

INFORMATION SHEET

PRESIDING: Chair Mitchell, Presiding; Commissioners Brown-Bland, Gray, Clodfelter, Duffley, Hughes and McKissick

PLACE: Via Videoconference

DATE: Thursday, September 9, 2021

TIME: 2:00 p.m. – 4:33 p.m.

DOCKET NOS.: G-9, Subs 722, 781, and 786

COMPANY: Piedmont Natural Gas Company, Inc.

DESCRIPTION: G-9, Sub 722: Consolidated Natural Gas Construction and Redelivery Services Agreement Between Piedmont Natural Gas Company, Inc., and Duke Energy Carolinas, LLC;

G-9, Sub 781: Application of Piedmont Natural Gas Company, Inc., for an Adjustment of Rates, Charges, and Tariffs Applicable to Service in North Carolina;

G-9, Sub 786: Application of Piedmont Natural Gas Company, Inc., for Modification to Existing Energy Efficiency Program and Approval of New Energy Efficiency Programs

VOLUME NUMBER: 4

APPEARANCES

(See attached)

WITNESSES

(See attached)

EXHIBITS

(See attached)

REPORTED BY: Joann Bunze
TRANSCRIBED BY: Joann Bunze
DATE FILED: September 14, 2021

TRANSCRIPT PAGES: 142
PREFILED PAGES: 415
TOTAL PAGES: 557

PLACE: Via Videoconference
DATE: Thursday, September 9, 2021
TIME: 2:00 p.m. - 4:33 p.m.
BEFORE: Chair Charlotte A. Mitchell, Presiding
Commissioner ToNola D. Brown-Bland
Commissioner Lyons Gray
Commissioner Daniel G. Clodfelter
Commissioner Kimberly W. Duffley
Commissioner Jeffrey A. Hughes
Commissioner Floyd B. McKissick, Jr.

IN THE MATTER OF:

G-9, Sub 722

Consolidated Natural Gas Construction and Redelivery
Services Agreement Between Piedmont Natural Gas
Company, Inc., and Duke Energy Carolinas, LLC;

G-9, Sub 781

Application of Piedmont Natural Gas Company, Inc.,
for an Adjustment of Rates, Charges, and Tariffs
Applicable to Service in North Carolina; and

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Modification to Existing Energy Efficiency Program and
Approval of New Energy Efficiency Programs

VOLUME: 4

A P P E A R A N C E S:

FOR PIEDMONT NATURAL GAS COMPANY, INC.:

Amanda Johnson Demopoulos, Esq.

Associate General Counsel

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Charlotte, North Carolina 28210

Brian S. Heslin, Esq.

Deputy General Counsel

Duke Energy Corporation

550 South Tryon Street

Charlotte, North Carolina 28202

James H. Jeffries, IV, Esq.

McGuireWoods LLP

201 North Tryon Street, Suite 3000

Charlotte, North Carolina 28202

CAROLINA UTILITY CUSTOMERS ASSOCIATION:

Marcus Trathen, Esq.

Craig D. Schauer, Esq.

Brooks Pierce

150 Fayetteville Street, Suite 1700

Raleigh, North Carolina 27601

1 A P P E A R A N C E S (Continued):

2 FOR CAROLINA INDUSTRIAL GROUP FOR FAIR UTILITY RATES

3 IV:

4 Christina D. Cress, Esq.

5 Patrick T. Buffkin, Esq.

6 Bailey & Dixon, LLP

7 434 Fayetteville Street, Suite 2500

8 Raleigh, North Carolina 27601

10 FOR DUKE ENERGY CAROLINAS, LLC:

11 Robert W. Kaylor, Esq.

12 Law Office of Robert W. Kaylor, P.A.

13 353 East Six Forks Road, Suite 260

14 Raleigh, North Carolina 27609

16 FOR FAYETTEVILLE PUBLIC WORKS COMMISSION:

17 James West, Esq.

18 General Counsel

19 Dustin Doty, Esq.

20 Staff Counsel

21 955 Old Wilmington Road

22 Fayetteville, North Carolina 28301

A P P E A R A N C E S (Continued):
FOR THE USING AND CONSUMING PUBLIC AND THE STATE OF
NORTH CAROLINA AND ITS CITIZENS:

Margaret A. Force, Esq.
Special Deputy Attorney General
Teresa L. Townsend, Esq.
Special Deputy Attorney General
North Carolina Department of Justice
Post Office Box 629
Raleigh, North Carolina 27602

FOR THE USING AND CONSUMING PUBLIC:
Elizabeth D. Culpepper, Esq.
Megan Jost, Esq.
Lucy E. Edmondson, Esq.
Public Staff - North Carolina Utilities Commission
4326 Mail Service Center
Raleigh, North Carolina 27699-4300

T A B L E O F C O N T E N T S
E X A M I N A T I O N S

3	HERBERT LEE MITCHELL, IV	PAGE
4	Direct Examination By Mr. Kaylor.....	11
5	Prefiled Direct Testimony.....	12
6	Examination By Chair Mitchell.....	24
7	KEVIN W. O'DONNELL	PAGE
8	Direct Examination By Mr. Schauer.....	28
9	Prefiled Direct Testimony and Appendix A.....	29
10	NICHOLAS PHILLIPS, JR	PAGE
11	Direct Examination By Ms. Cress.....	133
12	Prefiled Direct Testimony.....	136
13	Prefiled Errata.....	136
14	JOHN R. HINTON	PAGE
15	Direct Examination By Ms. Edmondson.....	190
16	Prefiled Direct Testimony and.....	193
17	Appendices A and B	
18	Prefiled Errata.....	193
19	Prefiled Settlement Testimony.....	193
20	NEHA PATEL	PAGE
21	Direct Examination By Ms. Jost.....	265
22	Prefiled Direct Testimony and Appendix A.....	267
23	DUSTIN R. METZ	PAGE
24	Direct Examination By Ms. Jost.....	301

		Page 6
1	Prefiled Direct Testimony and Appendix A.....	303
2	Prefiled Supplemental Testimony.....	303
3	Examination By Commissioner Duffley.....	340
4	Examination By Chair Mitchell.....	342
5	LYNN FEASEL	PAGE
6	Direct Examination By Ms. Culpepper.....	345
7	Prefiled Direct Testimony and Appendix A.....	346
8	MARY A. COLEMAN	PAGE
9	Direct Examination By Ms. Culpepper.....	359
10	Prefiled Direct Testimony and Appendix A.....	360
11	JULIE G. PERRY	PAGE
12	Direct Examination By Ms. Culpepper.....	372
13	Prefiled Direct Testimony and Appendix A.....	374
14	Prefiled Supplemental Testimony.....	407
15	Prefiled Settlement Testimony.....	407
16	Cross Examination By Mr. Jeffries.....	414
17	Examination By Commissioner Duffley.....	439
18	Examination By Commissioner Hughes.....	443
19	Examination By Commissioner Duffley.....	446
20	Examination By Chair Mitchell.....	447
21	Examination By Commissioner Hughes.....	449
22	Examination By Commissioner Brown-Bland.....	451
23		
24		

Page 7

PANEL OF

PAGE

JACK L. FLOYD, JAMES M. SINGER,
AND DAVID M. WILLIAMSON

Direct Examination By Ms. Edmondson..... 467

Prefiled Direct Testimony and Appendix A of ... 470
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Appendices A and B of James M. Singer and
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Examination By Commissioner Duffley..... 515

ADAM LONG PAGE

Direct Examination By Mr. Heslin..... 518

Prefiled Rebuttal Testimony..... 520

Prefiled Supplemental Testimony..... 520

Examination By Commissioner McKissick..... 543

Redirect Examination By Mr. Heslin..... 548

E X H I B I T S

IDENTIFIED/ADMITTED

1		
2		
3	Exhibits KWO-1 through KWO-7.....	131/132
4	Exhibits NP-1 through NP-6.....	183/189
5	Hinton Exhibits 1 through 3.....	193/264
6	Confidential Hinton Exhibit 4.....	193/264
7	Hinton Exhibits 5 through 12.....	193/264
8	Hinton Settlement Exhibit 1.....	193/264
9	Patel Exhibits I through III.....	266/301
10	Metz Exhibit 1.....	303/344
11	Confidential Metz Exhibit 2.....	303/344
12	Metz Exhibits 3 through 5.....	303/344
13	Coleman Exhibit 1.....	360/371
14	Perry Exhibits I through III.....	406/465
15	Confidential Perry Exhibit IV.....	406/465
16	Perry Exhibit V.....	406/465
17	Confidential Perry Exhibit VI.....	406/465
18	Perry Exhibit VII.....	406/465
19	Confidential Perry Exhibit VIII.....	406/465
20	Perry Settlement Exhibit I.....	413/465
21	Piedmont's Application, Updated	-/552
22	Appendix 1, and G-1 Items 1 through	
23	3, Confidential G-1 Item 4, G-1	
24	Items 5 through 10, Confidential	
	G-1 Items 11 and 12, G-1 Item 13,	
	Confidential G-1 Item 14, and G-1	
	Items 15 through 40	

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4720 Piedmont Row Drive

Charlotte, North Carolina 28210

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Deputy General Counsel

Duke Energy Corporation

550 South Tryon Street

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201 North Tryon Street, Suite 3000

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7 434 Fayetteville Street, Suite 2500

8 Raleigh, North Carolina 27601

10 FOR DUKE ENERGY CAROLINAS, LLC:

11 Robert W. Kaylor, Esq.

12 Law Office of Robert W. Kaylor, P.A.

13 353 East Six Forks Road, Suite 260

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16 FOR FAYETTEVILLE PUBLIC WORKS COMMISSION:

17 James West, Esq.

18 General Counsel

19 Dustin Doty, Esq.

20 Staff Counsel

21 955 Old Wilmington Road

22 Fayetteville, North Carolina 28301

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Page 7

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PAGE

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**NORTH CAROLINA UTILITIES COMMISSION
APPEARANCE SLIP**

DATE: September 7, 2021 DOCKET NO.: G-9, Subs 722, 781, & 786

ATTORNEY NAME and TITLE: Patrick T. Buffkin, Associate

FIRM NAME: Bailey & Dixon, LLP

ADDRESS: 434 Fayetteville St # 2500

CITY: Raleigh

STATE: NC

ZIP CODE: 27601

APPEARANCE ON BEHALF OF: Carolina Industrial Group for Fair Utility
Rates IV (CIGFUR IV)

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: X

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to <https://ncuc.net>, hover over the Dockets tab and select Docket Search, enter the docket number and click search, select the highlighted docket number and select Documents for a list of all documents filed.

To receive an electronic **CONFIDENTIAL** transcript, please complete the following:

☒ Yes, I have signed the Confidentiality Agreement.

Email: pbuffkin@bdixon.com

SIGNATURE: 

(Required for distribution of CONFIDENTIAL transcript)

**NORTH CAROLINA UTILITIES COMMISSION
APPEARANCE SLIP**

DATE: September 7, 2021 DOCKET NO.: G-9, Subs 722, 781, & 786

ATTORNEY NAME and TITLE: Christina D. Cress, Of Counsel

FIRM NAME: Bailey & Dixon, LLP

ADDRESS: 434 Fayetteville St # 2500

CITY: Raleigh

STATE: NC

ZIP CODE: 27601

APPEARANCE ON BEHALF OF: Carolina Industrial Group for Fair Utility Rates IV (CIGFUR IV)

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: X

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to <https://ncuc.net>, hover over the Dockets tab and select Docket Search, enter the docket number and click search, select the highlighted docket number and select Documents for a list of all documents filed.

To receive an electronic **CONFIDENTIAL** transcript, please complete the following:

☒ **Yes, I have signed the Confidentiality Agreement.**

Email: ccress@bdixon.com

SIGNATURE: /s/ Christina D. Cress

(Required for distribution of CONFIDENTIAL transcript)

NORTH CAROLINA UTILITIES COMMISSION
APPEARANCE SLIP

DATE: 09/01/2021 DOCKET NO.: G-9, Subs 722, 781, 786
ATTORNEY NAME and TITLE: Dustin Doty, Staff Counsel

FIRM NAME: _____

ADDRESS: 955 Old Wilmington Road

CITY: Fayetteville STATE: NC ZIP CODE: 28301

APPEARANCE ON BEHALF OF: Fayetteville Public Works Commission

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: X

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

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**NORTH CAROLINA UTILITIES COMMISSION
APPEARANCE SLIP**

OFFICIAL COPY

Sep 15 2021

DATE: _____ DOCKET NO.: _____

ATTORNEY NAME and TITLE: _____

FIRM NAME: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP CODE: _____

APPEARANCE ON BEHALF OF: _____

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: ___

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

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SIGNATURE: _____

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NORTH CAROLINA UTILITIES COMMISSION
APPEARANCE SLIP

DATE: Sept 9, 2021 DOCKET NO.: 6-9, Sub 722
ATTORNEY NAME and TITLE: Robert W. Kaylor
Attorney for Duke Energy Carolinas, LLC
FIRM NAME: Kaylor Law Firm
ADDRESS: 353 E. Six Forks Rd., Ste 260
CITY: Raleigh STATE: NC ZIP CODE: 27609
APPEARANCE ON BEHALF OF: Duke Energy Carolinas

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: ☒
PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to <https://ncuc.net>, hover over the Dockets tab and select Docket Search, enter the docket number and click search, select the highlighted docket number and select Documents for a list of all documents filed.

To receive an electronic CONFIDENTIAL transcript, please complete the following:

☒ Yes, I have signed the Confidentiality Agreement. * 6-9 Sub 722 only

Email: bkaylor@rwlw.com

SIGNATURE: RW Kaylor

(Required for distribution of CONFIDENTIAL transcript)

NORTH CAROLINA UTILITIES COMMISSION
APPEARANCE SLIP

DATE: 9/2/2021 **DOCKET NO.:** G-9, Sub 781

ATTORNEY NAME and TITLE: Margaret A. Force, Special Deputy Attorney General

FIRM NAME: NC Department of Justice

ADDRESS: P.O. Box 629

CITY: Raleigh **STATE:** NC **ZIP CODE:** 27602

APPEARANCE ON BEHALF OF: the using and consuming public and the State of North Carolina and its citizens.

APPLICANT: **COMPLAINANT:** **INTERVENOR:** ☒

PROTESTANT: **RESPONDENT:** **DEFENDANT:**

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to <https://ncuc.net>, hover over the Dockets tab and select Docket Search, enter the docket number and click search, select the highlighted docket number and select Documents for a list of all documents filed.

To receive an electronic **CONFIDENTIAL** transcript, please complete the following:

☒ **Yes, I have signed the Confidentiality Agreement.**

Email: Pforce@ncdoj.gov

SIGNATURE: /s/ Margaret A. Force

(Required for distribution of CONFIDENTIAL transcript)

NORTH CAROLINA UTILITIES COMMISSION
PUBLIC STAFF - APPEARANCE SLIP

DATE Sept. 7, 2021 DOCKET#: G-9, Subs 722, 781 & 786

PUBLIC STAFF ATTORNEY Elizabeth D. Culpepper
Megan Jost
Lucy E. Edmondson

TO REQUEST A **CONFIDENTIAL** TRANSCRIPT, PLEASE PROVIDE YOUR
EMAIL ADDRESS BELOW:

ACCOUNTING _____

CONSUMER SERVICES _____

COMMUNICATIONS _____

ENERGY _____

ECONOMICS _____

LEGAL elizabeth.culpepper@psncuc.nc.gov

megan.jost@psncuc.nc.gov

lucy.edmondson@psncuc.nc.gov

TRANSPORTATION _____

WATER _____

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Commission's website. To view and/or print, please
access <https://ncuc.net>.

COUNSEL/MEMBER(s) REQUESTING A **CONFIDENTIAL** TRANSCRIPT
WHO HAS SIGNED A CONFIDENTIALITY AGREEMENT WILL NEED TO
SIGN BELOW.

Elizabeth D. Culpepper
s/Elizabeth D. Culpepper
Signature of Public Staff Attorney

Megan Jost
s/Megan Jost
Signature of Public Staff Attorney

Lucy E. Edmondson
s/Lucy E. Edmondson
Signature of Public Staff Attorney

NORTH CAROLINA UTILITIES COMMISSION
APPEARANCE SLIP

DATE: 8/31/21 DOCKET NO.: G-9, Subs 722, 781, 786

ATTORNEY NAME and TITLE: Craig D Schaner

FIRM NAME: Brooks Pierce

ADDRESS: 150 Fayetteville St, Suite 1700

CITY: Raleigh STATE: NC ZIP CODE: 27601

APPEARANCE ON BEHALF OF: Carolina Utility Customers Association

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: X

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

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To receive an electronic **CONFIDENTIAL** transcript, please complete the following:

☒ Yes, I have signed the Confidentiality Agreement.

Email: cschaner@brookspierce.com

SIGNATURE: CDS

(Required for distribution of CONFIDENTIAL transcript)

NORTH CAROLINA UTILITIES COMMISSION
APPEARANCE SLIP

DATE: 8/31/21 DOCKET NO.: G-9, Subs 722, 781, 786

ATTORNEY NAME and TITLE: Marcus Trathen

FIRM NAME: Brooks Pierce

ADDRESS: 150 Fayetteville St, Suite 1700

CITY: Raleigh STATE: NC ZIP CODE: 27601

APPEARANCE ON BEHALF OF: Carolina Utility Customers Association

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: X

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

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☒ Yes, I have signed the Confidentiality Agreement.

Email: m.trathen@brookspierce.com

SIGNATURE: /s/ Marcus Trathen

(Required for distribution of CONFIDENTIAL transcript)

NORTH CAROLINA UTILITIES COMMISSION
APPEARANCE SLIP

DATE: 9/2/2021 **DOCKET NO.:** G-9, Sub 781

ATTORNEY NAME and TITLE: Teresa L. Townsend, Special Deputy Attorney General

FIRM NAME: NC Department of Justice

ADDRESS: P.O. Box 629

CITY: Raleigh **STATE:** NC **ZIP CODE:** 27602

APPEARANCE ON BEHALF OF: the using and consuming public and the State of North

Carolina and its citizens.

APPLICANT: ___ **COMPLAINANT:** ___ **INTERVENOR:** ✓

PROTESTANT: ___ **RESPONDENT:** ___ **DEFENDANT:** ___

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☒ **Yes, I have signed the Confidentiality Agreement.**

Email: TTownsend@ncdoj.gov

SIGNATURE: /s/ Teresa L. Townsend

(Required for distribution of CONFIDENTIAL transcript)

**NORTH CAROLINA UTILITIES COMMISSION
APPEARANCE SLIP**

DATE: 09/01/2021 DOCKET NO.: G-9, Sub 781

ATTORNEY NAME and TITLE: James West General Counsel

FIRM NAME: Fayetteville Public Works Commission

ADDRESS: 955 Old Wilmington Road

CITY: Fayetteville STATE: NC ZIP CODE: 28301

APPEARANCE ON BEHALF OF: Fayetteville Public Works Commission

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: ☒

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

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--/A
PIEDMONT NATURAL GAS COMPANY, INC.
DOCKET NO. G-9, SUB 781
GENERAL RATE CASE
MINIMUM FILING REQUIREMENTS
March 22, 2021

G-1, ITEM 30
Stockholder Reports

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SEP 13 2021

--/A
PIEDMONT NATURAL GAS COMPANY, INC.
DOCKET NO. G-9, SUB 781
GENERAL RATE CASE
MINIMUM FILING REQUIREMENTS
March 22, 2021

30. **Stockholder Reports.** Provide the three (3) most recent annual reports to stockholders, the three (3) most recent statistical supplements if not included in the annual reports, and subsequent quarterly reports to stockholders.

Response: Please see the attachment for a list of the reports provided among the 16 additional attachments.

- Annual Reports: 2017 - 2019
- Form 10-K: 2018 - 2020
- Form 10-Q: 2018 -2020

Name and title of Responsible Person: Quynh Bowman, Director – Gas Rates & Regulatory Strategy

Name and title of Preparer: Jenny Furr, Rates & Regulatory Strategy Manager

Piedmont Natural Gas Company, Inc.
Docket No. G-9, Sub 781
G-1, Item 30

TABLE OF CONTENTS

Attachment		SEC	
Number	ANNUAL REPORTS*	FILING DATE	Note
1	2017 Duke Energy Annual Report (includes 10KA)	N/A	This document was also filed in G-1 Item 30 in Docket No. G-9, Sub 743
2	2018 Duke Energy 10-K	2/28/2019	This document was also filed in G-1 Item 30 in Docket No. G-9, Sub 744
3	2018 Duke Energy Annual Report (includes 10K)	N/A	This document was also filed in G-1 Item 30 in Docket No. G-9, Sub 745
4	2019 Duke Energy 10-K	2/20/2020	
5	2019 Duke Energy Annual Report (includes 10K)	N/A	
6	2020 Duke Energy 10-K	2/25/2021	

*The 2020 Duke Energy Annual Report is not available as of the date of Piedmont's general rate case application filing date.

Attachment		SEC	
Number	QUARTERLY REPORTS	FILING DATE	
7	2018 Duke Energy Quarter 1 10-Q	5/10/2018	This document was also filed in G-1 Item 30 in Docket No. G-9, Sub 745
8	2018 Duke Energy Quarter 2 10-Q	8/2/2018	This document was also filed in G-1 Item 30 in Docket No. G-9, Sub 746
9	2018 Duke Energy Quarter 3 10-Q	11/2/2018	This document was also filed in G-1 Item 30 in Docket No. G-9, Sub 747
10	2019 Duke Energy Quarter 1 10-Q	5/9/2019	
11	2019 Duke Energy Quarter 2 10-Q	8/6/2019	
12	2019 Duke Energy Quarter 3 10-Q	11/8/2019	
13	2020 Duke Energy Quarter 1 10-Q	5/12/2020	
14	2020 Duke Energy Quarter 1 10-Q/A	6/2/2020	
15	2020 Duke Energy Quarter 2 10-Q	8/10/2020	
16	2020 Duke Energy Quarter 3 10-Q	11/5/2020	



*BUILDING A **SMARTER** ENERGY FUTURESM*

Lynn J. Good / Chairman, President and Chief Executive Officer



2017: A Year of Achievement

Dear Shareholder:

In a year with [record-setting storms](#), policy shifts and a dynamic regulatory environment, our ability to deliver on our promises was tested repeatedly. Time after time, we delivered for our customers and shareholders.

Today's Duke Energy is built to execute in years like these – proving our agility and commitment to our strategic vision.

With our [portfolio transition](#) complete, we operated in 2017 as a domestic, regulated energy infrastructure business with a clear growth plan. We shared our [long-term aspirations](#) on how we will [invest in our grid](#), [in cleaner energy](#) and [natural gas infrastructure](#) while improving customer satisfaction and modernizing regulatory constructs.

Over the course of the year, we made strong progress and built momentum for the future.

We announced our [Power/Forward Carolinas](#) grid modernization initiative and received approvals for the Atlantic Coast Pipeline. Our nuclear fleet continued to provide carbon-free, 24/7 power and, when combined with our renewable and natural gas investments, helped deliver affordable, clean energy to customers. And, we worked with stakeholders to create more modern regulatory constructs.

Meanwhile, our plants set [performance records](#) while our workforce continued to set the industry standard for safety and operational excellence. We also implemented innovative ways to run our company more efficiently, helping us deliver [strong financial results](#) while continuing to grow our dividend.

Progress like this was driven, as always, by our sense of responsibility to customers. That was especially true during Hurricane Irma – a historic storm that left millions without power in Florida and the Carolinas.

2017 was a strong year for Duke Energy. In this letter, you'll read more about our results. It's a story of resilience, determination and customer focus as our 29,000 employees continue to create a smarter energy future.

Meeting Our Financial Commitments

We entered 2017 with financial strength and continued to deliver positive results.

Our [adjusted diluted earnings](#) per share were \$4.57 – near the midpoint of our full-year guidance range. This result was supported by growth from our investments in our electric and natural gas businesses, including the full-year earnings contribution from Piedmont Natural Gas.

We reduced operation and maintenance costs in response to unfavorable weather early in the year and plan to keep these costs flat through 2022. Our efforts to instill cost agility and use new technology, without impacting operations, remain critical to our plans to grow and deliver strong financial results.

And 2018 marks the 92nd consecutive year we have paid a [quarterly dividend](#) – a hallmark pledge to our investors – and we remain committed to maintaining our annual dividend growth in line with earnings growth.

Last year, total shareholder return was 13.0 percent compared to 12.8 percent for the Philadelphia Utility Index. Utility share prices came under pressure in late 2017, and that continued in early 2018 due to rising interest rates and the impact of federal tax reform.

Tax reform provides our company a unique opportunity. It will allow us to reduce customer bills in the near term while also helping offset the cost of future investments. This ensures our customers receive the full benefit of the new law, which we support.

However, those customer benefits initially put pressure on our balance sheet. Therefore, across our states, we are working with regulators to [propose a variety of solutions](#) that balance returning savings to customers while preserving the financial strength of our utilities, which also benefits customers. Additionally, we took steps to support our balance sheet and fund our capital program given that the positive effects of tax reform on our business will take time to manifest.

This February, we announced our [2018 adjusted diluted earnings guidance range](#) of \$4.55 to \$4.85 per share. Our long-term growth rate remains at 4 to 6 percent, underpinned by our commitment to deliver strong results on [our \\$37 billion growth capital plan](#) over the next five years.

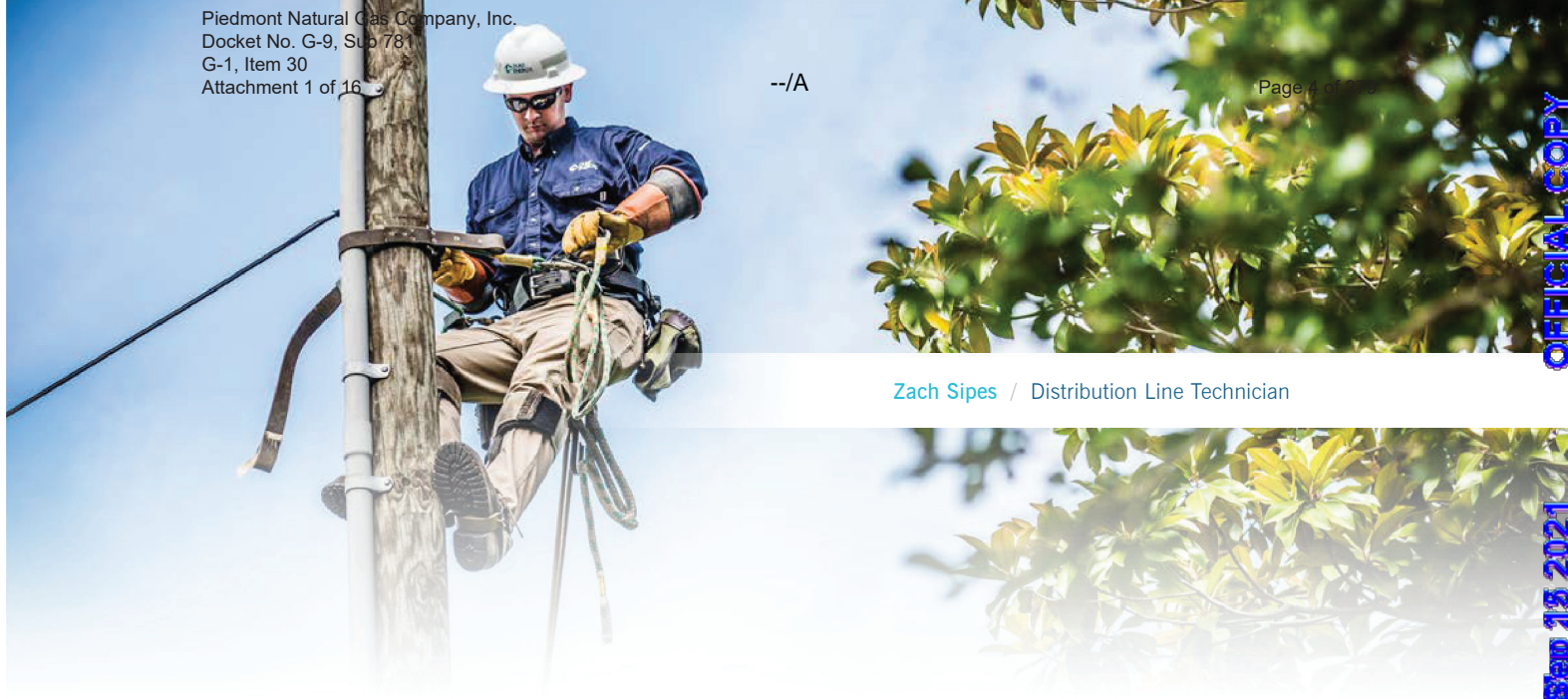
Duke Energy remains a premier, long-term investment due to our attractive dividend yield and low-risk earnings growth. Last year proved that we can respond to challenges and deliver on our strategy to continue returning value to our investors.

Executing Our Strategy

In 2017, we unveiled our [10-year vision](#) to modernize the grid, generate cleaner energy and expand our natural gas infrastructure while improving customer satisfaction and modernizing regulatory constructs through stakeholder engagement. And we spent the past year executing on it.



Tax reform provides our company a unique opportunity. It will allow us to reduce customer bills in the near term while also helping offset the cost of future investments.



Zach Sipes / Distribution Line Technician

Modernizing the Energy Grid

The [energy grid](#) powers nearly every part of our society. It powers lives and livelihoods, and serves as the foundation for transforming our customers' experience.

However, in some respects, the grid operates nearly the same as it did a century ago – as a [one-way road](#) sending electricity from power plants to customers. We are now at a turning point. With the right investments in technology, the grid can deliver more flexibility and functionality to our customers.

Last year, we announced a [\\$25 billion investment](#) to make our grid smarter, greener and more capable. So far, we've deployed [smart meters](#) to more customers, installed grid optimization technology and used data analytics to identify power lines to move underground.

Forty percent of our customers have [smart meters](#) – a key technology that enables more control for our customers. In 2017, we installed 1.2 million

meters and plan to install an additional 1.4 million meters in 2018, focusing deployments in the Carolinas and the Midwest.

Last year, we hardened the grid, making it more [resilient to storms and security threats](#). Already, we have made significant strides in Indiana and our Duke Energy Carolinas service territory. In 2018, we will begin major hardening and resiliency activities in Florida, Kentucky and our Duke Energy Progress service territory.

Our [self-healing technology](#) investments help improve reliability by detecting and rerouting power when a problem occurs. We have avoided more than 1.2 million power interruptions and saved customers 162 million outage minutes. As we continue to self-optimize our grid, we'll reduce more outages as intelligent systems and grid automation work together to reconfigure our system.



Forty percent of our customers have smart meters – a key technology that enables more control for our customers.

Our goal is to have 80 percent of customers serviced by a self-optimizing grid in the next decade.

In 2017, we used analytics to identify power lines that experience excessive power outages and require significant resources to maintain. We plan to move these lines underground to improve customers' experiences and make power restoration activities more efficient. The program will launch in Ohio, the Carolinas and Florida in 2018, with plans to deploy in Kentucky in 2019.

We have a call to action to deliver more reliable electricity and new services. Our investments in a more [intelligent, resilient grid](#) underpin our plans to meet customers' evolving needs.

Transforming the Customer Experience

In today's economy, customer expectations are set by innovators who create a personal connection, often through seamless digital and mobile capabilities. They make it easy to do business, giving customers the information they want – when and how they want it.

To meet these new expectations, we're building on [our grid modernization efforts](#) to transform the customer experience.

In 2017, we focused on providing our customers more information and options – including usage and [outage alerts](#), along with pick your own due date features. Many of these options were enabled by [smart meters](#).

We've also invested in a new customer information system – the backbone that allows us to tailor services for customers – and we look forward to advancing this project in 2018. And we began developing a mobile app to give customers personalized updates, more control and new ways to communicate with us.

Our customer-centric focus resulted in improved customer satisfaction. Our J.D. Power residential customer satisfaction scores improved compared to 2016 in all jurisdictions. Our goal is to move

the company into the top quartile, and our 2017 results show we are on the right track.

Customers want an experience that is consistent, individualized and responsive, and that's what we are focused on delivering.

Generating Cleaner Energy

We have a long-standing commitment to the environment and to lowering our carbon emissions – with results that prove it.

In April, we announced a new carbon emissions target. By 2030, we plan to reduce our carbon emissions by [40 percent from our 2005 levels](#).

To help us meet [this goal](#), we're targeting [\\$11 billion in investments](#) in natural gas generation and expanding our renewables portfolio.

Construction of our combined-cycle, natural gas-fired generation projects – W.S. Lee, Citrus County and Western Carolinas – continues to progress. The W.S. Lee project is near final commissioning and our Citrus County and Western Carolinas projects remain on track to begin commercial operation in 2018 and 2019, respectively.

Our natural gas generation complements our [expanding renewables portfolio](#). More and more, customers are looking at renewable energy to meet sustainability goals and provide cost-effective power.

Duke Energy is one of the nation's top renewable energy investors. We own more than 800 megawatts of solar power capacity and plan to procure more than 3,000 megawatts over the next five years. We also own and operate 2,300 megawatts of [wind power](#) and operate about 1,700 megawatts of [wind facilities](#) for third parties, including the first [U.S. offshore wind project](#).

In 2017, we connected [500 megawatts of new solar energy](#) in North Carolina, helping the state remain second in the nation for solar capacity. In addition, Duke Energy Kentucky entered the solar

Anthony Alston / Solar Technician / Kathleen Alexandridis / Engineer



Duke Energy is one of the nation's top renewable energy investors. We own more than 800 megawatts of solar power capacity and plan to procure more than 3,000 megawatts over the next five years.

market in 2017 as we [announced three projects](#) to bring customers 6.8 megawatts of solar energy.

In August, our commercial renewables business acquired the [Shoreham Solar Commons](#) project in New York, one of the state's largest solar projects. We announced our partnership with the Indiana National Guard to install battery storage and solar panels at [Camp Atterbury](#). We also announced a \$30 million investment to install the [two largest battery energy storage systems](#) in North Carolina.

Moving forward, we see new growth opportunities. In North Carolina, new legislation will lead to an additional 2,600 megawatts of competitively priced solar for the state. In [Florida](#), we plan to add [700 megawatts of utility-scale solar](#) as well as up to [50 megawatts of energy storage](#).

We are committed to a cleaner energy future, and we will continue our investments to deliver on it.

Building Our Natural Gas Infrastructure

October 2017 was the one-year anniversary of our [Piedmont Natural Gas](#) acquisition – one of the country's [most trusted utility brands](#). Already, we've seen the strength of our combined company.

We will continue to leverage Piedmont's expertise as we expand our natural gas infrastructure, doubling this segment's earnings contribution to [15 percent](#) in the next decade.

We are using overlap between our electric and natural gas businesses to better serve customers. In the past year, we announced dual-fuel projects at our Rogers, Belews Creek and Marshall Steam stations – a \$500 million investment that will reduce our carbon emissions and increase our flexibility to manage fuel costs.

Our midstream pipeline business is critical to serving customers, and we made significant progress in 2017.

Mill Creek Combustion Turbine Station / Cherokee County, SC

The Federal Energy Regulatory Commission (FERC) issued the final Environmental Impact Statement (EIS) in July for our [Atlantic Coast Pipeline](#) project, followed by the [final project certificate in October](#). In addition, we obtained water and air permits from West Virginia, Virginia and North Carolina. We began construction of this 600-mile pipeline in January 2018, staying on track for a late 2019 in-service date.

The [Sabal Trail pipeline](#) achieved commercial operation in July 2017, and it will serve our Citrus County combined-cycle natural gas plant in Florida when it comes online. A federal appeals court ordered FERC to review the project's EIS and in September, FERC issued a supplemental EIS, which is now final. In March 2018, FERC requested and the federal appeals court approved additional time to issue a new FERC order for the project. Sabal Trail anticipates normal pipeline operations will continue as it monitors any impact from this process.

Despite permitting challenges with our Constitution pipeline in New York, we remain committed to this project and the affordable natural gas it can bring to customers in the Northeast.

[Natural gas](#) is an important resource for the United States and one of the industry's greatest disrupters. Our expanding natural gas infrastructure will help us bring this lower-carbon fuel to more customers.

Engaging Stakeholders

2017 highlighted the value of stakeholder engagement in providing the best possible service to our customers and communities.

One of our long-term goals remains to modernize regulatory constructs in all of our jurisdictions, ensuring our ability to recover investments matches how we're investing in smarter energy solutions.

In Florida, the Public Service Commission [unanimously approved a settlement agreement](#) that extends our current multiyear rate plan to 2021. It includes nearly [\\$6 billion of investments](#), including solar energy, smart meters and grid modernization projects. In addition, the agreement provides for modern investment recovery while minimizing affects to customer bills.

We also worked with the Public Service Commission to apply federal tax reform savings toward [storm costs from Hurricane Irma](#), helping avoid customer rate increases.

In North Carolina, we worked with stakeholders and legislators to support [legislation](#), as mentioned earlier, that better positions the state for solar growth. The outcome was the product of years of work, and it sets a model for how we can pursue constructive outcomes.

We made progress working with our state commissions as we pursued [traditional rate cases](#) to recover investments while keeping rates affordable. And we established jurisdictional advisory councils to create dialogue that informs our business strategies.

To succeed, we need support from stakeholders who are willing to work together. In 2018 and beyond, we will continue to pursue solutions that make sense for customers and investors.

Constant Focus on Operational Excellence

Excellent operational performance is the linchpin for delivering on our financial, safety and environmental goals.

The ability to maintain the reliability of our fleet and grid in a safe and sustainable manner, while also preparing for emerging threats, directly influences relationships with customers and regulators, credibility with investors, and our reputation with stakeholders.

We continued to demonstrate our commitment to [safety](#) as a core principle. We improved our [industry-leading performance from 2016](#), further reducing our total incident case rate and OSHA-reportable employee safety incidents. As we integrated Piedmont Natural Gas, we've seen strong improvement in their safety performance, reducing incidents by 60 percent in the past year.

Safety is critical to maintaining reliable operations. Once again, our generation fleet delivered strong reliability metrics. Our nuclear fleet's [capacity factor](#) was 95.6 percent – nearly breaking

the company record set in 2016. With this performance, 2017 was the 19th consecutive year our capacity factor has been above 90 percent.

Our McGuire, Oconee and Brunswick nuclear stations achieved records for days of consecutive operations – with Oconee setting a new company record at 716 days. We also delivered strong refueling outage results, completing six outages almost 17 days ahead of our planned outage duration.

Our fossil/hydro organization continued to find flexible solutions while delivering reliable operations. In June, we announced an expansion at our [Lincoln Combustion Turbine Station](#), installing highly efficient natural gas turbines that deliver approximately 400 megawatts of peaking energy. This project offers significant cost savings to our customers and complements our renewable resources while lowering carbon emissions. In addition, [our Edwardsport gasified-coal plant](#) set continuous operation records and improved gasifier availability.

We delivered this performance while responding to record weather. In September, Hurricane Irma caused widespread damage across the Southeast. Our employees worked tirelessly to rebuild our system and restored power to 99 percent of affected customers in eight days.

But we also pride ourselves on identifying opportunities to improve. We were disappointed with aspects of our storm response, including communications on estimated times of restoration and the performance of certain outage-related systems. We have already taken steps to address these issues to serve customers better in the future.



We improved our industry-leading performance from 2016, further reducing our total incident case rate and OSHA-reportable employee safety incidents.



Last year, the Duke Energy Foundation donated more than \$33 million in charitable gifts to local organizations, and our employees and retirees volunteered over 115,000 hours.

To help those affected by hurricanes Irma, Harvey and Maria, our company matched employee and retiree donations for relief efforts, totaling more than \$225,000. And in early 2018, more than 200 employees volunteered to restore power to Puerto Rico following the devastation of Hurricane Maria.

In 2017, we showed our ongoing commitment to [environmental stewardship](#) as we [reduced reportable events](#) for the third straight year. We also made progress in [closing coal ash basins](#). Our basin excavation projects remained on track with over 7 million tons of ash removed last year, exceeding our goal. Across the system, scientific and engineering work continues to guide closure solutions. In addition, we announced [a third coal ash reprocessing location](#), which will make ash [suitable for use in concrete](#).

Our commitment to a cleaner, more sustainable energy future is evident by Duke Energy being named to the [Dow Jones Sustainability Index](#) for the 12th consecutive year. This continued recognition is underpinned by our unwavering focus on safety and operational excellence.

Engaging Employees and Creating Stronger Communities

We're also doing our part to support the [communities we serve](#) – and the places our 29,000 employees call home.

We're proud to work with communities and leaders to attract jobs and [economic development](#), continuing to strengthen our states. Last year, Duke Energy attracted \$5.9 billion in capital investment, helping create over 12,000 jobs.

For the 13th consecutive year, we were named to Site Selection magazine's annual list of [Top 10 Utilities in Economic Development](#).

But as we focus on creating jobs and attracting investments, we're just as focused on building and nurturing a diverse workforce that's ready to power our communities.

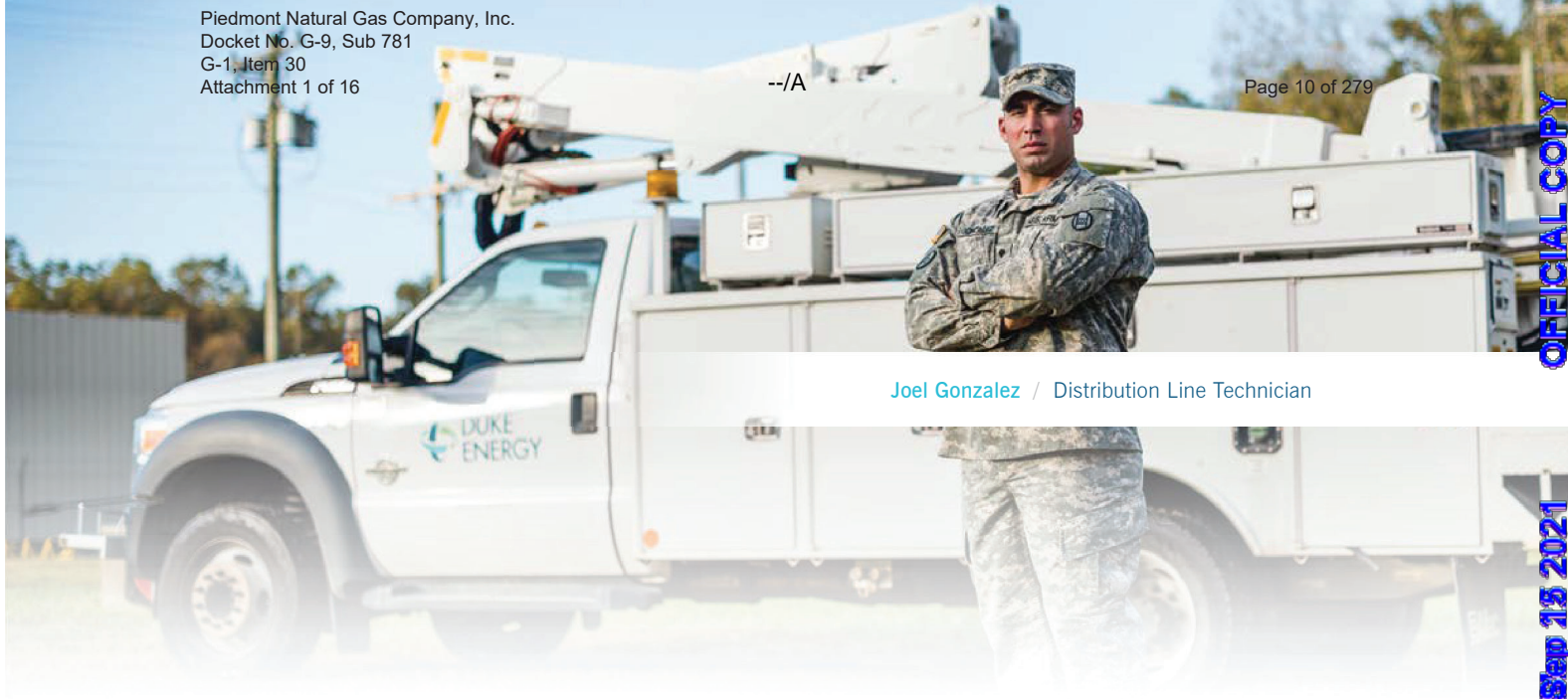
Last year, the [Duke Energy Foundation](#) donated more than \$33 million in charitable gifts to local organizations, and our employees and retirees volunteered over 115,000 hours. Our philanthropic investments continue to focus on [STEM](#) education and [workforce development](#), the [environment](#) and [community impact](#).

We believe workforce development starts as early as possible, and that's why our investments span [kindergarten](#) through [career](#).

In Florida, we invested in [Lake-Sumter State College's](#) energy technology programs, which train workers for in-demand energy industry jobs. In North Carolina, we worked with the Urban League of Central Carolinas to develop an eight-week course for students interested in entry-level utility positions.

As we develop the next generation of leaders, we need to be prepared for what's next. [Our employees](#) provide a competitive advantage as we transform to meet tomorrow's challenges. But like our business, our [workforce must evolve](#). This will require us to attract and retain diverse viewpoints.

[Diversity](#) is more than just race and gender. It's a mix of different points of view, work and life experiences, perspectives and cultures.



Joel Gonzalez / Distribution Line Technician

Last year, I signed the [CEO Action Pledge for Diversity and Inclusion](#), the largest CEO-driven business commitment to advance diversity and inclusion. We've launched [unconscious bias training](#) and created platforms for employees to have [difficult conversations](#) on issues impacting our communities. Duke Energy also received a perfect score from the [Human Rights Campaign](#) for our LGBT-friendly corporate practices and policies.

In the year ahead, we want to attract more diverse candidates. In particular, we're [committed to hiring veterans](#) – who possess the training and leadership qualities that transfer to our business. Last year, we hired 400 veterans and plan to fill 12 percent of our open positions with veterans moving forward.

The vitality of our communities and workforce is at the heart of our mission. Their strength will continue to be a priority for Duke Energy, as it has been for the past 114 years.

Building A Smarter Energy FutureSM

This year's annual report is my fifth as CEO. I'm proud of how far we've come in transforming our company and how we have responded to our customers' needs. And others see this progress too as Duke Energy was named to Fortune magazine's 2018 list of the [World's Most Admired Companies](#).

Awards like this are gratifying, but we know our work continues. That's why we're embracing change to continue delivering on our [purpose](#): to power the lives of our customers and vitality of our communities.

Few companies are more closely aligned with making a positive contribution to the economy and society. Our company is engaged on so many important policy issues – from the [environment](#) to [tax reform](#), [renewable energy](#), [corporate philanthropy](#), [diversity](#) and more – and we're pushing forward to find the right solutions.

The success of our company is inextricably linked with the [communities we serve](#). It's this spirit of engagement, collaboration and responsibility that has defined our success – and will continue to in the future.

As I look back on 2017, I remain as confident as ever in our vision for a smarter energy future and the strategy we're executing to get there.

Lynn J. Good
Chairman, President and Chief Executive Officer

March 9, 2018

Annual Meeting of Shareholders

Duke Energy's 2018 Annual Meeting of Shareholders will be:

Date: May 3, 2018

Time: 12:30 p.m. Eastern time

Visit: duke-energy.onlineshareholdermeeting.com

Audio broadcast: **800.239.9838**
conference number **7668330**

To participate in the online Annual Meeting, shareholders will need the 16-digit control number included in the Notice of Internet Availability of the Proxy Materials, on the proxy card and on the instructions that accompanied your proxy materials.

Shareholder Services

Shareholders may call **800.488.3853** or **704.382.3853** with questions about their stock accounts, legal transfer requirements, address changes or replacement dividend checks. Additionally, registered shareholders can view their account online through DUK-Online, available at duke-energy.com/investors. Send written requests to:

Investor Relations
Duke Energy
P.O. Box 1005
Charlotte, NC 28201

For electronic correspondence, visit duke-energy.com/investors.

Stock Exchange Listing

Duke Energy's common stock is listed on the New York Stock Exchange. The Corporation's common stock trading symbol is DUK.

Website Addresses

Corporate home page: duke-energy.com

Investor Relations: duke-energy.com/investors

InvestorDirect Choice Plan

The InvestorDirect Choice Plan provides a simple and convenient way to purchase common stock directly through the Corporations, without incurring brokerage fees. Purchases may be made weekly. Bank drafts for monthly purchases, as well as a safekeeping option for depositing certificates into the plan, are available.

The plan also provides for full reinvestment, direct deposit or cash payment of a portion of the dividends. Additionally, participants may register for DUK-Online, our online account management service.

Financial Publications

Duke Energy's Annual Report and related financial publications can be found on our website at duke-energy.com/investors. Printed copies are also available free of charge upon request.

Duplicate Mailings

If your shares are registered in different accounts, you may receive duplicate mailings of annual reports, proxy statements and other shareholder information. Call Investor Relations for instructions on eliminating duplications or combining your accounts.

Transfer Agent and Registrar

Duke Energy maintains shareholder records and acts as transfer agent and registrar for the Corporation's common stock.

Dividend Payment

Duke Energy has paid quarterly cash dividends on its common stock for 92 consecutive years. For the remainder of 2018, dividends on common stock are expected to be paid, subject to declaration by the Board of Directors, on **June 18**, **September 17** and **December 17**.

Bond Trustee

If you have questions regarding your bond account, call **800.254.2826**, or write to:

The Bank of New York Mellon
Global Trust Services
101 Barclay Street – 21st Floor
New York, NY 10286

Send Us Feedback

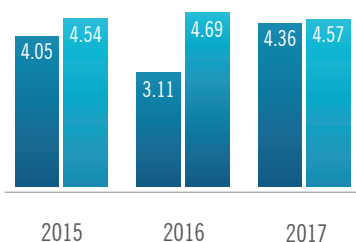
We welcome your opinion on this annual report. Please visit duke-energy.com/investors, where you can view and provide feedback on both the print and online versions of this report or contact Investor Relations directly. Duke Energy is an equal opportunity employer. This report is published solely to inform shareholders and is not to be considered an offer, or the solicitation of an offer, to buy or sell securities.

Our Financial Highlights^a

(In millions, except per share amounts)	2017	2016 ^b	2015 ^b
Operating Results			
Total operating revenues	\$23,565	\$22,743	\$22,371
Income from continuing operations	\$3,070	\$2,578	\$2,654
Net income	\$3,064	\$2,170	\$2,831
Cash Flow Data			
Net cash provided by operating activities	\$6,634	\$6,817	\$6,700
Common Stock Data			
Shares of common stock outstanding			
Year-end	700	700	688
Weighted average – basic and diluted	700	691	694
Reported diluted earnings per share (GAAP)	\$4.36	\$3.11	\$4.05
Adjusted diluted earnings per share (non-GAAP)	\$4.57	\$4.69	\$4.54
Dividends declared per share	\$3.49	\$3.36	\$3.24
Balance Sheet Data			
Total assets	\$137,914	\$132,761	\$121,156
Long-term debt including capital leases, less current maturities	\$49,035	\$45,576	\$36,842
Total Duke Energy Corporation stockholders' equity	\$41,739	\$41,033	\$39,727

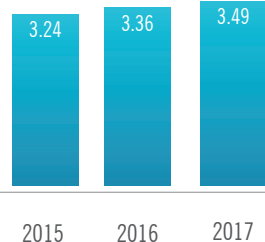
Earnings Per Share

(in dollars) ■ Reported Diluted ■ Adjusted Diluted



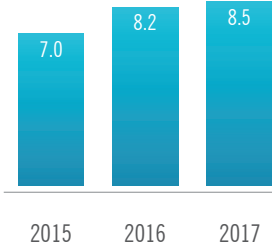
Dividends Declared Per Share

(in dollars)



Capital and Investment Expenditures

(dollars in billions)



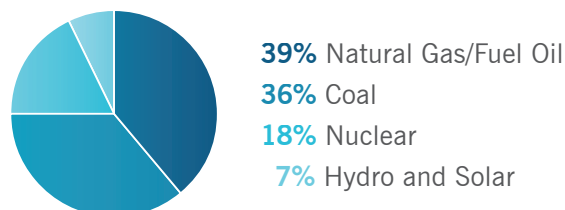
^aSignificant transactions reflected in the results above include: (i) the sale of the International Disposal Group in 2016, including a loss on sale recorded within discontinued operations (see Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions"); (ii) the acquisition of Piedmont in 2016, including losses on interest rate swaps related to the acquisition financing (see Note 2); and (iii) costs to achieve mergers in all periods.

^bPrior year data has been recast to reflect the classification of the International Disposal Group as discontinued operations and to reflect the impacts of new accounting standards.

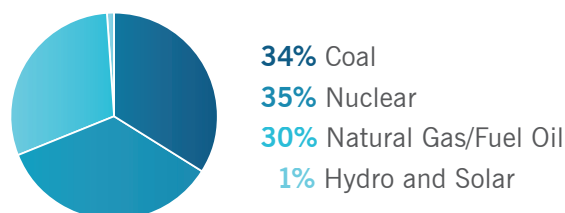
Duke Energy At A Glance

Electric Utilities and Infrastructure

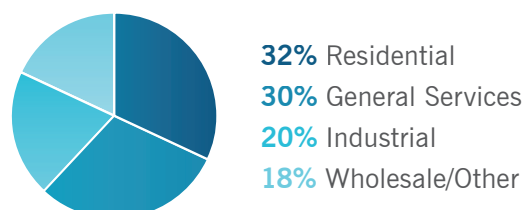
Generation Diversity (percent owned capacity)¹



Generated (net output gigawatt-hours (GWh))²



Customer Diversity (in billed GWh sales)²



Electric Utilities and Infrastructure conducts operations primarily through the regulated public utilities of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida, Duke Energy Indiana and Duke Energy Ohio.

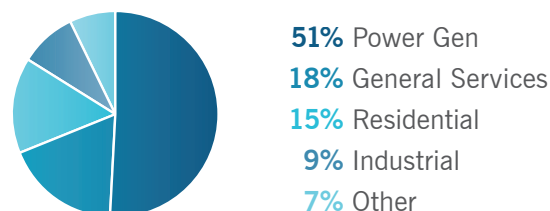
Electric Operations

- Owns approximately 49,500 megawatts (MW) of generating capacity
- Service area covers about 95,000 square miles with an estimated population of 24 million
- Service to approximately 7.6 million residential, commercial and industrial customers
- 277,100 miles of distribution lines and a 31,900-mile transmission system

Natural Gas Customer Diversity

Gas Utilities and Infrastructure conducts natural gas distribution operations primarily through the regulated public utilities of Piedmont Natural Gas and Duke Energy Ohio.

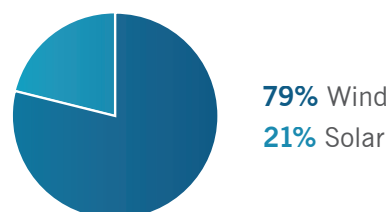
Natural Gas Operations (throughput)²



- Regulated natural gas transmission and distribution services to approximately 1.5 million customers in the Carolinas, Tennessee, southwestern Ohio and Northern Kentucky
- Maintains more than 33,100 miles of natural gas transmission and distribution pipelines and 27,400 miles of natural gas service pipelines

Duke Energy Renewables

Generation Diversity (percent owned capacity)¹



Duke Energy Renewables primarily acquires, develops, builds and operates wind and solar renewable generation throughout the continental U.S. The portfolio includes nonregulated renewable energy and energy storage assets.

Duke Energy Renewables, part of the Commercial Renewables business segment, includes utility-scale wind and solar generation assets that total 2,907 MW across 14 states from 21 wind and 63 solar projects. The power produced from renewable generation is primarily sold through long-term contracts to utilities, electric cooperatives, municipalities and commercial and industrial customers.

As part of its growth strategy, Duke Energy Renewables has expanded its investment portfolio through the addition of distributed solar companies and projects, energy storage systems and energy management solutions specifically tailored to commercial businesses and other institutions.

¹ As of December 31, 2017. | ² For the year ended December 31, 2017.

DUKE ENERGY CORPORATION

2017
Form 10-K/A

UNITED STATES SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549
FORM 10-K/A

Page 15 of 279

Amendment No. 1

(Mark One)



ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal period ended December 31, 2017 or



TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____ to _____

Commission file number	Registrant, State of Incorporation or Organization, Address of Principal Executive Offices and Telephone Number	IRS Employer Identification No.
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1-32853	DUKE ENERGY CORPORATION (a Delaware corporation) 550 South Tryon Street Charlotte, NC 28202-1803 704-382-3853	20-2777218
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Commission file number	Registrant, State of Incorporation or Organization, Address of Principal Executive Offices, Telephone Number and IRS Employer Identification Number	Commission file number	Registrant, State of Incorporation or Organization, Address of Principal Executive Offices, Telephone Number and IRS Employer Identification Number
1-4928	DUKE ENERGY CAROLINAS, LLC (a North Carolina limited liability company) 526 South Church Street Charlotte, North Carolina 28202-1803 704-382-3853 56-0205520	1-3274	DUKE ENERGY FLORIDA, LLC (a Florida limited liability company) 299 First Avenue North St. Petersburg, Florida 33701 704-382-3853 59-0247770
1-15929	PROGRESS ENERGY, INC. (a North Carolina corporation) 410 South Wilmington Street Raleigh, North Carolina 27601-1748 704-382-3853 56-2155481	1-1232	DUKE ENERGY OHIO, INC. (an Ohio corporation) 139 East Fourth Street Cincinnati, Ohio 45202 704-382-3853 31-0240030
1-3382	DUKE ENERGY PROGRESS, LLC (a North Carolina limited liability company) 410 South Wilmington Street Raleigh, North Carolina 27601-1748 704-382-3853 56-0165465	1-3543	DUKE ENERGY INDIANA, LLC (an Indiana limited liability company) 1000 East Main Street Plainfield, Indiana 46168 704-382-3853 35-0594457
1-6196	PIEDMONT NATURAL GAS COMPANY, INC. (a North Carolina corporation) 4720 Piedmont Row Drive Charlotte, North Carolina 28210 704-364-3120 56-0556998		

SECURITIES REGISTERED PURSUANT TO SECTION 12(b) OF THE ACT:

Registrant	Title of each class	Name of each exchange on which registered
Duke Energy Corporation (Duke Energy)	Common Stock, \$0.001 par value	New York Stock Exchange, Inc.
Duke Energy	5.125% Junior Subordinated Debentures due January 15, 2073	New York Stock Exchange, Inc.

SECURITIES REGISTERED PURSUANT TO SECTION 12(g) OF THE ACT: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act

Duke Energy	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Duke Energy Florida, LLC (Duke Energy Florida)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Duke Energy Carolinas, LLC (Duke Energy Carolinas)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Duke Energy Ohio, Inc. (Duke Energy Ohio)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Progress Energy, Inc. (Progress Energy)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Duke Energy Indiana, LLC (Duke Energy Indiana)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Duke Energy Progress, LLC (Duke Energy Progress)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Piedmont Natural Gas Company, Inc. (Piedmont)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Exchange Act. Yes ☐ No ☒ (Response applicable to all registrants.)

Indicate by check mark whether the registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months

(or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes ☒ No ☐

Indicate by check mark whether the registrants have submitted electronically and posted on their corporate website, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (\$232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes ☒ No ☐

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K. ☐ (Only applicable to Duke Energy)

Indicate by check mark whether Duke Energy is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one): Large accelerated filer ☒ Accelerated filer ☐ Non-accelerated filer ☐ Smaller reporting company ☐ Emerging growth company ☐

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised

financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont are large accelerated filers, accelerated filers, non-accelerated filers, or smaller reporting companies. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer ☐ Accelerated filer ☐ Non-accelerated filer ☒ Smaller reporting company ☐ Emerging growth company ☐

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised

financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether the registrants are a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes ☐ No ☒

Estimated aggregate market value of the common equity held by nonaffiliates of Duke Energy at June 30, 2017.

\$58,468,482,557

Number of shares of Common Stock, \$0.001 par value, outstanding at January 31, 2018.

700,092,667

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the Duke Energy definitive proxy statement for the 2018 Annual Meeting of the Shareholders or an amendment to this Annual Report are incorporated by reference into PART III, Items 10, 11 and 13 hereof. This combined Form 10-K is filed separately by eight registrants: Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont (collectively the Duke Energy Registrants). Information contained herein relating to any individual registrant is filed by such registrant solely on its own behalf. Each registrant makes no representation as to information relating exclusively to the other registrants.

Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont meet the conditions set forth in General Instructions I(1)(a) and (b) of Form 10-K and are, therefore, filing this Form 10-K with the reduced disclosure format specified in General Instructions I(2) of Form 10-K.

EXPLANATORY NOTE

Duke Energy Corporation and its subsidiaries (collectively, the "Company") filed its Annual Report on Form 10-K for the fiscal year ended December 31, 2017 (the "Original Filing") with the U.S. Securities and Exchange Commission (the "SEC") on February 21, 2018. The Company is filing this Amendment No. 1 (the "Amendment") to its Original Filing solely to revise two typographical errors as follows:

- A date contained in the REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM related to their Opinion on the Financial Statements. In that report, the date cross-referencing their Opinion on Internal Control over Financial Reporting was inadvertently referenced as February 23, 2018. The correct date of their Opinion on Internal Control over Financial Reporting is February 21, 2018. That error has been corrected in this Amendment.
- A date contained in the REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM related to their Opinion on Internal Control over Financial Reporting. In that report, the date cross-referencing their Opinion on the Financial Statements was inadvertently referenced as February 23, 2018. The correct date of their Opinion on the Financial Statements is February 21, 2018. That error has been corrected in this Amendment.

In addition, pursuant to the rules of the SEC, the exhibit list included in Item 15 of Part IV of the Original Filing has been amended to contain currently-dated certifications from the Company's Chief Executive Officer and Chief Financial Officer, as required by Sections 302 and 906 of the Sarbanes-Oxley Act of 2002. The certifications of the Company's Chief Executive Officer and Chief Financial Officer are attached as exhibits to this Amendment.

Except as described above, this Amendment does not amend or update any other information contained in the Original Filing. The Company has included a complete copy of the Original Filing, as amended per above, in this filing.

FORM 10-K FOR THE YEAR ENDED DECEMBER 31, 2017

Item	Page
CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING INFORMATION	
GLOSSARY OF TERMS	
PART I.	
1. BUSINESS	6
DUKE ENERGY	6
GENERAL	6
BUSINESS SEGMENTS	6
EMPLOYEES	14
EXECUTIVE OFFICERS OF THE REGISTRANTS	15
ENVIRONMENTAL MATTERS	15
DUKE ENERGY CAROLINAS	16
PROGRESS ENERGY	16
DUKE ENERGY PROGRESS	16
DUKE ENERGY FLORIDA	16
DUKE ENERGY OHIO	16
DUKE ENERGY INDIANA	16
PIEDMONT	17
1A. RISK FACTORS	17
1B. UNRESOLVED STAFF COMMENTS	23
2. PROPERTIES	23
3. LEGAL PROCEEDINGS	27
4. MINE SAFETY DISCLOSURES	27
PART II.	
5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES	28
6. SELECTED FINANCIAL DATA	30
7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS	30
7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK	65
8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA	66
9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE	226
9A. CONTROLS AND PROCEDURES	226
PART III.	
10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE	228
11. EXECUTIVE COMPENSATION	228
12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS	228
13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE	228
14. PRINCIPAL ACCOUNTING FEES AND SERVICES	229
PART IV.	
15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES	230
EXHIBIT INDEX	E-1
SIGNATURES	E-26

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING INFORMATION

This document includes forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. Forward-looking statements are based on management's beliefs and assumptions and can often be identified by terms and phrases that include "anticipate," "believe," "intend," "estimate," "expect," "continue," "should," "could," "may," "plan," "project," "predict," "will," "potential," "forecast," "target," "guidance," "outlook" or other similar terminology. Various factors may cause actual results to be materially different than the suggested outcomes within forward-looking statements; accordingly, there is no assurance that such results will be realized. These factors include, but are not limited to:

- State, federal and foreign legislative and regulatory initiatives, including costs of compliance with existing and future environmental requirements, including those related to climate change, as well as rulings that affect cost and investment recovery or have an impact on rate structures or market prices;

- The extent and timing of costs and liabilities to comply with federal and state laws, regulations and legal requirements related to coal ash remediation, including amounts for required closure of certain ash impoundments, are uncertain and difficult to estimate;
- The ability to recover eligible costs, including amounts associated with coal ash impoundment retirement obligations and costs related to significant weather events, and to earn an adequate return on investment through rate case proceedings and the regulatory process;
- The costs of decommissioning Crystal River Unit 3 and other nuclear facilities could prove to be more extensive than amounts estimated and all costs may not be fully recoverable through the regulatory process;
- Costs and effects of legal and administrative proceedings, settlements, investigations and claims;
- Industrial, commercial and residential growth or decline in service territories or customer bases resulting from sustained downturns of the economy and the economic health of our service territories or variations in customer usage patterns, including energy efficiency efforts and use of alternative energy sources, such as self-generation and distributed generation technologies;
- Federal and state regulations, laws and other efforts designed to promote and expand the use of energy efficiency measures and distributed generation technologies, such as private solar and battery storage, in Duke Energy service territories could result in customers leaving the electric distribution system, excess generation resources as well as stranded costs;
- Advancements in technology;
- Additional competition in electric and natural gas markets and continued industry consolidation;
- The influence of weather and other natural phenomena on operations, including the economic, operational and other effects of severe storms, hurricanes, droughts, earthquakes and tornadoes, including extreme weather associated with climate change;
- The ability to successfully operate electric generating facilities and deliver electricity to customers including direct or indirect effects to the company resulting from an incident that affects the U.S. electric grid or generating resources;
- The ability to complete necessary or desirable pipeline expansion or infrastructure projects in our natural gas business;
- Operational interruptions to our natural gas distribution and transmission activities;
- The availability of adequate interstate pipeline transportation capacity and natural gas supply;
- The impact on facilities and business from a terrorist attack, cybersecurity threats, data security breaches and other catastrophic events, such as fires, explosions, pandemic health events or other similar occurrences;
- The inherent risks associated with the operation of nuclear facilities, including environmental, health, safety, regulatory and financial risks, including the financial stability of third-party service providers;
- The timing and extent of changes in commodity prices and interest rates and the ability to recover such costs through the regulatory process, where appropriate, and their impact on liquidity positions and the value of underlying assets;
- The results of financing efforts, including the ability to obtain financing on favorable terms, which can be affected by various factors, including credit ratings, interest rate fluctuations, compliance with debt covenants and conditions and general market and economic conditions;
- Credit ratings of the Duke Energy Registrants may be different from what is expected;
- Declines in the market prices of equity and fixed-income securities and resultant cash funding requirements for defined benefit pension plans, other post-retirement benefit plans and nuclear decommissioning trust funds;
- Construction and development risks associated with the completion of the Duke Energy Registrants' capital investment projects, including risks related to financing, obtaining and complying with terms of permits, meeting construction budgets and schedules and satisfying operating and environmental performance standards, as well as the ability to recover costs from customers in a timely manner, or at all;
- Changes in rules for regional transmission organizations, including changes in rate designs and new and evolving capacity markets, and risks related to obligations created by the default of other participants;
- The ability to control operation and maintenance costs;
- The level of creditworthiness of counterparties to transactions;
- Employee workforce factors, including the potential inability to attract and retain key personnel;
- The ability of subsidiaries to pay dividends or distributions to Duke Energy Corporation holding company (the Parent);
- The performance of projects undertaken by our nonregulated businesses and the success of efforts to invest in and develop new opportunities;
- The effect of accounting pronouncements issued periodically by accounting standard-setting bodies;
- The impact of new U.S. tax legislation to our financial condition, results of operations or cash flows and our credit ratings;
- The impacts from potential impairments of goodwill or equity method investment carrying values;
- The ability to successfully complete future merger, acquisition or divestiture plans; and
- The ability to implement our business strategy.

Additional risks and uncertainties are identified and discussed in the Duke Energy Registrants' reports filed with the SEC and available at the SEC's website at www.sec.gov. In light of these risks, uncertainties and assumptions, the events described in the forward-looking statements might not occur or might occur to a different extent or at a different time than described. Forward-looking statements speak only as of the date they are made and the Duke Energy Registrants expressly disclaim an obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

Glossary of Terms

The following terms or acronyms used in this Form 10-K are defined below:

Term or Acronym	Definition	Term or Acronym	Definition
2013 Settlement	Revised and Restated Stipulation and Settlement Agreement approved in November 2013 among Duke Energy Florida, the Florida OPC and other customer advocates	CCS	Carbon Capture and Storage
the 2015 Plan	Duke Energy Corporation 2015 Long-Term Incentive Plan	CEPCPN	Certificate of Environmental Compatibility and Public Convenience and Necessity
2017 Settlement	Second Revised and Restated Settlement Agreement in 2017 among Duke Energy Florida, the Florida OPC and other customer advocates, which replaces and supplants the 2013 Settlement	CEO	Chief Executive Officer
ACP	Atlantic Coast Pipeline, LLC, a limited liability company owned by Dominion, Duke Energy and Southern Company Gas	CertainTeed	CertainTeed Gypsum NC, Inc.
ACP Pipeline	The approximately 600-mile proposed interstate natural gas pipeline	Cinergy	Cinergy Corp. (collectively with its subsidiaries)
ADIT	Net Accumulated Deferred Income Tax	CO ₂	Carbon Dioxide
AFUDC	Allowance for funds used during construction	Coal Ash Act	North Carolina Coal Ash Management Act of 2014
the Agents	Wells Fargo Securities, LLC, Citigroup Global Market Inc., J.P. Morgan Securities, LLC	COL	Combined Operating License
ALJ	Administrative Law Judge	the Company	Duke Energy Corporation and its subsidiaries
Amended Complaint	Amended Verified Consolidated Shareholder Derivative Complaint	Consolidated Complaint	Corrected Verified Consolidated Shareholder Derivative Complaint
AMI	Advanced Metering Infrastructure	Constitution	Constitution Pipeline Company, LLC
ANPRM	Advance Notice of Proposed Rulemaking	COSO	Committee of Sponsoring Organizations of the Treadway Commission
AOCI	Accumulated Other Comprehensive Income (Loss)	CP	Capacity Performance
ARO	Asset Retirement Obligation	CPCN	Certificate of Public Convenience and Necessity
the ASR	Accelerated Stock Repurchase Program	CPP	Clean Power Plan
ASRP	Accelerated natural gas service line replacement program	CRC	Cinergy Receivables Company LLC
Audit Committee	Audit Committee of the Board of Directors	Crystal River Unit 3	Crystal River Unit 3 Nuclear Plant
Barclays	Barclays Capital Inc.	CSA	Comprehensive Site Assessment
BCWF	Benton County Wind Farm, LLC	CSAPR	Cross-State Air Pollution Rule
Beckjord	Beckjord Generating Station	CT	Combustion Turbine
Belews Creek	Belews Creek Steam Station	CTG	China Three Gorges Energy S.à.r.l.
Bison	Bison Insurance Company Limited	CWA	Clean Water Act
Board of Directors	Duke Energy Board of Directors	DATC	Duke-American Transmission Co.
Bresalier Complaint	Shareholder derivative lawsuit filed by Saul Bresalier related to ash basin management practices	D.C. Circuit Court	U.S. Court of Appeals for the District of Columbia
Bresalier Defendants	Several current and former Duke Energy officers and directors named in the Bresalier Complaint	the Dealers	Goldman, Sachs & Co. and JPMorgan Chase Bank
Bridge Facility	\$4.9 billion senior secured financing facility with Barclays Capital Inc.	DEFPP	Duke Energy Florida Project Finance, LLC
Brunswick	Brunswick Nuclear Plant	DEFR	Duke Energy Florida Receivables, LLC
CAA	Clean Air Act	Deloitte	Deloitte & Touche LLP, and the member firms of Deloitte Touche Tohmatsu and their respective affiliates
Cardinal	Cardinal Pipeline Company, LLC	DEPR	Duke Energy Progress Receivables, LLC
Catawba	Catawba Nuclear Station	DERF	Duke Energy Receivables Finance Company, LLC
CC	Combined Cycle	DHHS	North Carolina Department of Health and Human Services
CCR	Coal Combustion Residuals	Directors' Savings Plan	Duke Energy Corporation Directors' Savings Plan
		DOE	U.S. Department of Energy
		DOJ	Department of Justice
		Dominion	Dominion Resources
		DRIP	Dividend Reinvestment Program
		DSM	Demand Side Management

Term or Acronym	Definition
Dth	Dekatherm
Duke Energy	Duke Energy Corporation (collectively with its subsidiaries)
Duke Energy Carolinas	Duke Energy Carolinas, LLC
Duke Energy Defendants	Several current and former Duke Energy officers and directors named as defendants in the Consolidated Complaint
Duke Energy Florida	Duke Energy Florida, LLC
Duke Energy Indiana	Duke Energy Indiana, LLC
Duke Energy Kentucky	Duke Energy Kentucky, Inc.
Duke Energy Ohio	Duke Energy Ohio, Inc.
Duke Energy Progress	Duke Energy Progress, LLC
Duke Energy Registrants	Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont
Dynegy	Dynegy Inc.
East Bend	East Bend Generating Station
the EDA	Equity Distribution Agreement
EE	Energy efficiency
EGU	Electric Generating Units
EIS	Environmental Impact Statement
ELG	Effluent Limitations Guidelines
EPA	U.S. Environmental Protection Agency
EPC	Engineering, Procurement and Construction agreement
EPS	Earnings Per Share
ESP	Electric Security Plan
ETR	Effective tax rate
Exchange Act	Exchange Act of 1934
FASB	Financial Accounting Standards Board
FERC	Federal Energy Regulatory Commission
Fitch	Fitch Ratings, Inc.
FirstEnergy	FirstEnergy Corp.
Florida OPC	Florida Office of Public Counsel
Form S-3	Registration statement
FP&L	Florida Power & Light Company
FPSC	Florida Public Service Commission
FRR	Fixed Resource Requirement
FTR	Financial transmission rights
GAAP	Generally Accepted Accounting Principles in the United States
GHG	Greenhouse Gas
GWh	Gigawatt-hours
Hardy Storage	Hardy Storage Company, LLC
Harris	Shearon Harris Nuclear Plant
Hines	Hines Energy Complex
I Squared	ISQ Enerlam Aggregator, L.P. and Enerlam Holding Ltd.
IBNR	Incurred but not yet reported
ICPA	Inter-Company Power Agreement
IGCC	Integrated Gasification Combined Cycle
IGCC Rider	Tracking mechanism used to recover costs related to the Edwardsport IGCC plant from retail electric customers

Term or Acronym	Definition
IGCC Settlement	2015 Settlement to resolve disputes with intervenors related to five IGCC riders
IMR	Integrity Management Rider
International Disposal Group	Duke Energy's international business, excluding National Methanol Company
IRP	Integrated Resource Plans
IRS	Internal Revenue Service
ISFSI	Independent Spent Fuel Storage Installation
ISO	Independent System Operator
ITC	Investment Tax Credit
IURC	Indiana Utility Regulatory Commission
Investment Trusts	Grantor trusts of Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana
JDA	Joint Dispatch Agreement
KO Transmission	KO Transmission Company
KPSC	Kentucky Public Service Commission
kV	Kilovolt
kWh	Kilowatt-hour
LDC	Local Distribution Company
Lee Nuclear Station	William States Lee III Nuclear Station
Legacy Duke Energy Directors	Members of the pre-merger Duke Energy Board of Directors
Levy	Duke Energy Florida's proposed nuclear plant in Levy County, Florida
LIBOR	London Interbank Offered Rate
Long-Term FERC Mitigation	The revised market power mitigation plan related to the Progress Energy merger
Master Trust	Duke Energy Master Retirement Trust
McGuire	McGuire Nuclear Station
Merger Agreement	The Agreement and Plan of Merger between Duke Energy and Piedmont
Merger Chancery Litigation	Four shareholder derivative lawsuits filed in the Delaware Chancery Court related to the Progress Energy merger
MGP	Manufactured gas plant
Midwest Generation Disposal Group	Duke Energy Ohio's nonregulated Midwest generation business and Duke Energy Retail Sales, LLC
MISO	Midcontinent Independent System Operator, Inc.
MMBtu	Million British Thermal Unit
MPP	Money Purchase Pension
Moody's	Moody's Investors Service, Inc.
MTBE	Methyl tertiary butyl ether
MTEP	MISO Transmission Expansion Planning
MW	Megawatt
MVP	Multi Value Projects
MWh	Megawatt-hour
NCDEQ	North Carolina Department of Environmental Quality (formerly the North Carolina Department of Environment and Natural Resources)
NCEMC	North Carolina Electric Membership Corporation
NCEMPA	North Carolina Eastern Municipal Power Agency
NCRC	Florida's Nuclear Cost Recovery Clause
NCRS	Nuclear Power Plant Cost Recovery Statutes
NCUC	North Carolina Utilities Commission
NDTF	Nuclear decommissioning trust funds

Term or Acronym	Definition
NEIL	Nuclear Electric Insurance Limited
New Source Review	New Source Review (NSR) is a CAA program that requires industrial facilities to install modern pollution control equipment when they are built or when making a change that increases emissions significantly
NYSDEC	New York State Department of Environmental Conservation
NMC	National Methanol Company
NOL	Net operating loss
NOV	Notice of violation
NO _x	Nitrogen oxide
NPDES	National Pollutant Discharge Elimination System
NPNS	Normal purchase/normal sale
NPR	Notice of Proposed Rulemaking
NRC	U.S. Nuclear Regulatory Commission
NWPA	Nuclear Waste Policy Act of 1982
NYSE	New York Stock Exchange
Oconee	Oconee Nuclear Station
OPEB	Other Post-Retirement Benefit Obligations
ORS	Office of Regulatory Staff
Osprey Plant acquisition	Duke Energy Florida's purchase of a Calpine Corporation's 599-MW combined-cycle natural gas plant in Auburndale, Florida
OTTI	Other-than-temporary impairment
OVEC	Ohio Valley Electric Corporation
the Parent	Duke Energy Corporation holding company
PCAOB	Public Company Accounting Oversight Board
PGA	Purchased Gas Adjustments
Phase I CCR Compliance Projects	Duke Energy Indiana's federally mandated compliance projects to comply with the EPA's CCR rule
Philadelphia Utility Index	Philadelphia Sector Index
PHMSA	Pipeline and Hazardous Materials Safety Administration
Piedmont	Piedmont Natural Gas Company, Inc.
Piedmont Pension Assets	Qualified pension plan assets associated with the Retirement Plan of Piedmont
Piedmont Term Loan	18-month term loan facility with commitments totaling \$250M entered in June 2017
Pine Needle	Pine Needle LNG Company, LLC
Pioneer	Pioneer Transmission, LLC
PJM	PJM Interconnection, LLC
PMPPA	Piedmont Municipal Power Agency
PPA	Purchase Power Agreement
Progress Energy	Progress Energy, Inc.
PSCSC	Public Service Commission of South Carolina
PTC	Production Tax Credits
PUCO	Public Utilities Commission of Ohio
PUCO Order	Order issued by PUCO approving a settlement of Duke Energy Ohio's natural gas base rate case and authorizing the recovery of certain MGP costs
PURPA	Public Utility Regulatory Policies Act of 1978

Term or Acronym	Definition
QF	Qualifying Facility
RCA	Revolving Credit Agreement
RCRA	Resource Conservation and Recovery Act
Relative TSR	TSR of Duke Energy stock relative to a predefined peer group
Robinson	Robinson Nuclear Plant
RRBA	Roanoke River Basin Association
RSU	Restricted Stock Unit
RTO	Regional Transmission Organization
Sabal Trail	Sabal Trail Transmission, LLC
Sabal Trail Pipeline	Sabal Trail Natural Gas Pipeline
SACE	Southern Alliance of Clean Energy
SAFSTOR	A method of decommissioning in which a nuclear facility is placed and maintained in a condition that allows the facility to be safely stored and subsequently decontaminated to levels that permit release for unrestricted use
S.C. Court of Appeals	Court of Appeals of South Carolina
SCCL	South Carolina Coastal Conservation League
SEC	Securities and Exchange Commission
SEIS	Supplemental Environmental Impact Statement
SELC	Southern Environmental Law Center
Segment Income	Income from continuing operations net of income attributable to noncontrolling interests
SO ₂	Sulfur dioxide
SouthStar	SouthStar Energy Services, LLC
Spectra Capital	Spectra Energy Capital, LLC
S&P	Standard & Poor's Rating Services
S&P 500	Standard & Poor's 500 Stock Index
SSO	Standard Service Offer
State Utility Commissions	NCUC, PSCSC, FPSC, PUCO, IURC, KPSC and TPUC (Collectively)
State Electric Utility Commissions	NCUC, PSCSC, FPSC, PUCO, IURC and KPSC (Collectively)
State Gas Utility Commissions	NCUC, PSCSC, PUCO, TPUC and KPSC (Collectively)
Subsidiary Registrants	Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont
Sutton	L.V. Sutton Combined Cycle Plant
the Tax Act	Tax Cut and Jobs Act
T&D Rider	Tracking mechanism to recover grid infrastructure improvement costs in Indiana
TPUC	Tennessee Public Utility Commission
TSR	Total shareholder return
Uprate Project	Hines Chiller Uprate Project
U.S.	United States
U.S. Court of Appeals	U.S. Court of Appeals for the Second Circuit
VEBA	Voluntary Employees' Beneficiary Association
VIE	Variable Interest Entity
WACC	Weighted Average Cost of Capital
WNA	weather normalization adjustment
WVPA	Wabash Valley Power Association, Inc.

PART I

ITEM 1. BUSINESS

DUKE ENERGY

General

Duke Energy Corporation (collectively with its subsidiaries, Duke Energy) was incorporated on May 3, 2005, and is an energy company headquartered in Charlotte, North Carolina, subject to regulation by the Federal Energy Regulatory Commission (FERC). Duke Energy operates in the United States (U.S.) primarily through its direct and indirect subsidiaries. Certain Duke Energy subsidiaries are also subsidiary registrants, including Duke Energy Carolinas, LLC (Duke Energy Carolinas); Progress Energy, Inc. (Progress Energy); Duke Energy Progress, LLC (Duke Energy Progress); Duke Energy Florida, LLC (Duke Energy Florida); Duke Energy Ohio, Inc. (Duke Energy Ohio); Duke Energy Indiana, LLC (Duke Energy Indiana) and Piedmont Natural Gas Company, Inc. (Piedmont). When discussing Duke Energy's consolidated financial information, it necessarily includes the results of its separate subsidiary registrants (collectively referred to as the Subsidiary Registrants), which along with Duke Energy, are collectively referred to as the Duke Energy Registrants.

Piedmont, a North Carolina corporation, is an energy services company whose principal business is the distribution of natural gas to over 1 million residential, commercial, industrial and power generation customers in portions of North Carolina, South Carolina and Tennessee, including customers served by municipalities who are Piedmont's sales for resale customers. In October 2016, Duke Energy completed the acquisition of Piedmont. Piedmont's earnings and cash flows are only included in Duke Energy's consolidated results subsequent to the acquisition date. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information regarding the acquisition.

In December 2016, Duke Energy completed an exit of the Latin American market to focus on its domestic regulated business, which was further bolstered by the acquisition of Piedmont. The sale of the International Energy business segment, excluding an equity method investment in National Methanol Company (NMC), was completed through two transactions including a sale of assets in Brazil to China Three Gorges (Luxembourg) Energy S.à.r.l. (CTG) and a sale of Duke Energy's remaining Latin American assets in Peru, Chile, Ecuador, Guatemala, El Salvador and Argentina to ISQ Enerlam Aggregator, L.P. and Enerlam (UK) Holding Ltd. (I Squared) (collectively, the International Disposal Group). See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information on the sale of International Energy.

The Duke Energy Registrants electronically file reports with the Securities and Exchange Commission (SEC), including Annual Reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, proxies and amendments to such reports.

The public may read and copy any materials the Duke Energy Registrants file with the SEC at the SEC's Public Reference Room at 100 F Street, NE, Washington, DC 20549. The public may obtain information on the operation of

the Public Reference Room by calling the SEC at 1-800-SEC-0330. The SEC also maintains an internet site that contains reports, proxy and information statements and other information regarding issuers that file electronically with the SEC at <http://www.sec.gov>. Additionally, information about the Duke Energy Registrants, including reports filed with the SEC, is available through Duke Energy's website at <http://www.duke-energy.com>. Such reports are accessible at no charge and are made available as soon as reasonably practicable after such material is filed with or furnished to the SEC.

Business Segments

Duke Energy's segment structure includes three reportable operating segments (business segments): Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables. The remainder of Duke Energy's operations is presented as Other. Duke Energy's chief operating decision-maker routinely reviews financial information about each of these business segments in deciding how to allocate resources and evaluate the performance of the business. For additional information on each of these business segments, including financial and geographic information, see Note 3 to the Consolidated Financial Statements, "Business Segments." The following sections describe the business and operations of each of Duke Energy's business segments, as well as Other.

ELECTRIC UTILITIES AND INFRASTRUCTURE

Electric Utilities and Infrastructure conducts operations primarily through the regulated public utilities of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida, Duke Energy Indiana and Duke Energy Ohio. Electric Utilities and Infrastructure provides retail electric service through the generation, transmission, distribution and sale of electricity to approximately 7.6 million customers within the Southeast and Midwest regions of the U.S. The service territory is approximately 95,000 square miles across six states with a total estimated population of 24 million people. The operations include electricity sold wholesale to municipalities, electric cooperative utilities and other load-serving entities. Electric Utilities and Infrastructure is also a joint owner in certain electric transmission projects. Electric Utilities and Infrastructure has a 50 percent ownership interest in Duke-American Transmission Co. (DATC), a partnership with American Transmission Company, formed to design, build and operate transmission infrastructure. DATC owns 72 percent of the transmission service rights to Path 15, an 84-mile transmission line in central California. Electric Utilities and Infrastructure also has a 50 percent ownership interest in Pioneer Transmission, LLC, which builds, owns and operates electric transmission facilities in North America.

The electric operations and investments in projects are subject to the rules and regulations of the FERC, the North Carolina Utilities Commission (NCUC), the Public Service Commission of South Carolina (PSCSC), the Florida Public Service Commission (FPSC), the Indiana Utility Regulatory Commission (IURC), the Public Utilities Commission of Ohio (PUCO) and the Kentucky Public Service Commission (KPSC).

The following table represents the distribution of billed sales by customer class for the year ended December 31, 2017.

	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Residential	30%	26%	49%	34%	26%
General service	33%	23%	37%	38%	25%
Industrial	25%	16%	8%	23%	32%
Total retail sales	88%	65%	94%	95%	83%
Wholesale and other sales	12%	35%	6%	5%	17%
Total sales	100%	100%	100%	100%	100%

PART I

The number of residential and general service customers within the Electric Utilities and Infrastructure service territory is expected to increase over time. While economic conditions within the service territory continue to improve, sales growth has been hampered by continued adoption of energy efficiencies and self-generation. The continued adoption of more efficient housing and appliances is expected to have a negative impact on average usage per residential customer over time. While residential sales increased in 2017 compared to 2016, the growth rate was modest when compared to historical periods.

Seasonality and the Impact of Weather

Revenues and costs are influenced by seasonal weather patterns. Peak sales of electricity occur during the summer and winter months, which results in higher revenue and cash flows during these periods. By contrast, lower sales of electricity occur during the spring and fall, allowing for scheduled plant maintenance. Residential and general service customers are more impacted by weather than industrial customers. Estimated weather impacts are based on actual current period weather compared to normal weather conditions. Normal weather conditions are defined as the long-term average of actual historical weather conditions.

The estimated impact of weather on earnings is based on the temperature variances from a normal condition and customers' historic usage patterns. The methodology used to estimate the impact of weather does not consider all variables that may impact customer response to weather conditions such as humidity in the summer or wind chill in the winter. The precision of this estimate may also be impacted by applying long-term weather trends to shorter-term periods.

Heating-degree days measure the variation in weather based on the extent the average daily temperature falls below a base temperature. Cooling-degree days measure the variation in weather based on the extent the average daily temperature rises above the base temperature. Each degree of temperature below the base temperature counts as one heating-degree day and each degree of temperature above the base temperature counts as one cooling-degree day.

Competition

Retail

Electric Utilities and Infrastructure's businesses operate as the sole supplier of electricity within their service territories, with the exception of Ohio, which has a competitive electricity supply market for generation service. Electric Utilities and Infrastructure owns and operates facilities necessary to transmit and distribute electricity and, except in Ohio, to generate electricity. Services are priced by state commission approved rates designed to include the costs of providing these services and a reasonable return on invested capital. This regulatory policy is intended to provide safe and reliable electricity at fair prices.

Competition in the regulated electric distribution business is primarily from the development and deployment of alternative energy sources including on-site generation from industrial customers and distributed generation, such as private solar, at residential, general service and/or industrial customer sites.

Duke Energy is not aware of any proposed legislation within any of its jurisdictions that would provide retail customers the right to choose their electricity provider or otherwise restructure or deregulate the electric industry, including broadly subsidizing distributed generation such as private solar.

Although there is no pending legislation at this time, if the retail jurisdictions served by Electric Utilities and Infrastructure become subject to deregulation, the recovery of stranded costs could become a significant consideration. Stranded costs primarily include the generation assets of Electric Utilities and Infrastructure whose value in a competitive marketplace may be less than their current book value, as well as above-market purchased power commitments from qualifying facilities (QFs). The Public Utility Regulatory Policies Act of 1978 (PURPA) established a new class of generating facilities

as QFs, typically small power production facilities that generate power within a utility company's service territory for which the utility companies are legally obligated to purchase the energy at an avoided cost rate. Thus far, all states that have passed restructuring legislation have provided for the opportunity to recover a substantial portion of stranded costs.

Electric Utilities and Infrastructure's largest stranded cost exposure is primarily related to Duke Energy Florida's purchased power commitments with QFs, under which it has future minimum expected capacity payments through 2043 of \$2.4 billion. Duke Energy Florida was obligated to enter into these contracts under provisions of PURPA. Duke Energy Florida continues to seek ways to address the impact of escalating payments under these contracts. However, the FPSC allows full recovery of the retail portion of the cost of power purchased from QFs. For additional information related to these purchased power commitments, see Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies."

In Ohio, Electric Utilities and Infrastructure conducts competitive auctions for electricity supply. The cost of energy purchased through these auctions is recovered from retail customers. Electric Utilities and Infrastructure earns retail margin in Ohio on the transmission and distribution of electricity and not on the cost of the underlying energy.

Wholesale

Duke Energy competes with other utilities and merchant generators for bulk power sales, sales to municipalities and cooperatives and wholesale transactions under primarily cost-based contracts approved by FERC. The principal factors in competing for these sales are price, availability of capacity and power and reliability of service. Prices are influenced primarily by market conditions and fuel costs.

Increased competition in the wholesale electric utility industry and the availability of transmission access could affect Electric Utilities and Infrastructure's load forecasts, plans for power supply and wholesale energy sales and related revenues. Wholesale energy sales will be impacted by the extent to which additional generation is available to sell to the wholesale market and the ability of Electric Utilities and Infrastructure to attract new customers and to retain existing customers.

Energy Capacity and Resources

Electric Utilities and Infrastructure owns approximately 49,506 megawatts (MW) of generation capacity. For additional information on owned generation facilities, see Item 2, "Properties."

Energy and capacity are also supplied through contracts with other generators and purchased on the open market. Factors that could cause Electric Utilities and Infrastructure to purchase power for its customers may include, but are not limited to, generating plant outages, extreme weather conditions, generation reliability, demand growth and price. Electric Utilities and Infrastructure has interconnections and arrangements with its neighboring utilities to facilitate planning, emergency assistance, sale and purchase of capacity and energy and reliability of power supply.

Electric Utilities and Infrastructure's generation portfolio is a balanced mix of energy resources having different operating characteristics and fuel sources designed to provide energy at the lowest possible cost to meet its obligation to serve retail customers. All options, including owned generation resources and purchased power opportunities, are continually evaluated on a real-time basis to select and dispatch the lowest-cost resources available to meet system load requirements.

Potential Plant Retirements

The Subsidiary Registrants periodically file Integrated Resource Plans (IRP) with state regulatory commissions. The IRPs provide a view of forecasted energy needs over a long term (10 to 20 years) and options being considered to meet those needs. Recent IRPs filed by the Subsidiary Registrants included

PART I

planning assumptions to potentially retire certain coal-fired generating facilities earlier than their current estimated useful lives, primarily because these facilities do not have the requisite emission control equipment to meet United States Environmental Protection Agency (EPA) regulations recently approved or proposed. Duke Energy continues to evaluate the potential need to retire these coal-fired generating facilities earlier than the current estimated useful lives and plans to seek regulatory recovery for amounts that would not be otherwise recovered when any of these assets are retired. For additional information related to potential plant retirements, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

On October 23, 2015, the EPA published in the Federal Register the final Clean Power Plan (CPP) rule that regulates carbon dioxide (CO₂) emissions from existing fossil fuel-fired electric generating units (EGUs). The CPP establishes CO₂ emission rates and mass cap goals that apply to existing fossil fuel-fired EGUs. Petitions challenging the rule were filed by several groups and on February 9, 2016, the Supreme Court issued a stay of the final CPP rule, halting implementation of the CPP until legal challenges are resolved. States in which the Duke Energy Registrants operate have suspended work on the CPP in response to the stay. Oral arguments before 10 of the 11 judges on D.C. Circuit Court were heard on September 27, 2016. The court has not issued its opinion in the case.

On March 28, 2017, President Trump signed an executive order directing EPA to review the CPP and determine whether to suspend, revise or rescind the rule. On the same day, the Department of Justice (DOJ) filed a motion with the D.C. Circuit Court requesting that the court stay the litigation of the rule

while it is reviewed by EPA. On April 28, 2017, the court issued an order to suspend the litigation for 60 days. On August 8, 2017, the court, on its own motion, extended the suspension of the litigation for an additional 60 days. On October 16, 2017, EPA issued a Notice of Proposed Rulemaking (NPR) to repeal the CPP based on a change to EPA's legal interpretation of the section of the Clean Air Act (CAA) on which the CPP was based. In the proposal, EPA indicates that it has not determined whether it will issue a rule to replace the CPP, and if it will do so, when and what form that rule will take. The comment period on EPA's NPR ends April 26, 2018. On December 28, 2017 EPA issued an Advance Notice of Proposed Rulemaking (ANPRM) in which it seeks public comment on various aspects of a potential CPP replacement rule. The comment period on the ANPRM ends February 26, 2018. If EPA decides to move forward with a CPP replacement rule, it will need to issue a formal proposal for public comment. Litigation of the CPP remains on hold in the D.C. Circuit and the February 2016 U.S. Supreme Court stay of the CPP remains in effect.

Should the CPP be upheld, compliance could cause the industry to replace coal-fired generation with natural gas and renewables. Costs to operate coal-fired generation plants continue to grow due to increasing environmental compliance requirements, including ash management costs unrelated to CPP, which may result in the retirement of coal-fired generation plants earlier than the current end of useful lives. The Duke Energy Registrants could incur increased fuel, purchased power, operation and maintenance and other costs for replacement generation as a result of this rule. Due to the uncertainties related to the implementation of the CPP, the Duke Energy Registrants cannot predict the outcome of these matters.

Sources of Electricity

Electric Utilities and Infrastructure relies principally on coal, nuclear fuel and natural gas for its generation of electricity. The following table lists sources of electricity and fuel costs for the three years ended December 31, 2017.

	Generation by Source			Cost of Delivered Fuel per Net Kilowatt-hour Generated (Cents)		
	2017	2016	2015	2017	2016	2015
Coal ^(a)	27.4%	27.1%	29.0%	2.72	3.07	3.24
Nuclear ^(a)	27.8%	27.4%	27.0%	0.69	0.66	0.65
Natural gas and oil ^(a)	23.6%	22.9%	23.1%	2.85	3.07	3.74
All fuels (cost-based on weighted average) ^(a)	78.8%	77.4%	79.1%	2.04	2.22	2.50
Hydroelectric and solar ^(b)	0.7%	0.7%	0.8%			
Total generation	79.5%	78.1%	79.9%			
Purchased power and net interchange	20.5%	21.9%	20.1%			
Total sources of energy	100.0%	100.0%	100.0%			

(a) Statistics related to all fuels reflect Electric Utilities and Infrastructure's ownership interest in jointly owned generation facilities.

(b) Generating figures are net of output required to replenish pumped storage facilities during off-peak periods.

Coal

Electric Utilities and Infrastructure meets its coal demand through a portfolio of long-term purchase contracts and short-term spot market purchase agreements. Large amounts of coal are purchased under long-term contracts with mining operators who mine both underground and at the surface. Electric Utilities and Infrastructure uses spot market purchases to meet coal requirements not met by long-term contracts. Expiration dates for its long-term contracts, which have various price adjustment provisions and market re-openers, range from 2018 to 2020 for Duke Energy Carolinas, 2018 to 2020 for Duke Energy Progress, 2018 to 2020 for Duke Energy Florida, 2018 to 2020 for Duke Energy Ohio and 2018 to 2025 for Duke Energy Indiana. Electric Utilities and Infrastructure expects to renew these contracts or enter into similar contracts with other suppliers as existing contracts expire, though prices will fluctuate over time as coal markets change. Electric Utilities and Infrastructure has an adequate supply of coal under contract to meet its hedging guidelines regarding projected future consumption. As a result of volatility in natural gas prices and the associated impacts on coal-fired dispatch within the

generation fleet, coal inventories will continue to fluctuate. Electric Utilities and Infrastructure continues to actively manage its portfolio and has worked with suppliers to obtain increased flexibility in its coal contracts.

Coal purchased for the Carolinas is primarily produced from mines in Central Appalachia, Northern Appalachia and the Illinois Basin. Coal purchased for Florida is primarily produced from mines in Colorado and the Illinois Basin. Coal purchased for Kentucky is delivered by barge and is produced from mines along the Ohio River in Illinois, Ohio, West Virginia and Pennsylvania. Coal purchased for Indiana is primarily produced in Indiana and Illinois. The current average sulfur content of coal purchased by Electric Utilities and Infrastructure is between 1.5 percent and 2 percent for Duke Energy Carolinas, between 1.5 percent and 2 percent for Duke Energy Progress, between 1 percent and 3 percent for Duke Energy Florida, between 3 percent and 3.5 percent for Duke Energy Ohio and between 2.5 percent and 3 percent for Duke Energy Indiana. Electric Utilities and Infrastructure's environmental controls, in combination with the use of sulfur dioxide (SO₂) emission allowances, enable Electric Utilities and Infrastructure to satisfy current SO₂ emission limitations for its existing facilities.

PART I

Nuclear

The industrial processes for producing nuclear generating fuel generally involve the mining and milling of uranium ore to produce uranium concentrates and services to convert, enrich and fabricate fuel assemblies.

Electric Utilities and Infrastructure has contracted for uranium materials and services to fuel its nuclear reactors. Uranium concentrates, conversion services and enrichment services are primarily met through a diversified portfolio of long-term supply contracts. The contracts are diversified by supplier, country of origin and pricing. Electric Utilities and Infrastructure staggers its contracting so that its portfolio of long-term contracts covers the majority of its fuel requirements in the near term and decreasing portions of its fuel requirements over time thereafter. Near-term requirements not met by long-term supply contracts have been and are expected to be fulfilled with spot market purchases. Due to the technical complexities of changing suppliers of fuel fabrication services, Electric Utilities and Infrastructure generally sources these services to a single domestic supplier on a plant-by-plant basis using multiyear contracts.

Electric Utilities and Infrastructure has entered into fuel contracts that cover 100 percent of its uranium concentrates, conversion services and enrichment services requirements through at least 2018 and cover fabrication services requirements for these plants through at least 2027. For future requirements not already covered under long-term contracts, Electric Utilities and Infrastructure believes it will be able to renew contracts as they expire or enter into similar contractual arrangements with other suppliers of nuclear fuel materials and services.

Natural Gas and Fuel Oil

Natural gas and fuel oil supply, transportation and storage for Electric Utilities and Infrastructure's generation fleet is purchased under standard

The following table summarizes purchased power for the previous three years:

	2017	2016	2015
Purchase obligations and leases (in millions of megawatt-hours (MWh)) ^(a)	17.7	18.0	14.9
Purchase capacity under contract (in MW) ^(b)	4,028	4,588	4,573

(a) Represents approximately 7 percent of total system requirements for 2017 and 2016 and 6 percent for 2015.

(b) These agreements include approximately 451 MW of firm capacity under contract by Duke Energy Florida with QFs.

Inventory

Generation of electricity is capital intensive. Electric Utilities and Infrastructure must maintain an adequate stock of fuel and materials and supplies in order to ensure continuous operation of generating facilities and reliable delivery to customers. As of December 31, 2017, the inventory balance for Electric Utilities and Infrastructure was approximately \$3.1 billion. For additional information on inventory, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

Ash Basin Management

The North Carolina Coal Ash Management Act of 2014 (Coal Ash Act) regulates the handling of coal ash within the state and requires closure of ash impoundments by no later than December 31, 2029, based on risk rankings, among other detailed requirements. The Coal Ash Act leaves the decision on cost recovery determinations related to closure of coal ash surface impoundments (ash basins or impoundments) to the normal ratemaking processes before utility regulatory commissions. Duke Energy has and will periodically submit to applicable authorities required site-specific coal ash impoundment remediation or closure plans. These plans and all associated permits must be approved before any work can begin.

On April 17, 2015, the EPA published in the Federal Register a rule to regulate the disposal of coal combustion residuals (CCR) from electric utilities

industry agreements from various suppliers, including Piedmont. Natural gas supply agreements typically provide for a percentage of forecasted burns being procured over time, with varied expiration dates. Electric Utilities and Infrastructure believes it has access to an adequate supply of natural gas and fuel oil for the reasonably foreseeable future.

Electric Utilities and Infrastructure has certain dual-fuel generating facilities that can operate utilizing both natural gas and fuel oil. The cost of Electric Utilities and Infrastructure's natural gas and fuel oil is fixed price or determined by published market prices as reported in certain industry publications, plus any transportation and freight costs. Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana use derivative instruments to manage a portion of their exposure to price fluctuations for natural gas. For Duke Energy Florida, there is currently an agreed to moratorium on future hedging with the Florida Public Service Commission.

Electric Utilities and Infrastructure has firm interstate and intrastate natural gas transportation agreements and storage agreements in place to support generation needed for load requirements. Electric Utilities and Infrastructure may purchase additional shorter-term natural gas transportation and utilize natural gas interruptible transportation agreements to support generation needed for load requirements. The Electric Utilities and Infrastructure natural gas plants are served by various supply zones and multiple pipelines.

Purchased Power

Electric Utilities and Infrastructure purchases a portion of its capacity and system requirements through purchase obligations, leases and purchase capacity contracts. Electric Utilities and Infrastructure believes it can obtain adequate purchased power capacity to meet future system load needs. However, during periods of high demand, the price and availability of purchased power may be significantly affected.

as solid waste. The rule classifies CCR as nonhazardous under Subtitle D of the Resource Conservation and Recovery Act (RCRA). The EPA CCR rule has certain requirements, which if not met could initiate impoundment closure and require closure completion within five years. The EPA CCR rule includes extension requirements, which if met could allow the extension of closure completion by up to 10 years. The RCRA and the Coal Ash Act finalized the legal framework related to coal ash management practices and ash basin closure.

Duke Energy has advanced the strategy and implementation for the remediation or closure of coal ash basins. In 2015, Duke Energy began activities at certain North Carolina sites specified as high priority by the Coal Ash Act, including moving coal ash off-site for use in structural fill or to lined landfills. Additional modifications to operating coal plants are underway to comply with the Coal Ash Act and RCRA.

Duke Energy Carolinas and Duke Energy Progress have included compliance costs associated with the EPA CCR rule and the Coal Ash Act in their respective rate case filings. During 2017, Duke Energy Carolinas' and Duke Energy Progress' wholesale contracts were amended to include the recovery of expenditures related to asset retirement obligations for the closure of coal ash basins. The amended contracts have retail disallowance parity or provisions limiting challenges to CCR cost recovery actions at FERC. FERC approved the amended wholesale rate schedules in 2017. For additional information on the ash basins and recovery, see Notes 4, 5 and 9 to the Consolidated Financial Statements, "Regulatory Matters," "Commitments and Contingencies" and "Asset Retirement Obligations," respectively.

PART I

Nuclear Matters

Duke Energy owns, wholly or partially, 11 operating nuclear reactors located at six stations. The Crystal River Unit 3 Nuclear Plant (Crystal River Unit 3) permanently ceased operation in February 2013. Nuclear insurance includes: nuclear liability coverage; property damage coverage; nuclear accident decontamination and premature decommissioning coverage; and accidental outage coverage for losses in the event of a major accidental outage. Joint owners reimburse Duke Energy for certain expenses associated with nuclear insurance in accordance with joint owner agreements. The Price-Anderson Act

requires plant owners to provide for public nuclear liability claims resulting from nuclear incidents to the maximum total financial protection liability, which is approximately \$13.4 billion. For additional information on nuclear insurance see Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies."

Duke Energy has a significant future financial commitment to dispose of spent nuclear fuel and decommission and decontaminate each plant safely. The NCUC, PSCSC and FPSC require Duke Energy to update their cost estimates for decommissioning their nuclear plants every five years.

The following table summarizes the fair value of nuclear decommissioning trust fund (NTDF) balances and cost study results for Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida. Decommissioning costs in the table below are stated in 2013 or 2014 dollars, depending on the year of the cost study, and include costs to decommission plant components not subject to radioactive contamination.

(in millions)	NTDF ^(a)		Decommissioning Costs ^{(a)(b)}	Year of Cost Study
	December 31, 2017	December 31, 2016		
Duke Energy	\$ 7,097	\$ 6,205	\$ 8,150	2013 and 2014
Duke Energy Carolinas	3,772	3,273	3,420	2013
Duke Energy Progress	2,588	2,217	3,550	2014
Duke Energy Florida ^(c)	736	715	1,180	2013

(a) Amounts for Progress Energy equal the sum of Duke Energy Progress and Duke Energy Florida.

(b) Amounts include the Subsidiary Registrants' ownership interest in jointly owned reactors. Other joint owners are responsible for decommissioning costs related to their interest in the reactors.

(c) Duke Energy Florida received reimbursements from the NTDF for costs related to ongoing decommissioning activity of Crystal River Unit 3.

The NCUC, PSCSC, FPSC and FERC have allowed Electric Utilities and Infrastructure to recover estimated decommissioning costs through retail and wholesale rates over the expected remaining service periods of their nuclear stations. Electric Utilities and Infrastructure believes the decommissioning costs being recovered through rates, when coupled with the existing fund balances and expected fund earnings, will be sufficient to provide for the cost of future decommissioning. For additional information, see Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations."

The Nuclear Waste Policy Act of 1982 (as amended) (NWSA) provides the framework for development by the federal government of interim storage and permanent disposal facilities for high-level radioactive waste materials. The government has not yet developed a storage facility or disposal capacity, so Electric Utilities and Infrastructure will continue to store spent fuel on its reactor sites.

Under federal law, the U.S. Department of Energy (DOE) is responsible for the selection and construction of a facility for the permanent disposal of spent nuclear fuel and high-level radioactive waste. The DOE terminated the project to license and develop a geologic repository at Yucca Mountain, Nevada in 2010, and is currently taking no action to fulfill its responsibilities to dispose of spent fuel.

Until the DOE begins to accept the spent nuclear fuel, Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida will continue to safely manage their spent nuclear fuel. Under current regulatory guidelines, Shearon Harris Nuclear Plant (Harris) has sufficient storage capacity in its spent fuel pools through the expiration of its renewed operating license. Crystal River Unit 3 ceased operation in 2013 and was placed in a SAFSTOR condition in January 2018. As of January 2018, all spent fuel at Crystal River Unit 3 has been transferred from the spent fuel pool to dry storage at an on-site independent spent fuel storage installation where it will be stored until the DOE removes it. With certain modifications and approvals by the U.S. Nuclear Regulatory Commission (NRC) to expand the on-site dry cask storage facilities, spent nuclear fuel dry storage facilities will be sufficient to provide storage space of spent fuel through the expiration of the operating licenses, including any license renewals, for the Brunswick Nuclear Plant (Brunswick), Catawba Nuclear Station (Catawba), McGuire Nuclear Station (McGuire), Oconee Nuclear Station (Oconee) and Robinson Nuclear Plant (Robinson).

The nuclear power industry faces uncertainties with respect to the cost and long-term availability of disposal sites for spent nuclear fuel and other

radioactive waste, compliance with changing regulatory requirements, capital outlays for modifications and new plant construction.

Electric Utilities and Infrastructure is subject to the jurisdiction of the NRC for the design, construction and operation of its nuclear generating facilities. The following table includes the current year of expiration of nuclear operating licenses for nuclear stations in operation. Nuclear operating licenses are potentially subject to extension.

Unit	Year of Expiration
Duke Energy Carolinas	
Catawba Units 1 and 2	2043
McGuire Unit 1	2041
McGuire Unit 2	2043
Oconee Units 1 and 2	2033
Oconee Unit 3	2034
Duke Energy Progress	
Brunswick Unit 1	2036
Brunswick Unit 2	2034
Harris	2046
Robinson	2030

The NRC has acknowledged permanent cessation of operation and permanent removal of fuel from the reactor vessel at Crystal River Unit 3. Therefore, the license no longer authorizes operation of the reactor. For additional information on decommissioning activity, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

On October 27, 2016, and December 15, 2016, the NRC issued combined operating licenses for Duke Energy Florida's proposed Levy Nuclear Plant Units 1 and 2 (Levy) and Duke Energy Carolinas' William States Lee III Nuclear Station Units 1 and 2, respectively. On August 25, 2017, as part of Duke Energy Carolinas rate case filing, Duke Energy Carolinas requested NCUC approval to cancel the development of the Lee Nuclear Station project with the intent to maintain the combined operating licenses. On August 29, 2017, Duke Energy announced the complete abandonment of the Levy project with the intent to terminate the combined operating licenses. For additional information on these proposed nuclear plants, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

PART I

Regulation

State

The NCUC, PSCSC, FPSC, PUCO, IURC and KPSC (collectively, the state electric utility commissions) approve rates for Duke Energy's retail electric service within their respective states. The state electric utility commissions, to varying degrees, have authority over the construction and operation of Electric Utilities and Infrastructure's generating facilities. Certificates of Public Convenience and Necessity issued by the state electric utility commissions, as applicable, authorize Electric Utilities and Infrastructure to construct and operate its electric facilities and to sell electricity to retail and wholesale customers. Prior approval from the relevant state electric utility commission is required for the entities within Electric Utilities and Infrastructure to issue securities. The underlying concept of utility ratemaking is to set rates at a level that allows the utility to collect revenues equal to its cost of providing service plus earn a reasonable rate of return on its invested capital, including equity.

The table below reflects significant electric rate case applications approved and effective in the past three years or applications currently pending approval.

	Regulatory Body	Annual Increase (in millions)	Return on Equity	Equity Component of Capital Structure	Effective Date
Approved Rate Cases:					
Duke Energy Progress 2016 South Carolina Rate Case ^(a)	PSCSC	(a)	10.1%	53%	1/1/2017
Pending Rate Cases:					
Duke Energy Carolinas 2017 North Carolina Rate Case	NCUC	\$ 647	10.75%	53%	5/1/2018 ^(d)
Duke Energy Progress 2017 North Carolina Rate Case ^(b)	NCUC	85	9.9%	52%	2/1/2018 ^(d)
Duke Energy Progress 2017 North Carolina Rate Case ^(c)	NCUC	221	9.9%	52%	2/1/2018 ^(d)
Duke Energy Kentucky 2017 Kentucky Rate Case	KPSC	49	10.3%	49%	4/15/2018 ^(d)
Duke Energy Ohio 2017 Ohio Rate Case	PUCO	15	10.4%	50.75%	1/1/2018 ^(d)

(a) An increase of approximately \$38 million in revenues was effective January 1, 2017, and an additional increase of approximately \$18.5 million in revenues was effective January 1, 2018. Duke Energy Progress amortized approximately \$18.5 million from the cost of removal reserve in 2017.

(b) On November 22, 2017, Duke Energy Progress and the North Carolina Public Staff filed an Agreement and Stipulation of Partial Settlement resolving certain portions of the proceeding, pending NCUC approval.

(c) Represents portions in the original 2017 rate case application not covered by the Agreement and Stipulation of Partial Settlement.

(d) Represents the requested effective dates in the filings. Actual effective dates may differ based on orders from the respective commission.

For more information on rate matters and other regulatory proceedings, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

Federal

The FERC approves Electric Utilities and Infrastructure's cost-based rates for electric sales to certain power and transmission wholesale customers. Regulations of FERC and the state electric utility commissions govern access to regulated electric and other data by nonregulated entities and services provided between regulated and nonregulated energy affiliates. These regulations affect the activities of nonregulated affiliates with Electric Utilities and Infrastructure.

Regional Transmission Organizations (RTO). PJM Interconnection, LLC (PJM) and Midcontinent Independent System Operator, Inc. (MISO) are the Independent System Operators (ISO) and FERC-approved RTOs for the regions in which Duke Energy Ohio and Duke Energy Indiana operate. PJM and MISO operate energy, capacity and other markets, and control the day-to-day operations of bulk power systems through central dispatch.

Duke Energy Ohio is a member of PJM and Duke Energy Indiana is a member of MISO. Transmission owners in these RTOs have turned over control of their transmission facilities and their transmission systems are currently under the dispatch control of the RTOs. Transmission service is provided on a regionwide, open-access basis using the transmission facilities of the RTO members at rates based on the costs of transmission service.

Environmental. Electric Utilities and Infrastructure is subject to the jurisdiction of the EPA and state and local environmental agencies. For a discussion of environmental regulation, see "Environmental Matters" in this

In addition to rates approved in base rate cases, each of the state electric utility commissions allow recovery of certain costs through various cost-recovery clauses to the extent the respective commission determines in periodic hearings that such costs, including any past over or under-recovered costs, are prudent.

Fuel, fuel-related costs and certain purchased power costs are eligible for recovery by Electric Utilities and Infrastructure. Electric Utilities and Infrastructure uses coal, hydroelectric, natural gas, oil, renewable generation and nuclear fuel to generate electricity, thereby maintaining a diverse fuel mix that helps mitigate the impact of cost increases in any one fuel. Due to the associated regulatory treatment and the method allowed for recovery, changes in fuel costs from year to year have no material impact on operating results of Electric Utilities and Infrastructure, unless a commission finds a portion of such costs to have been imprudent. However, delays between the expenditure for fuel costs and recovery from customers can adversely impact the timing of cash flows of Electric Utilities and Infrastructure.

section. See "Other Matters" section of MD&A for a discussion about potential Global Climate Change legislation and other EPA regulations under development and the potential impacts such legislation and regulation could have on Duke Energy's operations.

GAS UTILITIES AND INFRASTRUCTURE

Gas Utilities and Infrastructure conducts natural gas operations primarily through the regulated public utilities of Piedmont and Duke Energy Ohio. The natural gas operations are subject to the rules and regulations of the NCUC, PSCSC, PUCO, KPSC, Tennessee Public Utility Commission (TPUC), Pipeline and Hazardous Materials Safety Administration (PHMSA) and the FERC. Gas Utilities and Infrastructure serves residential, commercial, industrial and power generation natural gas customers. Gas Utilities and Infrastructure has over 1.5 million customers, including more than 1 million customers located in North Carolina, South Carolina and Tennessee, and an additional 526,000 customers located within southwestern Ohio and northern Kentucky. In the Carolinas, Ohio and Kentucky, the service areas are comprised of numerous cities, towns and communities. In Tennessee, the service area is the metropolitan area of Nashville.

The number of residential, commercial and industrial customers within the Gas Utilities and Infrastructure service territory is expected to increase over time. Average usage per residential customer is expected to remain flat or decline for the foreseeable future, however decoupled rates in North Carolina and various rate design mechanisms in other jurisdictions partially mitigate the impact of the declining usage per customer on overall profitability. While total

PART I

industrial and general service sales increased in 2017 when compared to 2016, the growth rate was modest when compared to historical periods.

Gas Utilities and Infrastructure also owns, operates and has investments in various pipeline transmission and natural gas storage facilities.

Natural Gas for Retail Distribution

Gas Utilities and Infrastructure is responsible for the distribution of natural gas to retail customers in its North Carolina, South Carolina, Tennessee, Ohio and Kentucky service territories. Gas Utilities and Infrastructure's natural gas procurement strategy is to contract primarily with major and independent producers and marketers for natural gas supply. It also purchases a diverse portfolio of transportation and storage service from interstate pipelines. This strategy allows Gas Utilities and Infrastructure to assure reliable natural gas supply and transportation for its firm customers during peak winter conditions. When firm pipeline services or contracted natural gas supplies are temporarily not needed due to market demand fluctuations, Gas Utilities and Infrastructure may release these services and supplies in the secondary market under FERC-approved capacity release provisions or make wholesale secondary market sales. In 2017, firm supply purchase commitment agreements provided 100 percent of the natural gas supply for Piedmont and 100 percent for Duke Energy Ohio.

Seasonality and the Impact of Weather

Gas Utilities and Infrastructure's costs and revenues are influenced by seasonal patterns due to peak natural gas sales occurring during the winter months. Residential customers are the most impacted by weather. There are certain regulatory mechanisms for the North Carolina, South Carolina and Tennessee service territories that normalize the margins collected from certain customer classes during the winter, providing for an adjustment either up or down. In North Carolina, rate design provides protection from both weather and other usage variations such as conservation. In South Carolina and Tennessee, revenues are adjusted solely based on weather during the periods of November through March and October through April, respectively. Rate design for the Ohio service territory also mitigates the impacts of weather on customer bills. Estimated weather impacts are based on actual current period weather compared to normal weather conditions. Normal weather conditions are defined as the long-term average of actual historical weather conditions.

Degree-day data are used to estimate energy required to maintain comfortable indoor temperatures based on each day's average temperature. Heating-degree days measure the variation in weather based on the extent the average daily temperature falls below a base temperature. The methodology used to estimate the applicable impact of weather does not consider all variables that may impact customer response to weather conditions, such as wind chill. The precision of this estimate may also be impacted by applying long-term weather trends to shorter-term periods.

Competition

Gas Utilities and Infrastructure's businesses operate as the sole supplier of natural gas within their retail service territories, with the exception of Ohio, which has a competitive natural gas supply market for distribution service. Gas Utilities and Infrastructure owns and operates facilities necessary to transport and distribute natural gas. Gas Utilities and Infrastructure earns retail margin on the transmission and distribution of natural gas and not on the cost of the underlying commodity. Services are priced by state commission approved rates designed to include the costs of providing these services and a reasonable return on invested capital. This regulatory policy is intended to provide safe and reliable natural gas service at fair prices.

In residential, commercial and industrial customer markets, natural gas distribution operations compete with other companies that supply energy, primarily electric companies, propane and fuel oil dealers, renewable energy providers and coal companies in relation to sources of energy for electric power plants, as well as nuclear energy. A significant competitive factor is

price. Gas Utilities and Infrastructure's primary product competition is with electricity for heating, water heating and cooking. Increases in the price of natural gas or decreases in the price of other energy sources could negatively impact competitive position by decreasing the price benefits of natural gas to the consumer. In the case of industrial customers, such as manufacturing plants, adverse economic or market conditions, including higher natural gas costs, could cause these customers to suspend business operations or to use alternative sources of energy in favor of energy sources with lower per-unit costs.

Higher natural gas costs or decreases in the price of other energy sources may allow competition from alternative energy sources for applications that have traditionally used natural gas, encouraging some customers to move away from natural gas-fired equipment to equipment fueled by other energy sources. Competition between natural gas and other forms of energy is also based on efficiency, performance, reliability, safety and other non-price factors. Technological improvements in other energy sources and events that impair the public perception of the non-price attributes of natural gas could erode our competitive advantage. These factors in turn could decrease the demand for natural gas, impair our ability to attract new customers and cause existing customers to switch to other forms of energy or to bypass our systems in favor of alternative competitive sources. This could result in slow or no customer growth and could cause customers to reduce or cease using our product, thereby reducing our ability to make capital expenditures and otherwise grow our business, adversely affecting our earnings.

Pipeline and Storage Investments

Duke Energy, through its Gas Utilities and Infrastructure segment, is a 47 percent equity member of Atlantic Coast Pipeline, LLC (ACP) that plans to build and own the proposed Atlantic Coast Pipeline (ACP Pipeline), an approximately 600-mile interstate natural gas pipeline, regulated by FERC. Prior to the Piedmont acquisition, Duke Energy owned a 40 percent equity ownership in ACP. The ACP pipeline is intended to transport diverse natural gas supplies into southeastern markets. Duke Energy Carolinas, Duke Energy Progress and Piedmont, among others, will be customers of the ACP pipeline. The targeted in-service date of the pipeline is late 2019.

Gas Utilities and Infrastructure also has a 7.5 percent equity ownership interest in Sabal Trail Transmission, LLC (Sabal Trail). Sabal Trail is a joint venture that owns a 515-mile natural gas pipeline (Sabal Trail pipeline) to transport natural gas to Florida, regulated by FERC. The Sabal Trail phase one mainline was placed into service in July 2017 and traverses Alabama, Georgia and Florida. A request to place in-service a lateral line to the Duke Energy Florida's Citrus County Combined Cycle facility is pending with FERC. Current legal challenges to the Sabal Trail pipeline are ongoing, which may have an impact on continuing operations of the pipeline.

Gas Utilities and Infrastructure has a 24 percent equity ownership interest in Constitution Pipeline Company, LLC (Constitution), an interstate pipeline development company formed to develop, construct, own and operate a 124-mile natural gas pipeline and related facilities connecting shale natural gas supplies and gathering systems in Susquehanna County, Pennsylvania, to Iroquois Gas Transmission and Tennessee Gas Pipeline systems in New York, regulated by FERC. As a result of permitting delays and project uncertainty, Constitution is unable to approximate an in-service date.

As a result of the Piedmont acquisition, Duke Energy, through its Gas Utilities and Infrastructure segment, has a 21.49 percent equity ownership interest in Cardinal Pipeline Company, LLC (Cardinal), an intrastate pipeline located in North Carolina regulated by the NCUC, a 45 percent equity ownership in Pine Needle LNG Company, LLC (Pine Needle), an interstate liquefied natural gas storage facility located in North Carolina and a 50 percent equity ownership interest in Hardy Storage Company, LLC (Hardy Storage), an underground interstate natural gas storage facility located in Hardy and Hampshire counties in West Virginia. Pine Needle and Hardy Storage are regulated by FERC.

KO Transmission Company (KO Transmission), a wholly owned subsidiary of Duke Energy Ohio, is an interstate pipeline company engaged in the business

PART I

of transporting natural gas and is subject to the rules and regulations of FERC. KO Transmission's 90-mile pipeline supplies natural gas to Duke Energy Ohio and interconnects with the Columbia Gulf Transmission pipeline and Tennessee Gas Pipeline. An approximately 70-mile portion of KO Transmission's pipeline facilities is co-owned by Columbia Gas Transmission Corporation.

See Notes 4, 12 and 17 to the Consolidated Financial Statements, "Regulatory Matters," "Investments in Unconsolidated Affiliates" and "Variable Interest Entities," respectively, for further information on Duke Energy's pipeline investments.

Inventory

Gas Utilities and Infrastructure must maintain adequate natural gas inventory in order to provide reliable delivery to customers. As of December 31, 2017, the inventory balance for Gas Utilities and Infrastructure was \$106 million. For more information on inventory, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

Regulation

State

The NCUC, PSCSC, PUCO, TPUC and KPSC (collectively, the state gas utility commissions) approve rates for Duke Energy's retail natural gas service

within their respective states. The state gas utility commissions, to varying degrees, have authority over the construction and operation of Gas Utilities and Infrastructure's natural gas distribution facilities. Certificates of Public Convenience and Necessity or Certificates of Environmental Compatibility and Public Necessity issued by the state gas utility commissions or other government agencies, as applicable, authorize Gas Utilities and Infrastructure to construct and operate its natural gas distribution facilities and to sell natural gas to retail and wholesale customers. Prior approval from the relevant state gas utility commission is required for Gas Utilities and Infrastructure to issue securities. The underlying concept of utility ratemaking is to set rates at a level that allows the utility to collect revenues equal to its cost of providing service plus a reasonable rate of return on its invested capital, including equity.

In addition to amounts collected from customers through approved base rates, each of the state gas utility commissions allow recovery of certain costs through various cost-recovery clauses to the extent the respective commission determines in periodic hearings that such costs, including any past over- or under-recovered costs, are prudent.

Natural gas costs are eligible for recovery by Gas Utilities and Infrastructure. Due to the associated regulatory treatment and the method allowed for recovery, changes in natural gas costs from year to year have no material impact on operating results of Gas Utilities and Infrastructure, unless a commission finds a portion of such costs to have not been prudent. However, delays between the expenditure for natural gas and recovery from customers can adversely impact the timing of cash flows of Gas Utilities and Infrastructure.

The following table summarizes certain components underlying recently approved and effective base rates or rate stabilization filings in the last three years.

	Annual Increase (in millions)	Return on Equity	Equity Component of Capital Structure	Effective Date
Piedmont 2016 South Carolina Rate Stabilization Adjustment Filing ^(a)	8	10.2%	53.0%	November 2016
Piedmont 2017 South Carolina Rate Stabilization Adjustment Filing ^(a)	6	10.2%	53.0%	November 2017

(a) Under the rate stabilization adjustment mechanism, Piedmont resets rates in South Carolina based on updated costs and revenues on an annual basis.

Gas Utilities and Infrastructure has integrity management rider (IMR) mechanisms in North Carolina and Tennessee designed to separately track and recover certain costs associated with capital investments incurred to comply with federal pipeline safety and integrity programs, as well as additional state safety and integrity requirements in Tennessee. The following table summarizes information related to recently approved or pending IMR filings.

(in millions)	Cumulative Investment	Annual Margin Revenues	Effective Date
Piedmont 2017 IMR Filing – North Carolina ^(a)	\$ 738	\$ 77	December 2017
Piedmont 2016 IMR Filing – Tennessee ^(b)	193	23	January 2017

Pending Filing:			Proposed Effective Date
Piedmont 2017 IMR Filing – Tennessee ^(c)	\$ 231	\$ 23.4	January 2018

(a) Cumulative investment amounts through September 30, 2017.

(b) Cumulative investment amounts through October 31, 2016.

(c) Cumulative investment amounts through October 31, 2017. A ruling from the TPUC is pending.

For more information on rate matters and other regulatory proceedings, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

Federal

Gas Utilities and Infrastructure is subject to various federal regulations, including regulations that are particular to the natural gas industry. These federal regulations include but are not limited to the following:

- Regulations of the FERC affect the certification and siting of new interstate natural gas pipeline projects, the purchase and sale of, the prices paid for, and the terms and conditions of service for the interstate transportation and storage of natural gas.

- Regulations of the PHMSA affect the design, construction, operation, maintenance, integrity, safety and security of natural gas distribution and transmission systems.
- Regulations of the EPA relate to the environment including proposed air emissions regulations that would expand to include emissions of methane. For a discussion of environmental regulation, see "Environmental Matters" in this section. Refer to "Other Matters" section of Management's Discussion and Analysis of Financial Condition and Results of Operations for a discussion about potential Global Climate Change legislation and other EPA regulations under development and the potential impacts such legislation and regulation could have on Duke Energy's operations.

PART I

Regulations of FERC and the state gas utility commissions govern access to regulated natural gas and other data by nonregulated entities and services provided between regulated and nonregulated energy affiliates. These regulations affect the activities of nonregulated affiliates with Gas Utilities and Infrastructure.

COMMERCIAL RENEWABLES

Commercial Renewables primarily acquires, builds, develops and operates wind and solar renewable generation throughout the continental U.S. The portfolio includes nonregulated renewable energy and energy storage businesses.

Commercial Renewables' renewable energy includes utility-scale wind and solar generation assets, which total 2,907 MW across 14 states from 21 wind facilities and 63 solar facilities. Revenues are primarily generated by selling the power produced from renewable generation through long-term contracts to utilities, electric cooperatives, municipalities and commercial and industrial customers. In most instances, these customers have obligations under state-mandated renewable energy portfolio standards or similar state or local renewable energy goals. Energy and renewable energy credits generated by wind and solar projects are generally sold at contractual prices. In addition, as eligible wind and solar projects are placed in service, Commercial Renewables recognizes either investment tax credits (ITCs) when the renewable solar or wind project achieves commercial availability or production tax credits (PTC) as power is generated by wind projects over 10 years. Renewable ITCs are recognized over the useful life of the asset as a reduction to depreciation expense with the benefit of the tax basis adjustment due to the ITC recognized in income in the year of commercial availability.

As part of its growth strategy, Commercial Renewables has expanded its investment portfolio through the addition of distributed solar companies and projects, energy storage systems and energy management solutions specifically tailored to commercial businesses. These investments include the 2015 acquisition of a controlling interest in REC Solar Corp., a California-based provider of solar installations for retail, manufacturing, agriculture, technology, government and nonprofit customers across the U.S. and Phoenix Energy Technologies Inc., a California-based provider of enterprise energy management and information software to commercial businesses. In 2017, Duke Energy acquired the remaining interest in REC Solar.

For additional information on Commercial Renewables' generation facilities, see Item 2, "Properties."

Regulation

Commercial Renewables is subject to regulation at the federal level, primarily from the FERC. Regulations of the FERC govern access to regulated market information by nonregulated entities and services provided between regulated and nonregulated utilities.

Market Environment and Competition

The market price of commodities and services, along with the quality and reliability of services provided, drive competition in the wholesale energy business. Commercial Renewables' main competitors include other nonregulated generators and wholesale power providers.

Sources of Electricity

Commercial Renewables relies on wind and solar resources for its generation of electric energy.

OTHER

The remainder of Duke Energy's operations is presented as Other. While it is not an operating segment, Other primarily includes interest expense on holding company debt, unallocated corporate costs including costs to achieve strategic acquisitions, amounts related to certain companywide initiatives and contributions made to the Duke Energy Foundation. Other also includes Bison Insurance Company Limited (Bison) and an investment in NMC.

The Duke Energy Foundation is a nonprofit organization funded by Duke Energy shareholders that makes charitable contributions to selected nonprofits and government subdivisions.

Bison, a wholly owned subsidiary of Duke Energy, is a captive insurance company with the principal activity of providing Duke Energy subsidiaries with indemnification for financial losses primarily related to property, workers' compensation and general liability.

NMC is a joint venture that operates in Jubail, Saudi Arabia, as a large regional producer of methanol and methyl tertiary butyl ether (MTBE), an additive to gasoline. In 2017, NMC produced approximately 934,000 metric tons of methanol and approximately 1,087,000 metric tons of MTBE. Approximately 40 percent of methanol is normally used in MTBE production. Upon the successful startup of NMC's polyacetal production facility during the fourth quarter of 2017, Duke Energy's ownership interest in NMC decreased from 25 percent to 17.5 percent. Duke Energy records the investment activity of NMC using the equity method of accounting and retains 25 percent of NMC's board of directors representation and voting rights.

Regulation

Certain entities within Other are subject to the jurisdiction of federal, state and local agencies.

Employees

On December 31, 2017, Duke Energy had a total of 29,060 employees on its payroll. The total includes 5,483 employees who are represented by labor unions under various collective bargaining agreements that generally cover wages, benefits, working practices, and other terms and conditions of employment.

PART I

Executive Officers of the Registrants

The following table sets forth the individuals who currently serve as executive officers. Executive officers serve until their successors are duly elected or appointed.

Name	Age ^(a)	Current and Recent Positions Held
Lynn J. Good	58	Chairman, President and Chief Executive Officer. Ms. Good was elected as Chairman of the Board, effective January 1, 2016, and assumed her position as President and Chief Executive Officer in July 2013. Prior to that, she served as Executive Vice President and Chief Financial Officer since 2009.
Steven K. Young	59	Executive Vice President and Chief Financial Officer. Mr. Young assumed his current position in August 2013. Prior to that, he had served as Senior Vice President, Chief Accounting Officer and Controller since April 2006.
Douglas F. Esamann	60	Executive Vice President, Energy Solutions and President, Midwest and Florida Regions. Mr. Esamann assumed his current position in September 2016 and was Executive Vice President and President, Midwest and Florida Regions since June 2015. Prior to that, he was President, Duke Energy Indiana since November 2010.
Lloyd M. Yates	57	Executive Vice President, Customer and Delivery Operations and President, Carolinas Region. Mr. Yates assumed his current position in September 2016 and was Executive Vice President, Market Solutions and President, Carolinas Region since August 2014. He held the position of Executive Vice President, Regulated Utilities from December 2012 to August 2014, and prior to that, had served as Executive Vice President, Customer Operations since July 2012, upon the merger of Duke Energy and Progress Energy. Prior to the merger, Mr. Yates was President and Chief Executive Officer of Progress Energy Carolinas, Inc., which is now known as Duke Energy Progress, LLC since July 2007.
Dhiaa M. Jamil	61	Executive Vice President and Chief Operating Officer. Mr. Jamil assumed the role of Chief Operating Officer in May 2016. Prior to his current position, he had held the title Executive Vice President and President, Regulated Generation and Transmission since June 2015. Prior to that, he had served as Executive Vice President and President, Regulated Generation since August 2014. He served as Executive Vice President and President of Duke Energy Nuclear from March 2013 to August 2014, and Chief Nuclear Officer from February 2008 to February 2013. He also served as Chief Generation Officer for Duke Energy from July 2009 to June 2012.
Franklin H. Yoho	58	Executive Vice President and President, Natural Gas. Mr. Yoho assumed his current position in October 2016 upon the acquisition of Piedmont by Duke Energy. Prior to this appointment, he served as Senior Vice President and Chief Commercial Officer of Piedmont since August 2011. Prior to that, he served as Senior Vice President, Commercial Operations since March 2002.
Julia S. Janson	53	Executive Vice President, External Affairs, Chief Legal Officer and Corporate Secretary. Ms. Janson assumed her current position in December 2012 and, in May 2017, assumed the responsibilities for the External Affairs and Strategic Policy organization. Prior to that, she had held the position of President of Duke Energy Ohio and Duke Energy Kentucky since 2008.
Melissa H. Anderson	53	Executive Vice President, Administration and Chief Human Resources Officer. Ms. Anderson assumed her position in May 2016 and had been Executive Vice President and Chief Human Resources Officer since January 2015. Prior to joining Duke Energy, she served as Senior Vice President of Human Resources at Domtar Inc. since 2010.
William E. Currrens Jr.	48	Senior Vice President, Chief Accounting Officer and Controller. Mr. Currrens assumed his current position in May 2016. Prior to that, he had held the position of Vice President, Investor Relations since 2009.

(a) The ages of the officers provided are as of December 31, 2017.

There are no family relationships between any of the executive officers, nor any arrangement or understanding between any executive officer and any other person involved in officer selection.

Environmental Matters

The Duke Energy Registrants are subject to federal, state and local laws and regulations with regard to air and water quality, hazardous and solid waste disposal and other environmental matters. Environmental laws and regulations affecting the Duke Energy Registrants include, but are not limited to:

- The Clean Air Act (CAA), as well as state laws and regulations impacting air emissions, including State Implementation Plans related to existing and new national ambient air quality standards for ozone and particulate matter. Owners and/or operators of air emission sources are responsible for obtaining permits and for annual compliance and reporting.
- The Clean Water Act (CWA), which requires permits for facilities that discharge wastewaters into navigable waters.
- The Comprehensive Environmental Response, Compensation and Liability Act, which can require any individual or entity that currently owns or in the past owned or operated a disposal site, as well as transporters or generators of hazardous substances sent to a disposal site, to share in remediation costs.

- The National Environmental Policy Act, which requires federal agencies to consider potential environmental impacts in their permitting and licensing decisions, including siting approvals.
- Coal Ash Act, as amended, which establishes requirements regarding the use and closure of existing ash basins, the disposal of ash at active coal plants and the handling of surface water and groundwater impacts from ash basins in North Carolina.
- The Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act (RCRA), which creates a framework for the proper management of hazardous and nonhazardous solid waste; classifies CCR as nonhazardous waste; and establishes standards for landfill and surface impoundment placement, design, operation and closure, groundwater monitoring, corrective action, and post-closure care.
- The Toxic Substances Control Act (TSCA), which gives EPA the authority to require reporting, recordkeeping and testing requirements, and to place restrictions relating to chemical substances and/or mixtures, including polychlorinated biphenyls.

For more information on environmental matters, see Notes 5 and 9 to the Consolidated Financial Statements, “Commitments and Contingencies – Environmental” and “Asset Retirement Obligations,” respectively, and the “Other Matters” section of MD&A. Except as otherwise described in these sections, costs to comply with current federal, state and local provisions regulating the discharge of materials into the environment or other potential costs related to protecting the environment are incorporated into the routine cost structure of

PART I

our various business segments and are not expected to have a material adverse effect on the competitive position, consolidated results of operations, cash flows or financial position of the Duke Energy Registrants.

The "Other Matters" section of MD&A includes an estimate of future capital expenditures required to comply with environmental regulations and a discussion of Global Climate Change including the potential impact of current and future legislation related to greenhouse gas (GHG) emissions on the Duke Energy Registrants' operations. Recently passed and potential future environmental statutes and regulations could have a significant impact on the Duke Energy Registrants' results of operations, cash flows or financial position. However, if and when such statutes and regulations become effective, the Duke Energy Registrants will seek appropriate regulatory recovery of costs to comply within its regulated operations.

DUKE ENERGY CAROLINAS

Duke Energy Carolinas is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Carolinas' service area covers approximately 24,000 square miles and supplies electric service to 2.5 million residential, commercial and industrial customers. For information about Duke Energy Carolinas' generating facilities, see Item 2, "Properties." Duke Energy Carolinas is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Substantially all of Duke Energy Carolinas' operations are regulated and qualify for regulatory accounting. Duke Energy Carolinas operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

PROGRESS ENERGY

Progress Energy is a public utility holding company primarily engaged in the regulated electric utility business and is subject to regulation by the FERC. Progress Energy conducts operations through its wholly owned subsidiaries, Duke Energy Progress and Duke Energy Florida. When discussing Progress Energy's financial information, it necessarily includes the results of Duke Energy Progress and Duke Energy Florida.

Substantially all of Progress Energy's operations are regulated and qualify for regulatory accounting. Progress Energy operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY PROGRESS

Duke Energy Progress is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Progress' service area covers approximately 32,000 square miles and supplies electric service to approximately 1.5 million residential, commercial and industrial customers. For information about Duke Energy Progress' generating facilities, see Item 2, "Properties." Duke Energy Progress is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Substantially all of Duke Energy Progress' operations are regulated and qualify for regulatory accounting. Duke Energy Progress operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY FLORIDA

Duke Energy Florida is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Florida. Duke Energy Florida's service area covers approximately 13,000 square miles and supplies electric service to approximately 1.8 million residential, commercial and industrial customers. For information about Duke Energy Florida's generating facilities, see Item 2, "Properties." Duke Energy Florida is subject to the regulatory provisions of the FPSC, NRC and FERC.

Substantially all of Duke Energy Florida's operations are regulated and qualify for regulatory accounting. Duke Energy Florida operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY OHIO

Duke Energy Ohio is a regulated public utility primarily engaged in the transmission and distribution of electricity in portions of Ohio and Kentucky, in the generation and sale of electricity in portions of Kentucky and the transportation and sale of natural gas in portions of Ohio and Kentucky. Duke Energy Ohio also conducts competitive auctions for retail electricity supply in Ohio whereby recovery of the energy price is from retail customers. Operations in Kentucky are conducted through its wholly owned subsidiary, Duke Energy Kentucky, Inc. (Duke Energy Kentucky). References herein to Duke Energy Ohio include Duke Energy Ohio and its subsidiaries, unless otherwise noted. Duke Energy Ohio is subject to the regulatory provisions of the PUCO, KPSC and FERC.

Duke Energy Ohio's service area covers approximately 3,000 square miles and supplies electric service to approximately 850,000 residential, commercial and industrial customers and provides transmission and distribution services for natural gas to approximately 529,000 customers. For information about Duke Energy Ohio's generating facilities, see Item 2, "Properties."

KO Transmission, a wholly owned subsidiary of Duke Energy Ohio, is an interstate pipeline company engaged in the business of transporting natural gas and is subject to the rules and regulations of FERC. KO Transmission's 90-mile pipeline supplies natural gas to Duke Energy Ohio and interconnects with the Columbia Gulf Transmission pipeline and Tennessee Gas Pipeline. An approximately 70-mile portion of KO Transmission's pipeline facilities is co-owned by Columbia Gas Transmission Corporation.

On April 2, 2015, Duke Energy completed the sale of its nonregulated Midwest generation business, which sold power into wholesale energy markets, to a subsidiary of Dynegy. For further information about the sale of the Midwest Generation business, refer to Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions."

Substantially all of Duke Energy Ohio's operations that remain after the sale qualify for regulatory accounting.

Business Segments

Duke Energy Ohio has two reportable operating segments, Electric Utilities and Infrastructure and Gas Utilities and Infrastructure. For additional information on these business segments, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY INDIANA

Duke Energy Indiana is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Indiana. Duke Energy Indiana's service area covers 23,000 square miles and supplies electric service to 820,000 residential, commercial and industrial customers. See Item 2, "Properties" for further discussion of Duke Energy

PART I

Indiana's generating facilities, transmission and distribution. Duke Energy Indiana is subject to the regulatory provisions of the IURC and FERC.

Substantially all of Duke Energy Indiana's operations are regulated and qualify for regulatory accounting. Duke Energy Indiana operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

PIEDMONT

Piedmont is a regulated public utility primarily engaged in the distribution of natural gas to over 1 million residential, commercial, industrial and power generation customers in portions of North Carolina, South Carolina and Tennessee, including customers served by municipalities who are wholesale customers. Piedmont is subject to the regulatory provisions of the NCUC, PSCSC, TPUC and FERC.

Substantially all of Piedmont's operations are regulated and qualify for regulatory accounting. Piedmont operates one reportable business segment, Gas Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

ITEM 1A. RISK FACTORS

In addition to other disclosures within this Form 10-K, including "Management's Discussion and Analysis of Financial Condition and Results of Operations – Matters Impacting Future Results" for each registrant in Item 7, and other documents filed with the SEC from time to time, the following factors should be considered in evaluating Duke Energy and its subsidiaries. Such factors could affect actual results of operations and cause results to differ substantially from those currently expected or sought. Unless otherwise indicated, risk factors discussed below generally relate to risks associated with all of the Duke Energy Registrants. Risks identified at the Subsidiary Registrant level are generally applicable to Duke Energy.

BUSINESS STRATEGY RISKS

Duke Energy's future results could be adversely affected if it is unable to implement its business strategy.

Duke Energy's future results of operations depend, in significant part, on the extent to which it can implement its business strategy successfully. Duke Energy's strategy, including transforming the customer experience, modernizing the energy grid, generating cleaner energy, expansion of natural gas infrastructure, modernizing the regulatory construct and engaging employees and stakeholders to accomplish these priorities, is subject to business, economic and competitive uncertainties and contingencies, many of which are beyond its control. As a consequence, Duke Energy may not be able to fully implement or realize the anticipated results of its strategy.

REGULATORY, LEGISLATIVE AND LEGAL RISKS

The Duke Energy Registrants' regulated utility revenues, earnings and results are dependent on state legislation and regulation that affect electric generation, electric and natural gas transmission, distribution and related activities, which may limit their ability to recover costs.

The Duke Energy Registrants' regulated electric and natural gas utility businesses are regulated on a cost-of-service/rate-of-return basis subject to statutes and regulatory commission rules and procedures of North Carolina, South Carolina, Florida, Ohio, Tennessee, Indiana and Kentucky. If the Duke

Energy Registrants' regulated utility earnings exceed the returns established by the state utility commissions, retail electric and natural gas rates may be subject to review and possible reduction by the commissions, which may decrease the Duke Energy Registrants' future earnings. Additionally, if regulatory bodies do not allow recovery of costs incurred in providing service on a timely basis, the Duke Energy Registrants' future earnings could be negatively impacted.

If legislative and regulatory structures were to evolve in such a way that the Duke Energy Registrants' exclusive rights to serve their regulated customers were eroded, their future earnings could be negatively impacted. Federal and state regulations, laws and other efforts designed to promote and expand the use of energy efficiency measures and distributed generation technologies, such as private solar and battery storage, in Duke Energy service territories could result in customers leaving the electric distribution system and an increase in customer net energy metering, which allows customers with private solar to receive bill credits for surplus power at the full retail amount. Over time, customer adoption of these technologies and increased energy efficiency could result in excess generation resources as well as stranded costs if Duke Energy is not able to fully recover the costs and investment in generation.

State regulators have approved various mechanisms to stabilize natural gas utility margins, including margin decoupling in North Carolina, rate stabilization in South Carolina and uncollectible natural gas cost recovery in all states. State regulators have approved other margin stabilizing mechanisms that, for example, allow for recovery of margin losses associated with negotiated transactions designed to retain large volume customers that could use alternative fuels or that may otherwise directly access natural gas supply through their own connection to an interstate pipeline. If regulators decided to discontinue the Duke Energy Registrants' use of tariff mechanisms, it would negatively impact results of operations, financial condition and cash flows. In addition, regulatory authorities also review whether natural gas costs are prudent and can disallow the recovery of a portion of natural gas costs that the Duke Energy Registrants seek to recover from customers, which would adversely impact earnings.

The rates that the Duke Energy Registrants' regulated utility businesses are allowed to charge are established by state utility commissions in rate case proceedings, which may limit their ability to recover costs and earn an appropriate return on investment.

The rates that the Duke Energy Registrants' regulated utility business are allowed to charge significantly influences the results of operations, financial position and liquidity of the Duke Energy Registrants. The regulation of the rates that the regulated utility businesses charge customers is determined, in large part, by state utility commissions in rate case proceedings. Negative decisions made by these regulators could have a material adverse effect on the Duke Energy Registrants' results of operations, financial position or liquidity and affect the ability of the Duke Energy Registrants to recover costs and an appropriate return on the significant infrastructure investments being made. Duke Energy cannot predict the outcome of these rate case proceedings.

Deregulation or restructuring in the electric industry may result in increased competition and unrecovered costs that could adversely affect the Duke Energy Registrants' financial position, results of operations or cash flows and their utility businesses.

Increased competition resulting from deregulation or restructuring legislation could have a significant adverse impact on the Duke Energy Registrants' results of operations, financial position or cash flows. Retail competition and the unbundling of regulated electric service could have a significant adverse financial impact on the Duke Energy Registrants due to an impairment of assets, a loss of retail customers, lower profit margins or increased costs of capital. The Duke Energy Registrants cannot predict the

PART I

extent and timing of entry by additional competitors into the electric markets. The Duke Energy Registrants cannot predict if or when they will be subject to changes in legislation or regulation, nor can they predict the impact of these changes on their financial position, results of operations or cash flows.

The Duke Energy Registrants' businesses are subject to extensive federal regulation and a wide variety of laws and governmental policies, including taxes, that may change over time in ways that affect operations and costs.

Duke Energy is subject to regulations under a wide variety of U.S. federal and state regulations and policies. There can be no assurance that laws, regulations and policies will not be changed in ways that result in material modifications of business models and objectives or affect returns on investment by restricting activities and products, subjecting them to escalating costs or prohibiting them outright.

On December 22, 2017, President Trump signed the Tax Cuts and Jobs Acts (the Tax Act) into law which, among other provisions, reduces the maximum federal corporate income tax rate from 35 percent to 21 percent and limits interest deductions outside of regulated utility operations effective January 1, 2018. The resulting revaluation of existing deferred tax assets and liabilities to the lower federal corporate tax rate were recognized in Duke Energy's December 31, 2017, financial statements. Guidance issued by the SEC indicates that additional adjustments for items that were estimated may be recorded during 2018 if new information becomes available. The Tax Act also could be amended or subject to technical correction, which could change the financial impacts that were recorded at December 31, 2017, or are expected to be recorded in future periods. The FERC and state utility commissions will determine the regulatory treatment of the impacts of the Tax Act. Duke Energy's future results of operations, financial condition and cash flows could be adversely impacted by the Tax Act, subsequent amendments or corrections, or the actions of the FERC, state utility commissions or credit rating agencies related to the Tax Act.

The Duke Energy Registrants are subject to regulation by FERC, NRC, EPA and various other federal agencies as well as the North American Electric Reliability Corporation. Regulation affects almost every aspect of the Duke Energy Registrants' businesses, including, among other things, their ability to: take fundamental business management actions; determine the terms and rates of transmission and distribution services; make acquisitions; issue equity or debt securities; engage in transactions with other subsidiaries and affiliates; and pay dividends upstream to the Duke Energy Registrants. Changes to federal regulations are continuous and ongoing. The Duke Energy Registrants cannot predict the future course of regulatory changes or the ultimate effect those changes will have on their businesses. However, changes in regulation can cause delays in or affect business planning and transactions and can substantially increase the Duke Energy Registrants' costs.

The Duke Energy Registrants are subject to numerous environmental laws and regulations requiring significant capital expenditures that can increase the cost of operations, and which may impact or limit business plans, or cause exposure to environmental liabilities.

The Duke Energy Registrants are subject to numerous environmental laws and regulations affecting many aspects of their present and future operations, including CCRs, air emissions, water quality, wastewater discharges, solid waste and hazardous waste. These laws and regulations can result in increased capital, operating and other costs. These laws and regulations generally require the Duke Energy Registrants to obtain and comply with a wide variety of environmental licenses, permits, inspections and other approvals. Compliance with environmental laws and regulations can require significant expenditures, including expenditures for cleanup costs and damages arising from contaminated properties. Failure to comply with environmental regulations may result in the imposition of fines, penalties and injunctive measures

affecting operating assets. The steps the Duke Energy Registrants could be required to take to ensure their facilities are in compliance could be prohibitively expensive. As a result, the Duke Energy Registrants may be required to shut down or alter the operation of their facilities, which may cause the Duke Energy Registrants to incur losses. Further, the Duke Energy Registrants may not be successful in recovering capital and operating costs incurred to comply with new environmental regulations through existing regulatory rate structures and their contracts with customers. Also, the Duke Energy Registrants may not be able to obtain or maintain from time to time all required environmental regulatory approvals for their operating assets or development projects. Delays in obtaining any required environmental regulatory approvals, failure to obtain and comply with them or changes in environmental laws or regulations to more stringent compliance levels could result in additional costs of operation for existing facilities or development of new facilities being prevented, delayed or subject to additional costs. Although it is not expected that the costs to comply with current environmental regulations will have a material adverse effect on the Duke Energy Registrants' financial position, results of operations or cash flows due to regulatory cost recovery, the Duke Energy Registrants are at risk that the costs of complying with environmental regulations in the future will have such an effect.

The EPA has recently enacted or proposed new federal regulations governing the management of cooling water intake structures, wastewater and CO₂ emissions. These regulations may require the Duke Energy Registrants to make additional capital expenditures and increase operating and maintenance costs.

The Duke Energy Registrants' operations, capital expenditures and financial results may be affected by regulatory changes related to the impacts of global climate change.

There is continued concern, both nationally and internationally, about climate change. The EPA may adopt and implement regulations to restrict emissions of GHGs. Increased regulation of GHG emissions could impose significant additional costs on the Duke Energy Registrants' operations, their suppliers and customers. Regulatory changes could also result in generation facilities to be retired early and result in stranded costs if Duke Energy is not able to fully recover the costs and investment in generation. At this time, the effect that climate change regulation may have in the future on Duke Energy's business, financial condition or results of operations is not able to be predicted.

OPERATIONAL RISKS

The Duke Energy Registrants' results of operations may be negatively affected by overall market, economic and other conditions that are beyond their control.

Sustained downturns or sluggishness in the economy generally affect the markets in which the Duke Energy Registrants operate and negatively influence operations. Declines in demand for electricity or natural gas as a result of economic downturns in the Duke Energy Registrants' regulated service territories will reduce overall sales and lessen cash flows, especially as industrial customers reduce production and, therefore, consumption of electricity and the use of natural gas. Although the Duke Energy Registrants' regulated electric and natural gas businesses are subject to regulated allowable rates of return and recovery of certain costs, such as fuel and purchased natural gas costs, under periodic adjustment clauses, overall declines in electricity or natural gas sold as a result of economic downturn or recession could reduce revenues and cash flows, thereby diminishing results of operations. Additionally, prolonged economic downturns that negatively impact the Duke Energy Registrants' results of operations and cash flows could result in future material impairment charges to write-down the carrying value of certain assets, including goodwill, to their respective fair values.

PART I

The Duke Energy Registrants also sell electricity into the spot market or other competitive power markets on a contractual basis. With respect to such transactions, the Duke Energy Registrants are not guaranteed any rate of return on their capital investments through mandated rates, and revenues and results of operations are likely to depend, in large part, upon prevailing market prices. These market prices may fluctuate substantially over relatively short periods of time and could reduce the Duke Energy Registrants' revenues and margins, thereby diminishing results of operations.

Factors that could impact sales volumes, generation of electricity and market prices at which the Duke Energy Registrants are able to sell electricity and natural gas are as follows:

- weather conditions, including abnormally mild winter or summer weather that cause lower energy or natural gas usage for heating or cooling purposes, as applicable, and periods of low rainfall that decrease the ability to operate facilities in an economical manner;
- supply of and demand for energy commodities;
- transmission or transportation constraints or inefficiencies that impact nonregulated energy operations;
- availability of competitively priced alternative energy sources, which are preferred by some customers over electricity produced from coal, nuclear or natural gas plants, and customer usage of energy-efficient equipment that reduces energy demand;
- natural gas, crude oil and refined products production levels and prices;
- ability to procure satisfactory levels of inventory, such as coal, natural gas and uranium; and
- capacity and transmission service into, or out of, the Duke Energy Registrants' markets.

Natural disasters or operational accidents may adversely affect the Duke Energy Registrants' operating results.

Natural disasters (such as electromagnetic events or the 2011 earthquake and tsunami in Japan) or other operational accidents within the company or industry (such as the San Bruno, California natural gas transmission pipeline failure) could have direct significant impacts on the Duke Energy Registrants as well as on key contractors and suppliers. Such events could indirectly impact the Duke Energy Registrants through changes to policies, laws and regulations whose compliance costs have a significant impact on the Duke Energy Registrants' financial position, results of operations and cash flows.

The reputation and financial condition of the Duke Energy Registrants could be negatively impacted due to their obligations to comply with federal and state regulations, laws, and other legal requirements that govern the operations, assessments, storage, closure, remediation, disposal and monitoring relating to CCR, the high costs and new rate impacts associated with implementing these new CCR-related requirements and the strategies and methods necessary to implement these requirements in compliance with these legal obligations.

As a result of electricity produced for decades at coal-fired power plants, the Duke Energy Registrants manage large amounts of CCR that are primarily stored in dry storage within landfills or combined with water in other surface impoundments, all in compliance with applicable regulatory requirements. However, the potential exists for another CCR-related incident, such as the one that occurred during the 2014 Dan River Steam Station ash basin release, that could raise environmental or general public health concerns. Such a CCR-related incident could have a material adverse impact on the reputation and financial condition of the Duke Energy Registrants.

During 2015, EPA regulations were enacted related to the management of CCR from power plants. These regulations classify CCR as nonhazardous waste under the RCRA and apply to electric generating sites with new and existing landfills, new and existing surface impoundments, structural fills and CCR piles, and establishes requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring, protection and remedial procedures and other operational and reporting procedures for the disposal and management of CCR. In addition to the federal regulations, CCR landfills and surface impoundments will continue to be independently regulated by existing state laws, regulations and permits, as well as additional legal requirements that may be imposed in the future. These federal and state laws, regulations and other legal requirements may require or result in additional expenditures, increased operating and maintenance costs and/or result in closure of certain power generating facilities, which could affect the financial position, results of operations and cash flows of the Duke Energy Registrants. The Duke Energy Registrants intend to seek full cost recovery for expenditures through the normal ratemaking process with state and federal utility commissions, who permit recovery in rates of necessary and prudently incurred costs associated with the Duke Energy Registrants' regulated operations, and through other wholesale contracts with terms that contemplate recovery of such costs, although there is no guarantee of full cost recovery. In addition, the timing for recovery of such costs could have a material adverse impact on Duke Energy's cash flows.

The Duke Energy Registrants have recognized significant asset retirement obligations related to these CCR-related requirements. Closure activities began in 2015 at the four sites specified as high priority by the Coal Ash Act and at the W.S. Lee Steam Station site in South Carolina in connection with other legal requirements. Excavation at these sites involves movement of large amounts of CCR materials to off-site locations for use as structural fill, to appropriate engineered off-site or on-site lined landfills or conversion of the ash for beneficial use. At other sites, preliminary planning and closure methods have been studied and factored into the estimated retirement and management costs. The Coal Ash Act requires CCR surface impoundments in North Carolina to be closed, with the closure method and timing based on a risk ranking classification determined by legislation or state regulators. Additionally, the RCRA required closure timing depends upon meeting or continuing to meet certain criteria. As the closure and CCR management work progresses and final closure plans and corrective action measures are developed and approved at each site, the scope and complexity of work and the amount of CCR material could be greater than estimates and could, therefore, materially increase compliance expenditures and rate impacts.

The Duke Energy Registrants' financial position, results of operations and cash flows may be negatively affected by a lack of growth or slower growth in the number of customers, or decline in customer demand or number of customers.

Growth in customer accounts and growth of customer usage each directly influence demand for electricity and natural gas and the need for additional power generation and delivery facilities. Customer growth and customer usage are affected by a number of factors outside the control of the Duke Energy Registrants, such as mandated energy efficiency measures, demand-side management goals, distributed generation resources and economic and demographic conditions, such as population changes, job and income growth, housing starts, new business formation and the overall level of economic activity.

Certain regulatory and legislative bodies have introduced or are considering requirements and/or incentives to reduce energy consumption by certain dates. Additionally, technological advances driven by federal laws mandating new levels of energy efficiency in end-use electric devices or other improvements in or applications of technology could lead to declines in per capita energy consumption.

PART I

Advances in distributed generation technologies that produce power, including fuel cells, microturbines, wind turbines and solar cells, may reduce the cost of alternative methods of producing power to a level competitive with central power station electric production utilized by the Duke Energy Registrants.

Some or all of these factors could result in a lack of growth or decline in customer demand for electricity or number of customers and may cause the failure of the Duke Energy Registrants to fully realize anticipated benefits from significant capital investments and expenditures, which could have a material adverse effect on their financial position, results of operations and cash flows.

Furthermore, the Duke Energy Registrants currently have energy efficiency riders in place to recover the cost of energy efficiency programs in North Carolina, South Carolina, Florida, Indiana, Ohio and Kentucky. Should the Duke Energy Registrants be required to invest in conservation measures that result in reduced sales from effective conservation, regulatory lag in adjusting rates for the impact of these measures could have a negative financial impact.

The Duke Energy Registrants' operating results may fluctuate on a seasonal and quarterly basis and can be negatively affected by changes in weather conditions and severe weather, including extreme weather conditions associated with climate change.

Electric power generation and natural gas distribution are generally seasonal businesses. In most parts of the U.S., the demand for power peaks during the warmer summer months, with market prices also typically peaking at that time. In other areas, demand for power peaks during the winter. Demand for natural gas peaks during the winter months. Further, extreme weather conditions such as heat waves, winter storms and severe weather associated with climate change could cause these seasonal fluctuations to be more pronounced. As a result, the overall operating results of the Duke Energy Registrants' businesses may fluctuate substantially on a seasonal and quarterly basis and thus make period-to-period comparison less relevant.

Sustained severe drought conditions could impact generation by hydroelectric plants, as well as fossil and nuclear plant operations, as these facilities use water for cooling purposes and for the operation of environmental compliance equipment. Furthermore, destruction caused by severe weather events, such as hurricanes, tornadoes, severe thunderstorms, snow and ice storms, can result in lost operating revenues due to outages, property damage, including downed transmission and distribution lines, and additional and unexpected expenses to mitigate storm damage. The cost of storm restoration efforts may not be fully recoverable through the regulatory process.

The Duke Energy Registrants' sales may decrease if they are unable to gain adequate, reliable and affordable access to transmission assets.

The Duke Energy Registrants depend on transmission and distribution facilities owned and operated by utilities and other energy companies to deliver electricity sold to the wholesale market. The FERC's power transmission regulations require wholesale electric transmission services to be offered on an open-access, non-discriminatory basis. If transmission is disrupted, or if transmission capacity is inadequate, the Duke Energy Registrants' ability to sell and deliver products may be hindered.

The different regional power markets have changing regulatory structures, which could affect growth and performance in these regions. In addition, the ISOs who oversee the transmission systems in regional power markets have imposed in the past, and may impose in the future, price limitations and other mechanisms to address volatility in the power markets. These types of price limitations and other mechanisms may adversely impact the profitability of the Duke Energy Registrants' wholesale power marketing business.

Duke Energy may be unable to complete necessary or desirable pipeline expansion or infrastructure development or maintenance projects, which

may delay or prevent the Duke Energy Registrants from serving natural gas customers or expanding the natural gas business.

In order to serve current or new natural gas customers or expand the service to existing customers, the Duke Energy Registrants need to maintain, expand or upgrade distribution, transmission and/or storage infrastructure, including laying new pipeline and building compressor stations. Duke Energy Registrants have made significant investments in a number of pipeline development projects, which are being operated and constructed by third party joint venture partners. Various factors, such as the inability to obtain required approval from local, state and/or federal regulatory and governmental bodies, public opposition to projects, inability to obtain adequate financing, competition for labor and materials, construction delays, cost overruns and the inability to negotiate acceptable agreements relating to rights of way, construction or other material development components, may prevent or delay the completion of projects or increase costs. As a result, the Duke Energy Registrants may be unable to adequately serve existing natural gas customers or support customer growth or could incur higher than anticipated costs, which could have a negative financial impact.

The availability of adequate interstate pipeline transportation capacity and natural gas supply may decrease.

The Duke Energy Registrants purchase almost all of their natural gas supply from interstate sources that must be transported to the applicable service territories. Interstate pipeline companies transport the natural gas to the Duke Energy Registrants' systems under firm service agreements that are designed to meet the requirements of their core markets. A significant disruption to interstate pipelines capacity or reduction in natural gas supply due to events including, but not limited to, operational failures or disruptions, hurricanes, tornadoes, floods, freeze off of natural gas wells, terrorist or cyberattacks or other acts of war or legislative or regulatory actions or requirements, including remediation related to integrity inspections, could reduce the normal interstate supply of natural gas and thereby reduce earnings. Moreover, if additional natural gas infrastructure, including, but not limited to, exploration and drilling rigs and platforms, processing and gathering systems, off-shore pipelines, interstate pipelines and storage, cannot be built at a pace that meets demand, then growth opportunities could be limited and earnings negatively impacted.

Fluctuations in commodity prices or availability may adversely affect various aspects of the Duke Energy Registrants' operations as well as their financial condition, results of operations and cash flows.

The Duke Energy Registrants are exposed to the effects of market fluctuations in the price of natural gas, coal, fuel oil, nuclear fuel, electricity and other energy-related commodities as a result of their ownership of energy-related assets. Fuel costs are recovered primarily through cost-recovery clauses, subject to the approval of state utility commissions.

Additionally, the Duke Energy Registrants are exposed to risk that counterparties will not be able to fulfill their obligations. Disruption in the delivery of fuel, including disruptions as a result of, among other things, transportation delays, weather, labor relations, force majeure events or environmental regulations affecting any of these fuel suppliers, could limit the Duke Energy Registrants' ability to operate their facilities. Should counterparties fail to perform, the Duke Energy Registrants might be forced to replace the underlying commitment at prevailing market prices possibly resulting in losses in addition to the amounts, if any, already paid to the counterparties.

Certain of the Duke Energy Registrants' hedge agreements may result in the receipt of, or posting of, derivative collateral with counterparties, depending on the daily derivative position. Fluctuations in commodity prices that lead to the return of collateral received and/or the posting of collateral with counterparties negatively impact liquidity. Downgrades in the Duke

PART I

Energy Registrants' credit ratings could lead to additional collateral posting requirements. The Duke Energy Registrants continually monitor derivative positions in relation to market price activity.

Potential terrorist activities, or military or other actions, could adversely affect the Duke Energy Registrants' businesses.

The continued threat of terrorism and the impact of retaliatory military and other action by the U.S. and its allies may lead to increased political, economic and financial market instability and volatility in prices for natural gas and oil, which may have material adverse effects in ways the Duke Energy Registrants cannot predict at this time. In addition, future acts of terrorism and possible reprisals as a consequence of action by the U.S. and its allies could be directed against companies operating in the U.S. Information technology systems, transmission and distribution and generation facilities such as nuclear plants could be potential targets of terrorist activities or harmful activities by individuals or groups. The potential for terrorism has subjected the Duke Energy Registrants' operations to increased risks and could have a material adverse effect on their businesses. In particular, the Duke Energy Registrants may experience increased capital and operating costs to implement increased security for their information technology systems, transmission and distribution and generation facilities, including nuclear power plants under the NRC's design basis threat requirements. These increased costs could include additional physical plant security and security personnel or additional capability following a terrorist incident.

Cyberattacks and data security breaches could adversely affect the Duke Energy Registrants' businesses.

Information security risks have generally increased in recent years as a result of the proliferation of new technologies and the increased sophistication and frequency of cyberattacks and data security breaches. The utility industry requires the continued operation of sophisticated information technology systems and network infrastructure, which are part of an interconnected regional grid. Additionally, connectivity to the internet continues to increase through smart grid and other initiatives. Because of the critical nature of the infrastructure, increased connectivity to the internet and technology systems' inherent vulnerability to disability or failures due to hacking, viruses, acts of war or terrorism or other types of data security breaches, the Duke Energy Registrants face a heightened risk of cyberattack. In the event of such an attack, the Duke Energy Registrants could (i) have business operations disrupted, property damaged, customer information stolen and other private information accessed, (ii) experience substantial loss of revenues, repair and restoration costs, implementation costs for additional security measures to avert future cyberattacks and other financial loss and (iii) be subject to increased regulation, litigation and reputational damage.

Failure to attract and retain an appropriately qualified workforce could unfavorably impact the Duke Energy Registrants' results of operations.

Certain events, such as an aging workforce, mismatch of skill set or complement to future needs, or unavailability of contract resources may lead to operating challenges and increased costs. The challenges include lack of resources, loss of knowledge base and the lengthy time required for skill development. In this case, costs, including costs for contractors to replace employees, productivity costs and safety costs, may increase. Failure to hire and adequately train replacement employees, including the transfer of significant internal historical knowledge and expertise to new employees, or future availability and cost of contract labor may adversely affect the ability to

manage and operate the business, especially considering the workforce needs associated with nuclear generation facilities and new skills required to operate a modernized, technology-enabled power grid. If the Duke Energy Registrants are unable to successfully attract and retain an appropriately qualified workforce, their financial position, results of operations or cash flows could be negatively affected.

The costs of retiring Duke Energy Florida's Crystal River Unit 3 could prove to be more extensive than is currently identified.

Costs to retire and decommission the plant could exceed estimates and, if not recoverable through the regulatory process, could adversely affect Duke Energy's, Progress Energy's and Duke Energy Florida's financial condition, results of operations and cash flows.

Duke Energy Ohio's and Duke Energy Indiana's membership in an RTO presents risks that could have a material adverse effect on their results of operations, financial condition and cash flows.

The rules governing the various regional power markets may change, which could affect Duke Energy Ohio's and Duke Energy Indiana's costs and/or revenues. To the degree Duke Energy Ohio and Duke Energy Indiana incur significant additional fees and increased costs to participate in an RTO, their results of operations may be impacted. Duke Energy Ohio and Duke Energy Indiana may be allocated a portion of the cost of transmission facilities built by others due to changes in RTO transmission rate design. Duke Energy Ohio and Duke Energy Indiana may be required to expand their transmission system according to decisions made by an RTO rather than their own internal planning process. While RTO transmission rates were initially designed to be revenue neutral, various proposals and proceedings currently taking place by the FERC may cause transmission rates to change from time to time. In addition, RTOs have been developing rules associated with the allocation and methodology of assigning costs associated with improved transmission reliability, reduced transmission congestion and firm transmission rights that may have a financial impact on Duke Energy Ohio and Duke Energy Indiana.

As members of an RTO, Duke Energy Ohio and Duke Energy Indiana are subject to certain additional risks, including those associated with the allocation among RTO members, of losses caused by unreimbursed defaults of other participants in the RTO markets and those associated with complaint cases filed against an RTO that may seek refunds of revenues previously earned by RTO members.

The Duke Energy Registrants may not recover costs incurred to begin construction on projects that are canceled.

Duke Energy's long-term strategy requires the construction of new projects, either wholly owned or partially owned, which involve a number of risks, including construction delays, nonperformance by equipment and other third party suppliers, and increases in equipment and labor costs. To limit the risks of these construction projects, the Duke Energy Registrants enter into equipment purchase orders and construction contracts and incur engineering and design service costs in advance of receiving necessary regulatory approvals and/or siting or environmental permits. If any of these projects are canceled for any reason, including failure to receive necessary regulatory approvals and/or siting or environmental permits, significant cancellation penalties under the equipment purchase orders and construction contracts could occur. In addition, if any construction work or investments have been recorded as an asset, an impairment may need to be recorded in the event the project is canceled.

PART I

NUCLEAR GENERATION RISKS

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida may incur substantial costs and liabilities due to their ownership and operation of nuclear generating facilities.

Ownership interest in and operation of nuclear stations by Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida subject them to various risks. These risks include, among other things: the potential harmful effects on the environment and human health resulting from the current or past operation of nuclear facilities and the storage, handling and disposal of radioactive materials; limitations on the amounts and types of insurance commercially available to cover losses that might arise in connection with nuclear operations; and uncertainties with respect to the technological and financial aspects of decommissioning nuclear plants at the end of their licensed lives.

Ownership and operation of nuclear generation facilities requires compliance with licensing and safety-related requirements imposed by the NRC. In the event of non-compliance, the NRC may increase regulatory oversight, impose fines or shut down a unit depending upon its assessment of the severity of the situation. Revised security and safety requirements promulgated by the NRC, which could be prompted by, among other things, events within or outside of the control of Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, such as a serious nuclear incident at a facility owned by a third party, could necessitate substantial capital and other expenditures, as well as assessments to cover third-party losses. In addition, if a serious nuclear incident were to occur, it could have a material adverse effect on the results of operations, financial condition, cash flows and reputation of the Duke Energy Registrants.

LIQUIDITY, CAPITAL REQUIREMENTS AND COMMON STOCK RISKS

The Duke Energy Registrants rely on access to short-term borrowings and longer-term debt and equity markets to finance their capital requirements and support their liquidity needs. Access to those markets can be adversely affected by a number of conditions, many of which are beyond the Duke Energy Registrants' control.

The Duke Energy Registrants' businesses are significantly financed through issuances of debt and equity. The maturity and repayment profile of debt used to finance investments often does not correlate to cash flows from their assets. Accordingly, as a source of liquidity for capital requirements not satisfied by the cash flows from their operations and to fund investments originally financed through debt instruments with disparate maturities, the Duke Energy Registrants rely on access to short-term money markets as well as longer-term capital markets. The Subsidiary Registrants also rely on access to short-term intercompany borrowings. If the Duke Energy Registrants are not able to access debt or equity at competitive rates or at all, the ability to finance their operations and implement their strategy and business plan as scheduled could be adversely affected. An inability to access debt and equity may limit the Duke Energy Registrants' ability to pursue improvements or acquisitions that they may otherwise rely on for future growth.

Market disruptions may increase the cost of borrowing or adversely affect the ability to access one or more financial markets. Such disruptions could include: economic downturns, the bankruptcy of an unrelated energy company, unfavorable capital market conditions, market prices for electricity and natural gas, actual or threatened terrorist attacks, or the overall health of the energy industry. The availability of credit under Duke Energy's Master Credit Facility depends upon the ability of the banks providing commitments under the facility to provide funds when their obligations to do so arise. Systematic risk of the banking system and the financial markets could prevent a bank from meeting its obligations under the facility agreement.

Duke Energy maintains a revolving credit facility to provide backup for its commercial paper program and letters of credit to support variable rate demand tax-exempt bonds that may be put to the Duke Energy Registrant issuer at the option of the holder. The facility includes borrowing sublimits for the Duke Energy Registrants, each of whom is a party to the credit facility, and financial covenants that limit the amount of debt that can be outstanding as a percentage of the total capital for the specific entity. Failure to maintain these covenants at a particular entity could preclude Duke Energy from issuing commercial paper or the Duke Energy Registrants from issuing letters of credit or borrowing under the Master Credit Facility.

The Duke Energy Registrants must meet credit quality standards and there is no assurance they will maintain investment grade credit ratings. If the Duke Energy Registrants are unable to maintain investment grade credit ratings, they would be required under credit agreements to provide collateral in the form of letters of credit or cash, which may materially adversely affect their liquidity.

Each of the Duke Energy Registrants' senior long-term debt issuances is currently rated investment grade by various rating agencies. The Duke Energy Registrants cannot ensure their senior long-term debt will be rated investment grade in the future.

If the rating agencies were to rate the Duke Energy Registrants below investment grade, borrowing costs would increase, perhaps significantly. In addition, the potential pool of investors and funding sources would likely decrease. Further, if the short-term debt rating were to fall, access to the commercial paper market could be significantly limited.

A downgrade below investment grade could also require the posting of additional collateral in the form of letters of credit or cash under various credit, commodity and capacity agreements and trigger termination clauses in some interest rate derivative agreements, which would require cash payments. All of these events would likely reduce the Duke Energy Registrants' liquidity and profitability and could have a material effect on their financial position, results of operations or cash flows.

Non-compliance with debt covenants or conditions could adversely affect the Duke Energy Registrants' ability to execute future borrowings.

The Duke Energy Registrants' debt and credit agreements contain various financial and other covenants. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements.

Market performance and other changes may decrease the value of the NDTF investments of Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, which then could require significant additional funding.

Ownership and operation of nuclear generation facilities also requires the maintenance of funded trusts that are intended to pay for the decommissioning costs of the respective nuclear power plants. The performance of the capital markets affects the values of the assets held in trust to satisfy these future obligations. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida have significant obligations in this area and hold significant assets in these trusts. These assets are subject to market fluctuations and will yield uncertain returns, which may fall below projected rates of return. Although a number of factors impact funding requirements, a decline in the market value of the assets may increase the funding requirements of the obligations for decommissioning nuclear plants. If Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are unable to successfully manage their NDTF assets, their financial condition, results of operations and cash flows could be negatively affected.

PART I

Poor investment performance of the Duke Energy pension plan holdings and other factors impacting pension plan costs could unfavorably impact the Duke Energy Registrants' liquidity and results of operations.

The costs of providing non-contributory defined benefit pension plans are dependent upon a number of factors, such as the rates of return on plan assets, discount rates, the level of interest rates used to measure the required minimum funding levels of the plans, future government regulation and required or voluntary contributions made to the plans. The Subsidiary Registrants are allocated their proportionate share of the cost and obligations related to these plans. Without sustained growth in the pension investments over time to increase the value of plan assets and, depending upon the other factors impacting costs as listed above, Duke Energy could be required to fund its plans with significant amounts of cash. Such cash funding obligations, and the Subsidiary Registrants' proportionate share of such cash funding obligations, could have a material impact on the Duke Energy Registrants' financial position, results of operations or cash flows.

Duke Energy is a holding company and depends on the cash flows from its subsidiaries to meet its financial obligations.

Because Duke Energy is a holding company with no operations or cash flows of its own, its ability to meet its financial obligations, including making interest and principal payments on outstanding indebtedness and to pay dividends on its common stock, is primarily dependent on the net income and cash flows of its subsidiaries and the ability of those subsidiaries to pay upstream dividends or to repay borrowed funds. Prior to funding Duke Energy, its subsidiaries have regulatory restrictions and financial obligations that must be satisfied. These subsidiaries are separate legal entities and have no obligation to provide Duke Energy with funds. In addition, Duke Energy may provide capital contributions or debt financing to its subsidiaries under certain circumstances, which would reduce the funds available to meet its financial obligations, including making interest and principal payments on outstanding indebtedness and to pay dividends on Duke Energy's common stock.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

ELECTRIC UTILITIES AND INFRASTRUCTURE

The following table provides information related to the Electric Utilities and Infrastructure's generation stations as of December 31, 2017. The MW displayed in the table below are based on summer capacity. Ownership interest in all facilities is 100 percent unless otherwise indicated.

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Carolinas				
Oconee	Nuclear	Uranium	SC	2,554
McGuire	Nuclear	Uranium	NC	2,316
Catawba ^(a)	Nuclear	Uranium	SC	445
Belews Creek	Fossil	Coal	NC	2,220
Marshall	Fossil	Coal	NC	2,058
J.E. Rogers	Fossil	Coal	NC	1,388
Lincoln Combustion Turbine (CT)	Fossil	Gas/Oil	NC	1,193
Allen	Fossil	Coal	NC	1,098
Rockingham CT	Fossil	Gas/Oil	NC	825
Buck Combined Cycle (CC)	Fossil	Gas	NC	668
Dan River CC	Fossil	Gas	NC	662
Mill Creek CT	Fossil	Gas/Oil	SC	563
W.S. Lee	Fossil	Gas	SC	170
W.S. Lee CT	Fossil	Gas/Oil	SC	84
Bad Creek	Hydro	Water	SC	1,360
Jocassee	Hydro	Water	SC	780
Cowans Ford	Hydro	Water	NC	324
Keowee	Hydro	Water	SC	152
Other small facilities (25 plants)	Hydro	Water	NC/SC	669
Distributed generation	Renewable	Solar	NC	39
Total Duke Energy Carolinas				19,568

PART I

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Progress				
Brunswick	Nuclear	Uranium	NC	1,870
Harris	Nuclear	Uranium	NC	928
Robinson	Nuclear	Uranium	SC	741
Roxboro	Fossil	Coal	NC	2,439
Smith CC	Fossil	Gas/Oil	NC	1,073
H.F. Lee CC	Fossil	Gas/Oil	NC	888
Wayne County CT	Fossil	Gas/Oil	NC	857
Smith CT	Fossil	Gas/Oil	NC	772
Darlington CT	Fossil	Gas/Oil	SC	664
Mayo	Fossil	Coal	NC	727
L.V. Sutton CC	Fossil	Gas/Oil	NC	607
Asheville	Fossil	Coal	NC	378
Asheville CT	Fossil	Gas/Oil	NC	320
Weatherspoon CT	Fossil	Gas/Oil	NC	124
L.V. Sutton CT (Black Start)	Fossil	Gas/Oil	NC	80
Blewett CT	Fossil	Oil	NC	52
Walters	Hydro	Water	NC	112
Other small facilities (three plants)	Hydro	Water	NC	115
Distributed generation	Renewable	Solar	NC	62
Total Duke Energy Progress				12,809
Duke Energy Florida				
Crystal River	Fossil	Coal	FL	2,188
Hines CC	Fossil	Gas/Oil	FL	2,032
Bartow CC	Fossil	Gas/Oil	FL	1,080
Anclote	Fossil	Gas	FL	1,013
Intercession City CT	Fossil	Gas/Oil	FL	951
Osprey CC	Fossil	Gas/Oil	FL	582
DeBary CT	Fossil	Gas/Oil	FL	561
Tiger Bay CC	Fossil	Gas/Oil	FL	200
Bartow CT	Fossil	Gas/Oil	FL	168
Bayboro CT	Fossil	Oil	FL	171
Suwannee River CT	Fossil	Gas	FL	149
Higgins CT	Fossil	Gas/Oil	FL	107
Avon Park CT	Fossil	Gas/Oil	FL	48
University of Florida CoGen CT	Fossil	Gas	FL	47
Distributed generation	Renewable	Solar	FL	8
Total Duke Energy Florida				9,305
Duke Energy Ohio				
East Bend	Fossil	Coal	KY	600
Woodsdale CT	Fossil	Gas/Propane	OH	476
Beckjord Battery Storage	Renewable	Storage	OH	4
Total Duke Energy Ohio				1,080
Duke Energy Indiana				
Gibson ^(b)	Fossil	Coal	IN	2,822
Cayuga ^(c)	Fossil	Coal/Oil	IN	1,005
Edwardsport	Fossil	Coal	IN	595
Madison CT	Fossil	Gas	OH	566
Vermillion CT ^(d)	Fossil	Gas	IN	360
Wheatland CT	Fossil	Gas	IN	450
Noblesville CC	Fossil	Gas/Oil	IN	264
Gallagher	Fossil	Coal	IN	280
Henry County CT	Fossil	Gas/Oil	IN	129
Cayuga CT	Fossil	Gas/Oil	IN	80
Connersville CT	Fossil	Oil	IN	74
Miami Wabash CT	Fossil	Oil	IN	64
Markland	Hydro	Water	IN	45
Distributed generation	Renewable	Solar	IN	10
Total Duke Energy Indiana				6,744

PART I

Totals by Type	Owned MW Capacity
Total Electric Utilities	49,506
Totals By Plant Type	
Nuclear	8,854
Fossil	36,972
Hydro	3,557
Renewable	123
Total Electric Utilities	49,506

- (a) Jointly owned with North Carolina Municipal Power Agency Number 1, North Carolina Electric Membership Corporation and Piedmont Municipal Power Agency. Duke Energy Carolinas' ownership is 19.25 percent of the facility.
- (b) Duke Energy Indiana owns and operates Gibson Station Units 1 through 4 and is a joint owner of unit 5 with Wabash Valley Power Association, Inc. (WVPA) and Indiana Municipal Power Agency. Duke Energy Indiana operates unit 5 and owns 50.05 percent.
- (c) Includes Cayuga Internal Combustion.
- (d) Jointly owned with WVPA. Duke Energy Indiana's ownership is 62.5 percent of the facility.

The following table provides information related to Electric Utilities and Infrastructure's electric transmission and distribution properties as of December 31, 2017.

	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Electric Transmission Lines						
Miles of 500 to 525 kilovolt (kV)	1,100	600	300	200	—	—
Miles of 345 kV	1,700	—	—	—	1,000	700
Miles of 230 kV	8,400	2,700	3,400	1,600	—	700
Miles of 100 to 161 kV	12,300	6,800	2,500	900	700	1,400
Miles of 13 to 69 kV	8,400	3,000	—	2,200	700	2,500
Total conductor miles of electric transmission lines	31,900	13,100	6,200	4,900	2,400	5,300
Electric Distribution Lines						
Miles of overhead lines	174,300	66,600	46,400	25,200	13,700	22,400
Miles of underground line	102,800	37,800	29,400	20,800	5,900	8,900
Total conductor miles of electric distribution lines	277,100	104,400	75,800	46,000	19,600	31,300
Number of electric transmission and distribution substations	3,300	1,500	500	500	300	500

Substantially all of Electric Utilities and Infrastructure's electric plant in service is mortgaged under indentures relating to Duke Energy Carolinas', Duke Energy Progress', Duke Energy Florida's, Duke Energy Ohio's and Duke Energy Indiana's various series of First Mortgage Bonds.

GAS UTILITIES AND INFRASTRUCTURE

Gas Utilities and Infrastructure owns transmission pipelines and distribution mains that are generally underground, located near public streets and highways, or on property owned by others for which Duke Energy Ohio and Piedmont have obtained the necessary legal rights to place and operate facilities on such property located within the Gas Utilities and Infrastructure service territories. The following table provides information related to Gas Utilities and Infrastructure's natural gas distribution.

	Duke Energy	Duke Energy Ohio	Piedmont
Miles of natural gas distribution and transmission pipelines	33,100	7,200	25,900
Miles of natural gas service lines	27,400	6,900	20,500

PART I

COMMERCIAL RENEWABLES

The following table provides information related to Commercial Renewables' electric generation facilities as of December 31, 2017. The MW displayed in the table below are based on nameplate capacity. Ownership interest in all facilities is 100 percent unless otherwise indicated.

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Commercial Renewables – Wind				
Los Vientos Windpower (five sites)	Renewable	Wind	TX	912
Top of the World	Renewable	Wind	WY	200
Frontier	Renewable	Wind	OK	200
Notrees	Renewable	Wind	TX	153
Campbell Hill	Renewable	Wind	WY	99
North Allegheny	Renewable	Wind	PA	70
Laurel Hill Wind Energy	Renewable	Wind	PA	69
Ocotillo	Renewable	Wind	TX	59
Kit Carson	Renewable	Wind	CO	51
Silver Sage	Renewable	Wind	WY	42
Happy Jack	Renewable	Wind	WY	29
Shirley	Renewable	Wind	WI	20
Sweetwater IV ^(a)	Renewable	Wind	TX	113
Sweetwater V ^(a)	Renewable	Wind	TX	38
Ironwood ^(a)	Renewable	Wind	KS	84
Cimarron II ^(a)	Renewable	Wind	KS	66
Mesquite Creek ^(a)	Renewable	Wind	TX	106
Total Renewables – Wind				2,311
Commercial Renewables – Solar				
Conetoe II	Renewable	Solar	NC	80
Seville I & II	Renewable	Solar	CA	50
Rio Bravo I & II	Renewable	Solar	CA	40
Wildwood I & II	Renewable	Solar	CA	35
Caprock	Renewable	Solar	NM	25
Kelford	Renewable	Solar	NC	22
Highlander	Renewable	Solar	CA	21
Dogwood	Renewable	Solar	NC	20
Halifax Airport	Renewable	Solar	NC	20
Pasquotank	Renewable	Solar	NC	20
Pumpjack	Renewable	Solar	CA	20
Shawboro	Renewable	Solar	NC	20
Longboat	Renewable	Solar	CA	20
Bagdad	Renewable	Solar	AZ	15
TX Solar	Renewable	Solar	TX	14
Creswell Alligood	Renewable	Solar	NC	14
Victory	Renewable	Solar	CO	13
Washington White Post	Renewable	Solar	NC	12
Whitakers	Renewable	Solar	NC	12
Other small solar	Renewable	Solar	Various	123
Total Renewables – Solar				596
Total Commercial Renewables				2,907

(a) Commercial Renewables owns 47 percent of Sweetwater IV and V and 50 percent of Ironwood, Cimarron II and Mesquite Creek.

PART I

OTHER

Duke Energy owns approximately 8 million square feet and leases approximately 2 million square feet of corporate, regional and district office space spread throughout its service territories.

ITEM 3. LEGAL PROCEEDINGS

For information regarding legal proceedings, including regulatory and environmental matters, see Note 4, "Regulatory Matters," and Note 5, "Commitments and Contingencies," to the Consolidated Financial Statements.

MTBE Litigation

On June 19, 2014, the Commonwealth of Pennsylvania filed suit against, among others, Duke Energy Merchants, alleging contamination of "waters of the state" by MTBE from leaking gasoline storage tanks. MTBE is a gasoline additive intended to increase the oxygen level in gasoline and make it burn cleaner. The lawsuit was moved to federal court and consolidated into an existing multidistrict litigation docket of pending MTBE cases. This suit was settled for an immaterial amount in December 2017.

In December 2017, the state of Maryland filed a lawsuit in Baltimore City Circuit Court against Duke Energy Merchants and other defendants alleging contamination of its water supplies from MTBE. Discovery is underway. Duke Energy cannot predict the outcome of this matter.

ITEM 4. MINE SAFETY DISCLOSURES

This is not applicable for any of the Duke Energy Registrants.

PART II

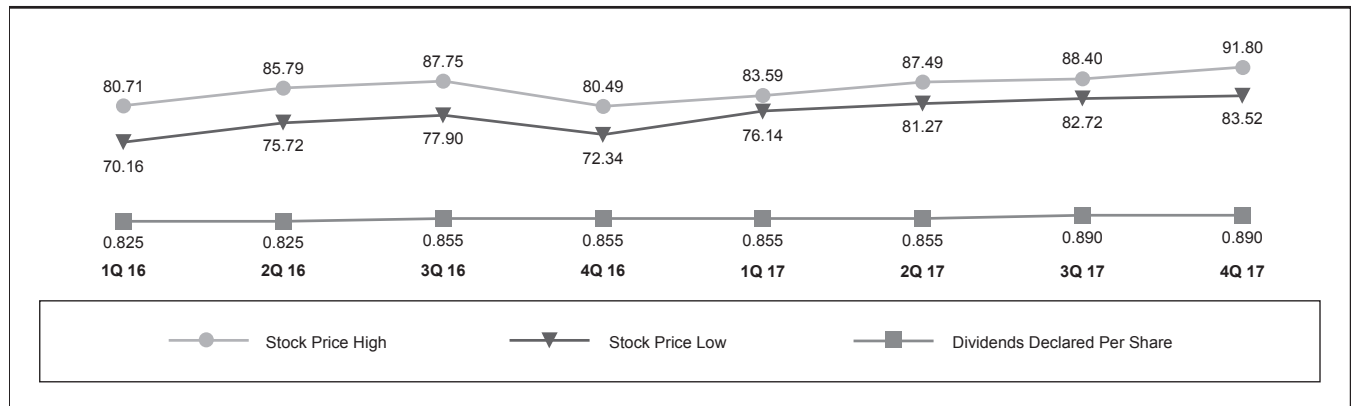
ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

The common stock of Duke Energy is listed and traded on the New York Stock Exchange (NYSE) (ticker symbol DUK). As of January 31, 2018, there were 166,271 Duke Energy common stockholders of record.

There is no market for common stock of the Subsidiary Registrants, all of which is owned by Duke Energy.

Common Stock Data by Quarter

The following chart provides Duke Energy common stock trading prices as reported on the NYSE and information on common stock dividends declared. Stock prices represent the intraday high and low stock price.



Duke Energy expects to continue its policy of paying regular cash dividends; however, there is no assurance as to the amount of future dividends as they depend on future earnings, capital requirements and financial condition, and are subject to declaration by the Duke Energy Board of Directors.

Duke Energy's operating subsidiaries have certain restrictions on their ability to transfer funds in the form of dividends or loans to Duke Energy. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters" for further information regarding these restrictions.

Securities Authorized for Issuance Under Equity Compensation Plans

See Item 12 of Part III within this Annual Report for information regarding Securities Authorized for Issuance Under Equity Compensation Plans.

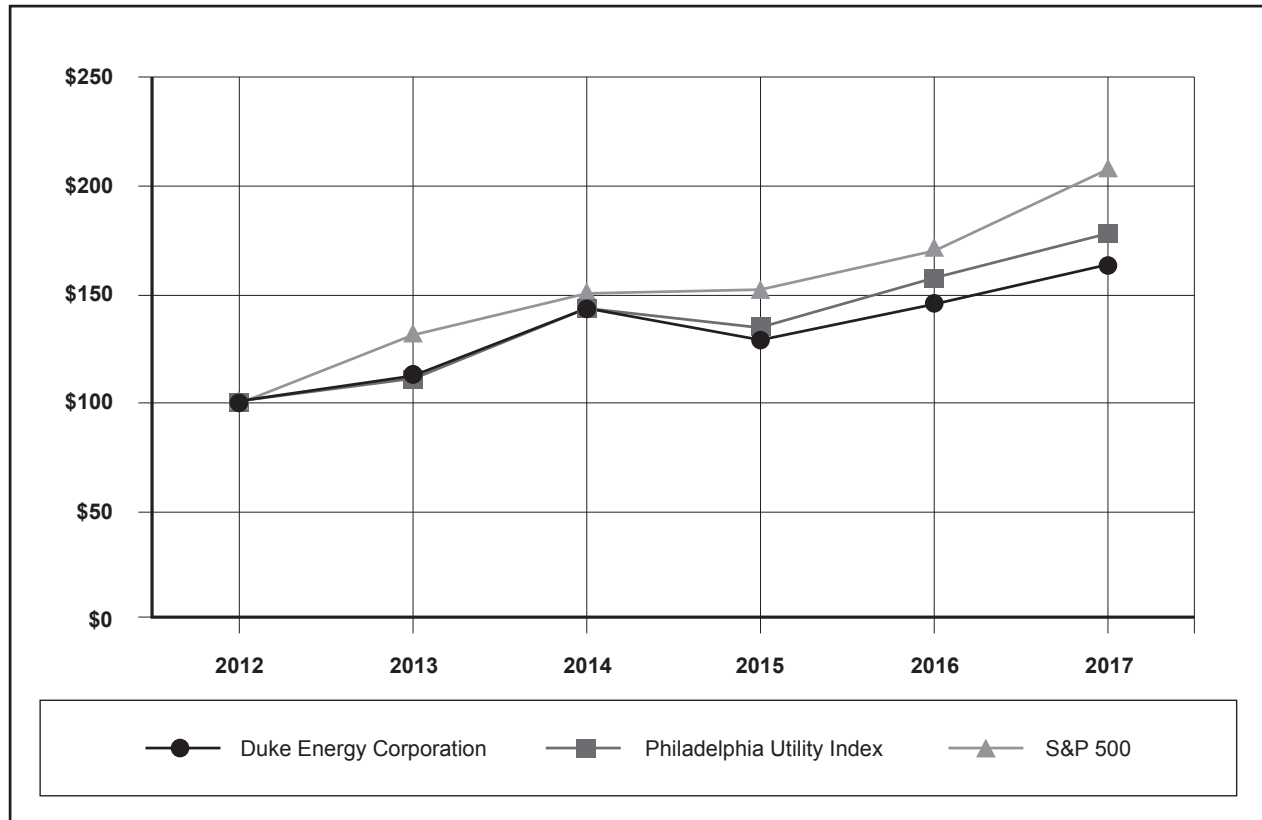
Issuer Purchases of Equity Securities for Fourth Quarter 2017

There were no repurchases of equity securities during the fourth quarter of 2017.

PART II

Stock Performance Graph

The following performance graph compares the cumulative total shareholder return from Duke Energy Corporation common stock, as compared with the Standard & Poor's 500 Stock Index (S&P 500) and the Philadelphia Utility Sector Index (Philadelphia Utility Index) for the past five years. The graph assumes an initial investment of \$100 on December 31, 2012, in Duke Energy common stock, in the S&P 500 and in the Philadelphia Utility Index and that all dividends were reinvested. The stockholder return shown below for the five-year historical period may not be indicative of future performance.



NYSE CEO Certification

Duke Energy has filed the certification of its Chief Executive Officer and Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 as exhibits to this Annual Report on Form 10-K for the year ended December 31, 2017.

PART II

ITEM 6. SELECTED FINANCIAL DATA

The following table provides selected financial data for the years of 2013 through 2017. See also Item 7.

(in millions, except per share amounts)	2017	2016	2015	2014	2013
Statement of Operations^(a)					
Total operating revenues	\$ 23,565	\$ 22,743	\$ 22,371	\$ 22,509	\$ 21,211
Operating income	5,781	5,341	5,078	4,842	4,305
Income from continuing operations	3,070	2,578	2,654	2,538	2,278
(Loss) Income from discontinued operations, net of tax	(6)	(408)	177	(649)	398
Net income	3,064	2,170	2,831	1,889	2,676
Net income attributable to Duke Energy Corporation	3,059	2,152	2,816	1,883	2,665
Common Stock Data					
Income from continuing operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ 4.37	\$ 3.71	\$ 3.80	\$ 3.58	\$ 3.21
Diluted	4.37	3.71	3.80	3.58	3.21
(Loss) Income from discontinued operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ (0.01)	\$ (0.60)	\$ 0.25	\$ (0.92)	\$ 0.56
Diluted	(0.01)	(0.60)	0.25	(0.92)	0.55
Net income attributable to Duke Energy Corporation common stockholders					
Basic	\$ 4.36	\$ 3.11	\$ 4.05	\$ 2.66	\$ 3.77
Diluted	4.36	3.11	4.05	2.66	3.76
Dividends declared per share of common stock	3.49	3.36	3.24	3.15	3.09
Balance Sheet					
Total assets	\$ 137,914	\$ 132,761	\$ 121,156	\$ 120,557	\$ 114,779
Long-term debt including capital leases, less current maturities	49,035	45,576	36,842	36,075	37,065

(a) Significant transactions reflected in the results above include: (i) the sale of the International Disposal Group in 2016, including a loss on sale recorded within discontinued operations (see Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions") (ii) the acquisition of Piedmont in 2016, including losses on interest rate swaps related to the acquisition financing (see Note 2); (iii) 2014 impairment related to the disposal of the Midwest Generation Disposal Group; (iv) 2014 incremental tax expense resulting from the decision to repatriate all cumulative historical undistributed foreign earnings; (v) 2014 increase in the litigation reserve related to a criminal investigation of the Dan River release; (vi) 2013 charges related to Crystal River Unit 3 and nuclear development costs; and (vii) costs to achieve mergers in all periods.

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Management's Discussion and Analysis includes financial information prepared in accordance with generally accepted accounting principles (GAAP) in the United States (U.S.), as well as certain non-GAAP financial measures such as adjusted earnings and adjusted earnings per share discussed below. Generally, a non-GAAP financial measure is a numerical measure of financial performance, financial position or cash flows that excludes (or includes) amounts that are included in (or excluded from) the most directly comparable measure calculated and presented in accordance with GAAP. The non-GAAP financial measures should be viewed as a supplement to, and not a substitute for, financial measures presented in accordance with GAAP. Non-GAAP measures as presented herein may not be comparable to similarly titled measures used by other companies.

The following combined Management's Discussion and Analysis of Financial Condition and Results of Operations is separately filed by Duke Energy Corporation (collectively with its subsidiaries, Duke Energy) and its subsidiaries Duke Energy Carolinas, LLC (Duke Energy Carolinas), Progress Energy, Inc. (Progress Energy), Duke Energy Progress, LLC (Duke Energy Progress), Duke Energy Florida, LLC (Duke Energy Florida), Duke Energy Ohio, Inc. (Duke Energy Ohio), Duke Energy Indiana, LLC (Duke Energy Indiana) and Piedmont Natural Gas Company, Inc. (Piedmont). However, none of the registrants make any representation as to information related solely to Duke Energy or the subsidiary registrants of Duke Energy other than itself. Subsequent to Duke Energy's acquisition of Piedmont on October 3, 2016, Piedmont is a wholly owned subsidiary of Duke Energy. The financial information for Duke Energy includes results of Piedmont subsequent to October 3, 2016. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information regarding the acquisition.

DUKE ENERGY

Duke Energy is an energy company headquartered in Charlotte, North Carolina. Duke Energy operates in the U.S. primarily through its wholly owned subsidiaries, Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont. When discussing Duke Energy's consolidated financial information, it necessarily includes the results of the Subsidiary Registrants, which, along with Duke Energy, are collectively referred to as the Duke Energy Registrants.

Management's Discussion and Analysis should be read in conjunction with the Consolidated Financial Statements and Notes for the years ended December 31, 2017, 2016 and 2015.

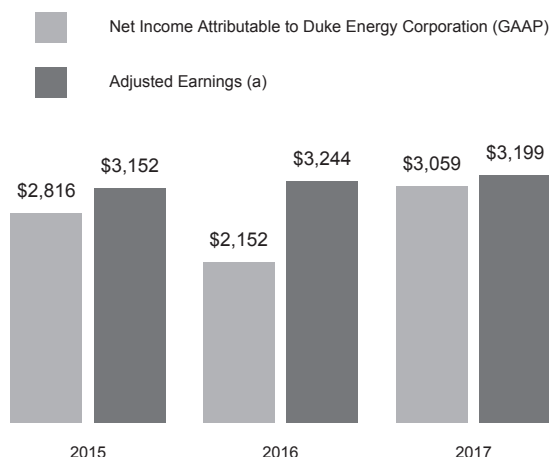
Executive Overview

With our multiyear portfolio transition complete, we operated in 2017 as a domestic, regulated energy infrastructure business. Our long-term view provides a compelling vision to advance our strategy, leveraging scale and a focused portfolio to deliver a reliable dividend with 4 to 6 percent earnings per share (EPS) growth during our five year planning horizon. We have made progress advancing our long-term strategy to invest in our growth drivers of cleaner energy, grid modernization and natural gas infrastructure, while also improving customer satisfaction.

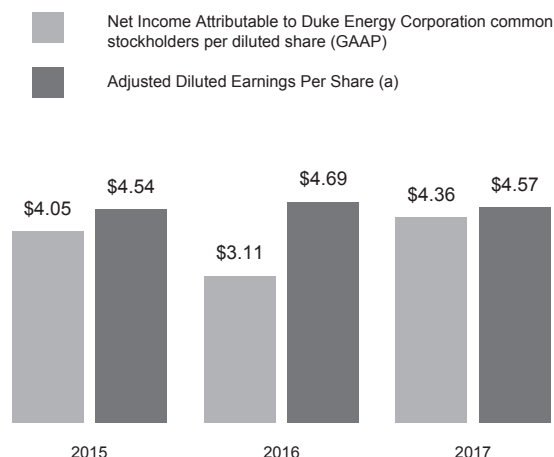
PART II

Financial Results

Annual Earnings (in millions)



Annual Earnings Per Diluted Share



(a) See Results of Operations below for Duke Energy's definition of adjusted earnings and adjusted earnings per share as well as a reconciliation of this non-GAAP financial measure to net income attributable to Duke Energy and net income attributable to Duke Energy per diluted share.

Duke Energy's 2017 GAAP reported earnings were impacted by unfavorable weather and the absence of International Energy partially offset by growth in the electric and gas businesses, including the addition of a full year's earnings contribution from Piedmont and ongoing cost management efforts. See "Results of Operations" below for a detailed discussion of the consolidated results of operations, as well as a detailed discussion of financial results for each of Duke Energy's reportable business segments, as well as Other.

2017 Areas of Focus and Accomplishments

Duke Energy advanced a number of important strategic initiatives to transform its energy future with a focus on customers, employees, operations and growth. The company has responded to an environment of changing customer demands by investing in electric and natural gas infrastructure that customers value and that provide an opportunity for sustainable growth.

Portfolio Transition. On October 3, 2016, Duke Energy completed the acquisition of Piedmont, a North Carolina corporation primarily engaged in regulated natural gas distribution to residential, commercial, industrial and power generation customers in portions of North Carolina, South Carolina and Tennessee. In December 2016, Duke Energy completed the sale of its Latin American generation businesses in two separate transactions. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information regarding these transactions.

With the acquisition of Piedmont and the sale of International Energy, Duke Energy completed a multiyear portfolio transition. The Piedmont acquisition reflects the growing importance of natural gas to the future of the energy infrastructure within the company's service territory and throughout the U.S. and establishes a strategic platform for future growth in natural gas infrastructure. The growth opportunities reflected in our 10-year strategy are expected to increase the earnings contributions from the natural gas business from 8 percent to 15 percent.

Operational Excellence. Duke Energy continues to focus on the safe and efficient operation of its generation fleet. During 2017, we delivered strong overall safety and environmental performance, with our key employee safety metric, total incident case rate, and our reportable environmental events both improving from last year. Our nuclear and fossil/hydro generation fleets demonstrated strong performance, exceeding their respective reliability targets.

Storm Response and System Restoration. Hurricane Irma, in October 2017, was one of the most powerful storms ever to hit the southern U.S. During Hurricane Irma, over 1.3 million customers in Florida were without power. Our restoration efforts involved coordination and communication with more than 12,000 line and fieldworkers and our team restored power to 99 percent of customers within eight days.

Customer Satisfaction. Higher J.D. Power residential customer satisfaction scores in 2017 reflect progress in the company's efforts to meet customers' expectations. The work to improve customer satisfaction will continue, but all jurisdictions remain on track to make steady gains in the years ahead as Duke Energy continues to transform the customer experience through its Customer Connect Program.

Constructive Regulatory Outcomes. One of our long-term strategic goals is to achieve modernized regulatory constructs in all of our jurisdictions within 10 years. Modernized constructs provide a number of benefits, including improved earnings and cash flows through more timely recovery of investments, as well as stable pricing for customers. We filed several base rate cases during 2017 to recover a range of strategic investments, such as customer service technologies, coal ash costs in the Carolinas, smart meters, natural gas and solar generation. We continue to pursue additional legislative and regulatory outcomes, both in Washington and across our service territories, that make sense for our customers and investors.

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PART II

Cost Management and Efficiencies. Duke Energy has a demonstrated track record of driving efficiencies and productivity, including merger integration and continuous improvement efforts. These efficiencies will help in Duke Energy's objective to keep overall customer rates below the national average, while moderating customer bill increases over time. We are on track to exceed targeted Piedmont merger cost synergies without significant disruptions to the business or culture, integrating the Piedmont and Midwest natural gas operations, and moving to a shared services model. We continue to leverage new technology and data analytics to drive additional efficiencies across the business.

Dividend Growth. In 2017, Duke Energy continued to grow the dividend payment to shareholders by approximately 4 percent. 2017 represented the 91st consecutive year Duke Energy paid a cash dividend on its common stock.

Duke Energy Objectives – 2018 and Beyond

Duke Energy will continue to deliver exceptional value to customers, be an integral part of the communities in which it does business, and provide attractive returns to investors. Duke Energy is committed to lead the way to cleaner, smarter energy solutions that customers value through a strategy focused on:

- Transformation of the customer experience to meet changing customer expectations through enhanced convenience, control and choice in energy supply and usage.
- Modernization of the electric grid, including smart meters, storm hardening, self-healing and targeted undergrounding to ensure the system is better prepared for severe weather and to improve the system's reliability and flexibility, as well as to provide better information and services for customers.
- Generation of cleaner energy through an increased amount of natural gas, renewables generation and the continued safe and reliable operation of nuclear plants.
- Expansion of natural gas infrastructure, from midstream gas pipelines to local distribution systems.
- Operational excellence through engagement with employees and being an industry leader in safety performance and efficient operations.
- Stakeholder engagement to ensure the regulatory rules in the states in which Duke Energy operates benefit customers and allow Duke Energy to recover its significant investments in a timely manner while maintaining affordable rates.
- Engagement with regulatory commissions to determine the regulatory treatment of the impact of the Tax Act.

Primary objectives toward the implementation of this strategy include:

Growth Initiatives. Growth in the Electric Utilities and Infrastructure business is expected to be supported by the investment of significant capital in the electric transmission and distribution grid, and in cleaner, more efficient generation. Duke Energy expects to invest approximately \$30 billion in Electric Utilities and Infrastructure growth projects over the next five years (2018-2022), continuing its efforts to generate cleaner energy. Duke Energy intends to work constructively with regulators to evaluate the current regulatory construct and seek modernized recovery solutions, such as riders, rate decoupling and multiyear rate plans, that benefit both customers and shareholders.

Investment projects at Electric Utilities and Infrastructure currently underway that will support growth initiatives include:

- Duke Energy Indiana's \$1.4 billion grid modernization plan, which is aimed at improving reliability, including fewer outages and quicker restoration.
- Significant investments in combined-cycle natural gas plants, including completing the \$1.5 billion Citrus County plant in Florida, the \$600 million W.S. Lee facility in South Carolina and the \$900 million investment in the Western Carolinas Modernization Project. These investments will allow Duke Energy to replace older, less efficient coal units.
- Duke Energy expects to continue to advance other cleaner energy sources within its regulated electric jurisdictions, including hydro, wind, solar and combined heat and power projects, increasing the flexibility of the system and allowing Duke Energy to continue lowering carbon emissions.
- In North Carolina, HB 589 provides a timely cost recovery mechanism for any solar investments we are able to make through a competitive market process.
- In Florida, as part of the comprehensive multi-year rate settlement, we committed to invest in approximately 700 MW of solar capacity over the next five years and will be authorized to recover the cost of that investment through a single issue base rate increase. We also advanced our strategic priority of energy grid investment, establishing a multiyear recovery method for \$1 billion of grid investments.

Duke Energy expects to invest around \$7 billion growing its Gas Utilities and Infrastructure business over the next five years. Growth in Gas Utilities and Infrastructure will be focused on the following:

- With the acquisition of Piedmont, Duke Energy now operates natural gas distribution businesses across five states. The continued integration of Piedmont, as well as additional investments in the natural gas Local Distribution Company (LDC) system, will help maintain system integrity and expand natural gas distribution to new customers.
- Duke Energy will continue to grow its midstream pipeline business, underpinned by investments in the Atlantic Coast Pipeline, Sabal Trail and Constitution pipeline projects. These highly contracted pipelines will bring much needed, low-cost natural gas supplies to the eastern U.S., spurring economic growth and helping Duke Energy to grow its customer base in the Southeast.

For Commercial Renewables, Duke Energy will continue to pursue long-term contracted wind and solar projects that meet its return criteria.

Cost Management. Duke Energy has a demonstrated track record of driving efficiencies and productivity into the business, leveraging its scale through competitive procurement initiatives, deploying digital transformation and continuing to identify sustainable cost savings as an essential element in response to a transforming industry.

Execute on Coal Ash Management Strategy. Duke Energy will continue the company's compliance strategy with the North Carolina Coal Ash Management Act of 2014 (Coal Ash Act) and Resource Conservation and Recovery Act. Duke Energy will update ash management plans to comply with the appropriate regulations and expand excavation and other compliance work at additional sites once plans and permits are approved.

PART II

Results of Operations

Non-GAAP Measures

Management evaluates financial performance in part based on non-GAAP financial measures, including adjusted earnings and adjusted diluted EPS. These items represent income from continuing operations attributable to Duke Energy, adjusted for the dollar and per share impact of special items. As discussed below, special items include certain charges and credits, which management believes are not indicative of Duke Energy's ongoing performance. Management believes the presentation of adjusted earnings and adjusted diluted EPS provides useful information to investors, as it provides them with an additional relevant comparison of Duke Energy's performance across periods.

Management uses these non-GAAP financial measures for planning and forecasting, and for reporting financial results to the Duke Energy Board of Directors (Board of Directors), employees, stockholders, analysts and investors. Adjusted diluted EPS is also used as a basis for employee incentive bonuses. The most directly comparable GAAP measures for adjusted earnings and adjusted diluted EPS are Net Income Attributable to Duke Energy Corporation (GAAP Reported Earnings) and Diluted EPS Attributable to Duke Energy Corporation common stockholders (GAAP Reported EPS), respectively.

Special items included in the periods presented include the following, which management believes do not reflect ongoing costs:

- Costs to Achieve Mergers represents charges that result from strategic acquisitions.

- Cost Savings Initiatives represent severance charges related to company-wide initiatives, excluding merger integration, to standardize processes and systems, leverage technology and workforce optimization.
- Regulatory Settlements in 2017 represent charges related to the Levy nuclear project in Florida and the Mayo Zero Liquid Discharge and Sutton combustion turbine projects in North Carolina. The 2015 amount represents charges related to the IGCC Settlement.
- Commercial Renewables Impairments represent other-than-temporary, asset and goodwill impairments.
- Impacts of the Tax Act represent estimated amounts recognized related to the Tax Cuts and Jobs Act.
- Ash Basin Settlement and Penalties represent charges related to Plea Agreements and settlement agreements with regulators and other governmental entities.

Adjusted earnings also include the operating results of the nonregulated Midwest generation business and Duke Energy Retail Sales (collectively, the Midwest Generation Disposal Group) and the International Disposal Group, which have been classified as discontinued operations. Management believes inclusion of the operating results of the Disposal Groups within adjusted earnings and adjusted diluted EPS results in a better reflection of Duke Energy's financial performance during the period.

Duke Energy's adjusted earnings and adjusted diluted EPS may not be comparable to similarly titled measures of another company because other companies may not calculate the measures in the same manner.

Reconciliation of GAAP Reported Amounts to Adjusted Amounts

The following table presents a reconciliation of adjusted earnings and adjusted diluted EPS to the most directly comparable GAAP measures.

(in millions, except per share amounts)	Years Ended December 31,					
	2017		2016		2015	
	Earnings	EPS	Earnings	EPS	Earnings	EPS
GAAP Reported Earnings/EPS	\$ 3,059	\$ 4.36	\$ 2,152	\$ 3.11	\$ 2,816	\$ 4.05
Adjustments to Reported:						
Costs to Achieve Mergers	64	0.09	329	0.48	60	0.09
Regulatory Settlements	98	0.14	—	—	58	0.08
Commercial Renewables Impairments	74	0.11	45	0.07	—	—
Impacts of the Tax Act ^(c)	(102)	(0.14)	—	—	—	—
Cost Savings Initiatives	—	—	57	0.08	88	0.13
Ash Basin Settlement and Penalties	—	—	—	—	11	0.02
Discontinued Operations ^{(a)(b)}	6	0.01	661	0.95	119	0.17
Adjusted Earnings/Adjusted Diluted EPS	\$ 3,199	\$ 4.57	\$ 3,244	\$ 4.69	\$ 3,152	\$ 4.54

- (a) For 2016, includes a loss on sale of the International Disposal Group. Represents the GAAP reported Loss from Discontinued Operations, less the International Disposal Group operating results, which are included in adjusted earnings.
- (b) For 2015, includes the impact of a litigation reserve related to the Midwest Generation Disposal Group. Represents (i) GAAP reported Income from Discontinued Operations, less the International Disposal Group operating results and Midwest Generation Disposal Group operating results, which are included in adjusted earnings, and (ii) a state tax charge resulting from the completion of the sale of the Midwest Generation Disposal Group but not reported as discontinued operations.
- (c) The Tax Act reduced the corporate income tax rate from 35 percent to 21 percent, effective January 1, 2018. As the tax change was enacted in 2017, Duke Energy is required to remeasure its existing deferred tax assets and liabilities at the lower rate. For Duke Energy's regulated operations, where the reduction in the net accumulated deferred income tax liability is expected to be returned to customers in future rates, the remeasurement has been deferred as a regulatory liability.

PART II

Year Ended December 31, 2017, as compared to 2016

Duke Energy's full-year 2017 GAAP Reported EPS was \$4.36 compared to \$3.11 for full-year 2016. In addition to the adjusted diluted EPS drivers discussed below, GAAP Reported EPS in 2017 was higher primarily due to a \$0.14 benefit per share related to the Tax Act in 2017, lower costs to achieve the Piedmont merger and a loss on sale and impairments associated with the sale of the International Disposal Group in 2016, partially offset by charges of \$0.14 related to regulatory settlements in Electric Utilities and Infrastructure.

As discussed, management also evaluates financial performance based on adjusted earnings. Duke Energy's full-year 2017 adjusted diluted EPS was \$4.57 compared to \$4.69 for full-year 2016. The decrease in adjusted diluted EPS was primarily due to:

- Lower regulated electric revenues of \$0.26 per share due to less favorable weather in the current year, including lost revenues related to Hurricane Irma;
- The prior year operating results from the International Disposal Group, which was sold in December 2016. The 2016 operating results included a benefit from the valuation of deferred income taxes. See Note 22 to the Consolidated Financial Statements, "Income Taxes," for additional information;
- Higher financing costs, primarily due to the Piedmont acquisition; and
- Higher depreciation and amortization expense at Electric Utilities and Infrastructure primarily due to higher depreciable base.

Partially offset by:

- Higher regulated electric revenues from increased pricing and riders driven by new rates in Duke Energy Progress South Carolina, base rate adjustments in Florida and energy efficiency rider revenues in North Carolina, as well as growth in weather-normal retail volumes;
- Lower operations, maintenance and other expenses, net of amounts recoverable in rates, at Electric Utilities and Infrastructure resulting from ongoing cost efficiency efforts and lower year-to-date storm costs than the prior year; and
- Additional earnings from incremental investments in Atlantic Coast Pipeline, LLC (ACP) and Sabal Trail natural gas pipelines.

Year Ended December 31, 2016, as compared to 2015

Duke Energy's full-year 2016 GAAP Reported EPS was \$3.11 compared to \$4.05 for full-year 2015. GAAP Reported EPS was lower primarily due to a \$0.93 loss on sale of the International business, which has been presented as discontinued operations. Duke Energy also recorded \$0.40 of after-tax costs to achieve the Piedmont merger in 2016, including losses on interest rate swaps related to the acquisition financing. See Note 2, "Acquisitions and Dispositions," for additional information on the Piedmont and International transactions.

As discussed, management also evaluates financial performance based on adjusted earnings. Duke Energy's full-year 2016 adjusted diluted EPS was \$4.69 compared to \$4.54 for full-year 2015. The variance in adjusted diluted EPS was primarily due to:

- More favorable weather in 2016 compared to 2015;
- Increased retail revenues from pricing and riders, including energy efficiency programs;
- Strong operations and maintenance cost control at Electric Utilities and Infrastructure; and
- Piedmont's earnings contribution subsequent to the acquisition in October 2016.

Partially offset by:

- Higher storm costs at Electric Utilities and Infrastructure due to significant 2016 storms;
- Higher interest expense related to additional debt outstanding; and
- Higher depreciation and amortization expense at Electric Utilities and Infrastructure primarily due to higher depreciable base.

SEGMENT RESULTS

The remaining information presented in this discussion of results of operations is on a GAAP basis. Management evaluates segment performance based on segment income. Segment income is defined as income from continuing operations net of income attributable to noncontrolling interests. Segment income includes intercompany revenues and expenses that are eliminated in the Consolidated Financial Statements.

Duke Energy's segment structure includes the following segments: Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables. The remainder of Duke Energy's operations is presented as Other. See Note 3 to the Consolidated Financial Statements, "Business Segments," for additional information on Duke Energy's segment structure.

Tax Cuts and Jobs Act (the Tax Act)

On December 22, 2017, President Trump signed the Tax Act into law. Among other provisions, the Tax Act lowers the corporate federal income tax rate from 35 percent to 21 percent, limits interest deductions outside of regulated utility operations, and eliminates bonus depreciation for regulated utilities, effective January 1, 2018. The Tax Act also could be amended or subject to technical correction, which could change the financial impacts that were recorded at December 31, 2017, or are expected to be recorded in future periods. See Note 22 to the Consolidated Financial Statements, "Income Taxes," for additional information on the Tax Act. The FERC and state utility commissions will determine the regulatory treatment of the impacts of the Tax Act for the Subsidiary Registrants. Duke Energy's segments' future results of operations, financial condition and cash flows could be adversely impacted by the Tax Act, subsequent amendments or corrections, or the actions of the FERC, state utility commissions or credit rating agencies related to the Tax Act. Duke Energy is reviewing orders to address the rate treatment of the Tax Act by each state utility commission in which the Subsidiary Registrants operate. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information. Beginning in January 2018, the Subsidiary Registrants will defer the estimated ongoing impacts of the Tax Act that are expected to be returned to customers. See the Credit Ratings section below for additional information on the impact of the Tax Act on the Duke Energy Registrants' credit ratings.

As a result of the Tax Act, Duke Energy revalued its existing deferred tax assets and deferred tax liabilities as of December 31, 2017, to account for the estimated future impact of lower corporate tax rates on these deferred tax amounts. For Duke Energy's regulated operations, where the net reduction in the net accumulated deferred income tax liability is expected to be returned to customers in future rates, the remeasurement has been deferred as a regulatory liability. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information on the Tax Act's impact to the regulatory asset and liability accounts.

PART II

The following table shows the expense (benefit) recorded on Duke Energy's Consolidated Statement of Operations for the year ended December 31, 2017.

(in millions)	Impacts of the Tax Act ^{(a)(b)}
Electric Utilities and Infrastructure ^(c)	\$ (231)
Gas Utilities and Infrastructure ^{(d)(e)}	(26)
Commercial Renewables	(442)
Other ^(f)	597
Total impact of the Tax Act ^(d)	\$ (102)

(a) Except where noted below, amounts are included within Income Tax Expense From Continuing Operations on the Consolidated Statement of Operations.

(b) See Note 4 and Note 22 to the Consolidated Financial Statements, "Regulatory Matters" and "Income Taxes," for information about the Tax Act's impact on Duke Energy's Consolidated Balance Sheets.

(c) Amount primarily relates to the remeasurement of net deferred tax liabilities that are excluded for ratemaking purposes related to abandoned or impaired assets and certain wholesale fixed rate contracts.

(d) Includes a \$16 million expense recorded within Equity in earnings (losses) of unconsolidated affiliates on the Consolidated Statement of Operations.

(e) Amount primarily relates to the remeasurement of net deferred tax liabilities that relates to equity method investments and certain wholesale fixed rate contracts.

(f) Amount primarily relates to the remeasurement of Foreign Tax Credits, federal net operating losses and non-regulated deferred tax assets.

Electric Utilities and Infrastructure

(in millions)	Years Ended December 31,				
	2017	2016	Variance 2017 vs. 2016	2015	Variance 2016 vs. 2015
Operating Revenues	\$ 21,331	\$ 21,366	\$ (35)	\$ 21,521	\$ (155)
Operating Expenses					
Fuel used in electric generation and purchased power	6,379	6,595	(216)	7,308	(713)
Operations, maintenance and other	5,196	5,292	(96)	5,138	154
Depreciation and amortization	3,010	2,897	113	2,735	162
Property and other taxes	1,079	1,021	58	1,013	8
Impairment charges	176	16	160	101	(85)
Total operating expenses	15,840	15,821	19	16,295	(474)
Gains on Sales of Other Assets and Other, net	6	—	6	5	(5)
Operating Income	5,497	5,545	(48)	5,231	314
Other Income and Expenses	308	303	5	264	39
Interest Expense	1,240	1,136	104	1,074	62
Income Before Income Taxes	4,565	4,712	(147)	4,421	291
Income Tax Expense	1,355	1,672	(317)	1,602	70
Segment Income	\$ 3,210	\$ 3,040	\$ 170	\$ 2,819	\$ 221
Duke Energy Carolinas Gigawatt-Hours (GWh) sales	87,305	88,545	(1,240)	86,950	1,595
Duke Energy Progress GWh sales	66,822	69,049	(2,227)	64,881	4,168
Duke Energy Florida GWh sales	40,591	40,404	187	40,053	351
Duke Energy Ohio GWh sales	24,639	25,163	(524)	25,439	(276)
Duke Energy Indiana GWh sales	33,145	34,368	(1,223)	33,518	850
Total Electric Utilities and Infrastructure GWh sales	252,502	257,529	(5,027)	250,841	6,688
Net proportional MW capacity in operation	48,828	49,295	(467)	50,170	(875)

Year Ended December 31, 2017, as Compared to 2016

Electric Utilities and Infrastructure's results were impacted by the Tax Act, growth from investments, lower operations and maintenance expense and higher weather-normal retail sales volumes, partially offset by less favorable weather, impairment charges due to regulatory settlements, increased depreciation and amortization, higher interest expense and higher property and other taxes. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The variance was driven primarily by:

- a \$292 million decrease in retail sales, net of fuel revenue, due to less favorable weather in the current year; and
- a \$235 million decrease in fuel revenues driven by lower retail sales volumes, lower fuel prices included in rates and changes in the generation mix.

Partially offset by:

- a \$364 million increase in rider revenues including increased revenues related to energy efficiency programs, Duke Energy Florida's nuclear asset securitization, Midwest transmission and distribution capital investments and Duke Energy Indiana's Edwardsport Integrated Gasification Combined Cycle (IGCC) plant, as well as an increase in retail pricing due to base rate adjustments for Duke Energy Florida's Osprey acquisition and Hines Chillers and the Duke Energy Progress South Carolina rate case;
- an \$86 million increase in weather-normal sales volumes to customers; and
- a \$26 million increase in other revenues primarily due to favorable transmission revenues.

PART II

Operating Expenses. The variance was driven primarily by:

- a \$160 million increase in impairment charges primarily due to the write-off of remaining unrecovered Levy Nuclear Project costs in the current year at Duke Energy Florida and the disallowance from rate base of certain projects at the Mayo and Sutton plants in the current year at Duke Energy Progress related to the partial settlement in the North Carolina rate case;
- a \$113 million increase in depreciation and amortization expense primarily due to additional plant in service; and
- a \$58 million increase in property and other taxes primarily due to higher property taxes.

Partially offset by:

- a \$216 million decrease in fuel expense (including purchased power) primarily due to lower retail sales and changes in the generation mix; and
- a \$96 million decrease in operation, maintenance and other expense primarily due to lower plant outage, storm restoration and labor and benefits costs partially offset by higher operational costs that are recoverable in rates.

Interest Expense. The variance was due to higher debt outstanding in the current year and Duke Energy Florida's Crystal River 3 (CR3) regulatory asset debt return ending in June 2016 upon securitization.

Income Tax Expense. The variance was primarily due to a decrease in pretax income and the impact of the Tax Act. The effective tax rates for the years ended December 31, 2017, and 2016 were 29.7 percent and 35.5 percent, respectively. The decrease in the effective tax rate was primarily due to the impact of the Tax Act. See the Tax Cuts and Jobs Act section above for additional information on the Tax Act.

Year Ended December 31, 2016, as Compared to 2015

Electric Utilities and Infrastructure's higher earnings were primarily due to increased pricing and rider revenues, favorable weather, a prior year impairment charge associated with the 2015 Edwardsport IGCC settlement and an increase in wholesale power margins. These impacts were partially offset by increased depreciation and amortization expense, higher interest expense and higher operations and maintenance expense. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The variance was driven primarily by:

- a \$768 million decrease in fuel revenues driven by lower fuel prices included in rates.

Partially offset by:

- a \$414 million increase in rider revenues including increased revenues related to energy efficiency programs, the additional ownership interest in generating assets acquired from NCEMPA in the third quarter of 2015 and increased revenues related to Duke Energy Indiana's clean coal equipment, and increased retail electric pricing primarily due to the expiration of the North Carolina cost of removal decrement rider;

- a \$101 million increase in retail sales, net of fuel revenue, due to favorable weather compared to the prior year; and
- a \$76 million increase in wholesale power revenues primarily due to additional volumes and capacity charges for customers served under long-term contracts, including the NCEMPA wholesale contract.

Operating Expenses. The variance was driven primarily by:

- a \$713 million decrease in fuel expense (including purchased power and natural gas purchases for resale) primarily due to lower natural gas and coal prices, and lower volumes of coal and oil, partially offset by higher volumes of natural gas; and
- an \$85 million decrease in pretax impairment charges in the prior year primarily due to the 2015 Edwardsport IGCC settlement.

Partially offset by:

- a \$162 million increase in depreciation and amortization expense primarily due to additional plant in service, including the additional ownership interest in generating assets acquired from NCEMPA, as well as the expiration of the North Carolina cost of removal decrement rider; and
- a \$154 million increase in operations and maintenance expense primarily due to higher environmental and operational costs that are recoverable in rates, increased employee benefit costs, and higher storm restoration costs, partially offset by lower costs due to effective cost control efforts.

Other Income and Expenses. The variance was primarily driven by higher AFUDC equity.

Interest Expense. The variance was due to higher debt outstanding in the current year.

Income Tax Expense. The variance was primarily due to an increase in pretax income. The effective tax rates for the years ended December 31, 2016, and 2015 were 35.5 percent and 36.2 percent, respectively.

Matters Impacting Future Electric Utilities and Infrastructure Results

An order from regulatory authorities disallowing recovery of costs related to closure of ash impoundments could have an adverse impact on Electric Utilities and Infrastructure's financial position, results of operations and cash flows. See Note 4 and Note 9 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively, for additional information.

On May 18, 2016, the North Carolina Department of Environmental Quality (NCDEQ) issued proposed risk classifications for all coal ash surface impoundments in North Carolina. All ash impoundments not previously designated as high priority by the North Carolina Coal Ash Management Act of 2014 (Coal Ash Act) were designated as intermediate risk. Certain impoundments classified as intermediate risk, however, may be reassessed in the future as low risk pursuant to legislation enacted on July 14, 2016. Electric Utilities and Infrastructure's estimated asset retirement obligations (AROs) related to the closure of North Carolina ash impoundments are based upon the mandated closure method or a probability weighting of potential closure

PART II

methods for the impoundments that may be reassessed to low risk. As the final risk ranking classifications in North Carolina are delineated, final closure plans and corrective action measures are developed and approved for each site, the closure work progresses and the closure method scope and remedial methods are determined, the complexity of work and the amount of coal combustion material could be different than originally estimated and, therefore, could materially impact Electric Utilities and Infrastructure's financial position. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information.

Duke Energy is a party to multiple lawsuits and could be subject to fines and other penalties related to operations at certain North Carolina facilities with ash basins. The outcome of these lawsuits and potential fines and penalties could have an adverse impact on Electric Utilities and Infrastructure's financial position, results of operations and cash flows. See Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies," for additional information.

In the fourth quarter of 2016, Hurricane Matthew caused historic flooding, extensive damage and widespread power outages within the Duke Energy Progress service territory. Duke Energy Progress filed a petition with the North Carolina Utilities Commission (NCUC) requesting an accounting order to defer incremental operation and maintenance and capital costs incurred in response to Hurricane Matthew and other significant 2016 storms. The NCUC will address this request in Duke Energy Progress' currently pending rate case. A final order from the NCUC that disallows the deferral and future recovery of all or a significant portion of the incremental storm restoration costs incurred could result in an adverse impact on Electric Utilities and Infrastructure's financial position, results of operations and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Duke Energy has several rate cases pending. Duke Energy Kentucky filed an electric rate case with the Kentucky Public Service Commission (KPSC)

on September 1, 2017, to recover costs of capital investments in generation, transmission and distribution systems and to recover other incremental expenses since its previous rate case. Duke Energy Carolinas and Duke Energy Progress filed general rate cases with the NCUC on August 25, 2017, and June 1, 2017, respectively, to recover costs of complying with Coal Combustion Residuals (CCR) regulations and the Coal Ash Act, as well as costs of capital investments in generation, transmission and distribution systems and any increase in expenditures subsequent to previous rate cases. In March 2017, Duke Energy Ohio filed an electric distribution base rate case application and supporting testimony with the Public Utility Commission of Ohio (PUCO). Electric Utilities and Infrastructure's earnings could be impacted adversely if these rate increases are delayed or denied by the KPSC, NCUC or PUCO. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On August 29, 2017, Duke Energy Florida filed a 2017 Second Revised and Restated Settlement Agreement (2017 Settlement) with the FPSC. On November 20, 2017, the FPSC issued an order to approve the 2017 Settlement. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information about the 2017 Settlement. In accordance with the 2017 Settlement, Duke Energy Florida will not seek recovery of any costs associated with the ongoing Westinghouse contract litigation, which is currently being appealed. See Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies," for additional information about the litigation. An unfavorable appeals ruling on that matter could have an adverse impact on Electric Utilities and Infrastructure's financial position, results of operations and cash flows.

Within this Item 7, see the Tax Cuts and Jobs Act above as well as Liquidity and Capital Resources below for risks associated with the Tax Act.

Gas Utilities and Infrastructure

(in millions)	Years Ended December 31,				
	2017	2016	Variance 2017 vs. 2016	2015	Variance 2016 vs. 2015
Operating Revenues	\$ 1,836	\$ 901	\$ 935	\$ 541	\$ 360
Operating Expenses					
Cost of natural gas	632	265	367	141	124
Operation, maintenance and other	393	186	207	126	60
Depreciation and amortization	231	115	116	79	36
Property and other taxes	106	70	36	62	8
Total operating expenses	1,362	636	726	408	228
(Loss) Gains on Sales of Other Assets and Other, net	—	(1)	1	6	(7)
Operating Income	474	264	210	139	125
Other Income and Expenses	66	24	42	3	21
Interest Expense	105	46	59	25	21
Income Before Income Taxes	435	242	193	117	125
Income Tax Expense	116	90	26	44	46
Segment Income	\$ 319	\$ 152	\$ 167	\$ 73	\$ 79
Piedmont LDC throughput (dekatherms) ^(a)	468,259,777	120,908,508	347,351,269	—	120,908,508
Duke Energy Midwest LDC throughput (MCF)	80,934,836	81,870,489	(935,653)	84,523,814	(2,653,325)

(a) Includes throughput subsequent to Duke Energy's acquisition of Piedmont on October 3, 2016.

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PART II

Year Ended December 31, 2017, as Compared to 2016

Gas Utilities and Infrastructure's higher results were primarily due to the inclusion of Piedmont's earnings in the current year as a result of Duke Energy's acquisition of Piedmont on October 3, 2016, as well as additional equity earnings from investments in the ACP and Sabal Trail pipelines.

Operating Revenues. The variance was driven primarily by:

- an \$884 million increase in operating revenues due to the inclusion of Piedmont's operating revenues beginning in October 2016; and
- a \$47 million increase in Piedmont's fourth quarter results due to colder weather, higher natural gas prices, Integrity Management Rider (IMR) rate adjustments, customer growth and new power generation customers.

Operating Expenses. The variance was driven primarily by:

- a \$686 million increase in operating expenses due to the inclusion of Piedmont's operating expenses beginning in October 2016; and
- a \$34 million increase in Piedmont's fourth quarter results primarily due to higher natural gas costs passed through to customers due to the higher price per dekatherm of natural gas.

Other Income and Expenses. The increase was driven primarily by higher equity earnings from pipeline investments.

Interest Expense. The variance was primarily due to the inclusion of Piedmont's interest expense beginning in October 2016.

Income Tax Expense. The variance was primarily due to an increase in pretax income due to the inclusion of Piedmont's earnings beginning in October 2016, partially offset by prior period true-ups. The effective tax rates for the years ended December 31, 2017, and 2016 were 26.7 percent and 37.2 percent, respectively. The decrease in the effective tax rate was primarily due to the prior period true-ups and the impact of the Tax Act. See the Tax Cuts and Jobs Act section above for additional information on the Tax Act.

Year Ended December 31, 2016, as Compared to 2015

Gas Utilities and Infrastructure's higher results were primarily due to the inclusion of Piedmont's earnings subsequent to the merger on October 3, 2016, and higher equity earnings from pipeline investments. Piedmont's earnings included in Gas Utilities and Infrastructure's results were \$67 million for the year ended December 31, 2016.

Operating Revenues. The variance was driven primarily by:

- a \$398 million increase in operating revenues due to the inclusion of Piedmont's operating revenues beginning in October 2016,

Partially offset by:

- a \$38 million decrease in fuel revenues driven by lower natural gas prices and decreased sales volumes for Midwest operations.

Operating Expenses. The variance was driven primarily by:

- a \$276 million increase in operating expenses due to the inclusion of Piedmont's operating expenses beginning in October 2016.

Partially offset by:

- a \$38 million decrease in the cost of natural gas, primarily due to decreased volumes and lower natural gas prices for Midwest operations.

Other Income and Expenses. The increase was driven primarily by higher equity earnings from pipeline investments.

Interest Expense. The variance was primarily due to the inclusion of Piedmont's interest expenses beginning in October 2016.

Income Tax Expense. The variance was primarily due to an increase in pretax income. The effective tax rates for the years ended December 31, 2016, and 2015 were 37.2 percent and 37.6 percent, respectively.

Matters Impacting Future Gas Utilities and Infrastructure Results

Gas Utilities and Infrastructure has a 24 percent ownership interest in Constitution Pipeline Company, LLC (Constitution), a natural gas pipeline project slated to transport natural gas supplies to major northeastern markets. On April 22, 2016, the New York State Department of Environmental Conservation denied Constitution's application for a necessary water quality certification for the New York portion of the Constitution pipeline. Constitution has stopped construction and discontinued capitalization of future development costs until the project's uncertainty is resolved. As a result of the permitting delays and project uncertainty, total anticipated contributions by Duke Energy can no longer be reasonably estimated. To the extent the legal and regulatory proceedings have unfavorable outcomes, or if Constitution concludes that the project is not viable or does not go forward, an impairment charge of up to the recorded investment in the project, net of salvage value and any cash and working capital returned, may be recorded. Due to the FERC's January 2018 ruling and the resulting increase in uncertainty, Duke Energy is evaluating the potential to recognize a pretax impairment charge on its investment in Constitution during the first quarter of 2018 of up to the current carrying amount of the investment, net of salvage value and any cash and working capital returned. With the project on hold, funding of project costs has ceased until resolution of legal actions. At December 31, 2017, Duke Energy's investment in Constitution was \$81 million. See Note 4 and Note 12 to the Consolidated Financial Statements, "Regulatory Matters," and "Investments in Unconsolidated Affiliates," respectively, for additional information.

Gas Utilities and Infrastructure has a 47 percent ownership interest in ACP, which is building an approximately 600-mile interstate natural gas pipeline intended to transport diverse natural gas supplies into southeastern markets. Affected states (West Virginia, Virginia and North Carolina) have issued certain necessary permits; the project remains subject to other pending federal and state approvals, which will allow full construction activities to begin. In early 2018, the FERC issued series of Partial Notices to Proceed which authorized the project to begin limited construction-related activities along the pipeline route. The project has a targeted in-service date of late 2019. Due to delays in obtaining the required permits to commence construction and the conditions imposed upon the project by the permits, ACP's project manager estimates the project pipeline development costs have increased from a range of \$5.0 billion to \$5.5 billion to a range of \$6.0 billion to \$6.5 billion, excluding financing costs. Project construction activities, schedule and final costs are still subject to uncertainty due to potential additional permitting delays, construction productivity and other conditions and risks that could result in potential higher project costs and a potential delay in the targeted in-service date. See Note 4

PART II

to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Rapidly rising interest rates without timely or adequate updates to the regulated allowed return on equity or failure to achieve the anticipated benefits of the Piedmont merger, including cost savings and growth targets, could significantly impact the estimated fair value of reporting units in Gas Utilities

and Infrastructure. In the event of a significant decline in the estimated fair value of the reporting units, goodwill impairment charges could be recorded. The carrying value of goodwill within Gas Utilities and Infrastructure was approximately \$1,924 million at December 31, 2017.

Within this Item 7, see the Tax Cuts and Jobs Act above as well as Liquidity and Capital Resources below for risks associated with the Tax Act.

Commercial Renewables

(in millions)	Years Ended December 31,				
	2017	2016	Variance 2017 vs. 2016	2015	Variance 2016 vs. 2015
Operating Revenues	\$ 460	\$ 484	\$ (24)	\$ 286	\$ 198
Operating Expenses					
Operation, maintenance and other	267	337	(70)	197	140
Depreciation and amortization	155	130	25	104	26
Property and other taxes	33	25	8	18	7
Impairment charges	99	—	99	3	(3)
Total operating expenses	554	492	62	322	170
Gains on Sales of Other Assets and Other, net	1	5	(4)	1	4
Operating Loss	(93)	(3)	(90)	(35)	32
Other Income and Expenses	(12)	(83)	71	2	(85)
Interest Expense	87	53	34	44	9
Loss Before Income Taxes	(192)	(139)	(53)	(77)	(62)
Income Tax Benefit	(628)	(160)	(468)	(128)	(32)
Less: Loss Attributable to Noncontrolling Interests	(5)	(2)	(3)	(1)	(1)
Segment Income	\$ 441	\$ 23	\$ 418	\$ 52	\$ (29)
Renewable plant production, GWh	8,260	7,446	814	5,577	1,869
Net proportional MW capacity in operation	2,907	2,892	15	1,943	949

Year Ended December 31, 2017, as Compared to 2016

Commercial Renewables' higher earnings were primarily due to the Tax Act, partially offset by pretax impairment charges. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The decrease was primarily due to lower engineering, procurement and construction revenues from REC Solar, a California-based provider of solar installations acquired by Duke Energy in 2015.

Operating Expenses. The increase was primarily due to \$99 million in pretax impairment charges in the current year related to a wholly owned non-contracted wind project and other investments and higher expenses associated with new wind and solar projects, partially offset by lower operations and maintenance expense at REC Solar due to fewer projects under construction. See Notes 10 and 11 to the Consolidated Financial Statements, "Property, Plant and Equipment" and "Goodwill and Intangible Assets," respectively, for additional information.

Other Income and Expenses. The variance was primarily due to a \$71 million pretax impairment charge in the prior year related to certain equity method investments. For additional information, see Note 12 to the Consolidated Financial Statements, "Investments in Unconsolidated Affiliates."

Interest Expense. The variance was primarily due to new project financings and less capitalized interest due to fewer projects under construction.

Income Tax Benefit. The variance was primarily due to the impact of the Tax Act and higher production tax credits (PTCs), partially offset by lower investment tax credits (ITCs). See the Tax Cuts and Jobs Act section above for additional information on the Tax Act and the impact on the effective tax rate.

Year Ended December 31, 2016, as Compared to 2015

Commercial Renewables' lower earnings were primarily due to an impairment charge related to certain equity method investments in wind projects, partially offset by new wind and solar generation placed in service and improved wind production. The following is a detailed discussion of variance drivers by line item.

Operating Revenues. The variance was primarily due to a \$135 million increase due to growth of REC Solar and a \$66 million increase from new wind and solar generation placed in service and improved wind production.

Operating Expenses. The variance was primarily due to a \$130 million increase in operating expenses due to growth of REC Solar and a \$36 million increase in operating expenses due to new wind and solar generation placed in service.

Other Income and Expenses. The variance was due to a \$71 million pretax impairment charge related to certain equity method investments in wind projects. See Note 12 to the Consolidated Financial Statements, "Investments in Unconsolidated Affiliates," for additional information.

PART II

Income Tax Benefit. The variance was primarily due to a decrease in pretax income and the impact of PTCs for the renewables portfolio.

Matters Impacting Future Commercial Renewables Results

Changes or variability in assumptions used in calculating the fair value of the Commercial Renewables reporting units for goodwill testing purposes, including but not limited to legislative actions related to tax credit extensions, long-term growth rates and discount rates could significantly impact the estimated fair value of the Commercial Renewables reporting units. In the

event of a significant decline in the estimated fair value of the Commercial Renewables reporting units, goodwill or other asset impairment charges could be recorded. The carrying value of goodwill within Commercial Renewables was approximately \$93 million at December 31, 2017.

Persistently low market pricing for wind resources, primarily in the Electric Reliability Council of Texas West market and the future expiration of tax incentives including ITCs and PTCs could result in adverse impacts to the future results of Commercial Renewables.

Within this Item 7, see the Tax Cuts and Jobs Act above as well as Liquidity and Capital Resources below for risks associated with the Tax Act.

Other

(in millions)	Years Ended December 31,				
	2017	2016	Variance 2017 vs. 2016	2015	Variance 2016 vs. 2015
Operating Revenues	\$ 138	\$ 117	\$ 21	\$ 135	\$ (18)
Operating Expenses					
Fuel used in electric generation and purchased power	58	51	7	48	3
Operation, maintenance and other	44	371	(327)	188	183
Depreciation and amortization	131	152	(21)	135	17
Property and other taxes	14	28	(14)	35	(7)
Impairment charges	7	2	5	3	(1)
Total operating expenses	254	604	(350)	409	195
Gains on Sales of Other Assets and Other, net	21	23	(2)	18	5
Operating Loss	(95)	(464)	369	(256)	(208)
Other Income and Expenses	127	75	52	98	(23)
Interest Expense	574	693	(119)	393	300
Loss Before Income Taxes	(542)	(1,082)	540	(551)	(531)
Income Tax Expense (Benefit)	353	(446)	799	(262)	(184)
Less: Income attributable to Noncontrolling Interests	10	9	1	10	(1)
Net Expense	\$ (905)	\$ (645)	\$ (260)	\$ (299)	\$ (346)

Year Ended December 31, 2017, as Compared to 2016

Other's higher net expense was driven by the Tax Act, partially offset by prior year losses on forward-starting interest rate swaps and other costs related to the Piedmont acquisition, decreased severance expenses, prior year donations to the Duke Energy Foundation and insurance proceeds resulting from settlement of the shareholder litigation related to the Progress Energy merger. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The increase was primarily due to higher OVEC (Ohio Valley Electric Corporation) revenues and prior year customer credits related to Piedmont merger commitments. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information.

Operating Expenses. The decrease was primarily due to lower transaction and integration costs associated with the Piedmont acquisition, prior year severance expenses related to cost savings initiatives, donations to the Duke Energy Foundation in 2016 as well as prior year depreciation expense and other integration costs related to the Progress Energy merger. The Duke Energy Foundation is a nonprofit organization funded by Duke Energy shareholders that makes charitable contributions to selected nonprofits and government subdivisions.

Other Income and Expenses. The increase was primarily driven by insurance proceeds resulting from settlement of the shareholder litigation related to the Progress Energy merger, higher earnings from the equity method investment in NMC and increased returns on investments that fund certain employee benefit obligations.

Interest Expense. The decrease was primarily due to prior year losses on forward-starting interest rate swaps related to Piedmont pre-acquisition financing, partially offset by higher interest costs on \$3.75 billion of debt issued in August 2016 to fund the acquisition. For additional information see Notes 2, 6 and 14 to the Consolidated Financial Statements, "Acquisitions and Dispositions," "Debt and Credit Facilities" and "Derivatives and Hedging," respectively.

Income Tax Benefit. The variance was primarily due to the impact of the Tax Act and a decrease in pretax loss. See the Tax Cuts and Jobs Act section above for additional information on the Tax Act and the impact on the effective tax rate.

Year Ended December 31, 2016, as Compared to 2015

Other's higher net expense was driven by costs related to the Piedmont acquisition, higher charitable donations and higher interest expense related to the Piedmont acquisition financing. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The decrease was primarily due to customer credits recorded related to Piedmont merger commitments. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information.

PART II

Operating Expenses. The increase was primarily due to transaction and integration costs associated with the Piedmont acquisition and increased donations to the Duke Energy Foundation, partially offset by a decrease in severance accruals.

Other Income and Expenses. The variance was primarily due to lower earnings from NMC, partially offset by higher returns on investments that support employee benefit obligations.

Interest Expense. The increase was primarily due to Piedmont acquisition financing, including bridge facility costs and losses on forward-starting interest rate swaps. For additional information see Notes 2 and 14 to the Consolidated Financial Statements, "Acquisitions and Dispositions" and "Derivatives and Hedging," respectively.

Income Tax Benefit. The variance was primarily due to an increase in pretax losses, partially offset by a decrease in the effective tax rate. The effective tax rates for the years ended December 31, 2016, and 2015 were 41.2 percent and 47.5 percent, respectively. The decrease in the effective tax rate was primarily due to the benefit from legal entity restructuring recorded in 2015.

Matters Impacting Future Other Results

Included in Other is Duke Energy Ohio's 9 percent ownership interest in the Ohio Valley Electric Corporation (OVEC), which owns 2,256 MW of coal-fired generation capacity. As a counterparty to an inter-company power agreement (ICPA), Duke Energy Ohio has a contractual arrangement to receive entitlements to capacity and energy from OVEC's power plants through June 2040 commensurate with its power participation ratio, which is equivalent to Duke Energy Ohio's ownership interest. Costs, including fuel, operating expenses, fixed costs, debt amortization and interest expense, are allocated to counterparties to the ICPA, including Duke Energy Ohio, based on their power participation ratio. The value of the ICPA is subject to variability due to fluctuations in power prices and changes in OVEC's costs of business. Deterioration in the credit quality or bankruptcy of one or more parties to the ICPA could increase the costs of OVEC. In addition, certain proposed environmental rulemaking costs could result in future increased cost allocations. For information on Duke Energy's regulatory filings related to OVEC, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

The retired Beckjord generating station (Beckjord), a nonregulated facility retired during 2014, is not subject to the U.S. Environmental Protection Agency (EPA) rule related to the disposal of CCR from electric utilities. However, if costs are incurred as a result of environmental regulations or to mitigate risk associated with on-site storage of coal ash, the costs could have an adverse impact on Other's financial position, results of operations and cash flows.

Within this Item 7, see the Tax Cuts and Jobs Act above as well as Liquidity and Capital Resources below for risks associated with the Tax Act.

(LOSS) INCOME FROM DISCONTINUED OPERATIONS, NET OF TAX

(in millions)	Years Ended December 31,				
	2017	2016	Variance 2017 vs. 2016	2015	Variance 2016 vs. 2015
(Loss) Income From Discontinued Operations, net of tax	\$ (6)	\$ (408)	\$ 402	\$ 177	\$ (585)

Year Ended December 31, 2017, as Compared to 2016

The variance was primarily driven by the prior year loss on the disposal of Duke Energy's Latin American generation business and an impairment charge related to certain assets in Central America, partially offset by a tax benefit related to historic unremitted foreign earnings and immaterial out of period tax adjustments unrelated to the Disposal Groups. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information.

Year Ended December 31, 2016, as Compared to 2015

The variance was primarily driven by the 2016 loss on the disposal of Duke Energy's Latin American generation business and an impairment charge related to certain assets in Central America, partially offset by a tax benefit related to historic unremitted foreign earnings and immaterial out of period tax adjustments unrelated to the Disposal Groups. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information.

SUBSIDIARY REGISTRANTS

As a result of the Tax Act, the Subsidiary Registrants revalued their deferred tax assets and deferred tax liabilities, as of December 31, 2017, to account for the future impact of lower corporate tax rates on these deferred tax amounts. For the Subsidiary Registrants regulated operations, where the reduction is expected to be returned to customers in future rates, the remeasurement has been deferred as a regulatory liability. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters" for additional information on the Tax Act's impact to the regulatory asset and liability

accounts. The FERC and state utility commissions will determine the regulatory treatment of the impacts of the Tax Act for the Subsidiary Registrants. The Subsidiary Registrants' future results of operations, financial condition and cash flows could be adversely impacted by the Tax Act, subsequent amendments or corrections, or the actions of the FERC, state utility commissions or credit rating agencies related to the Tax Act. The change in each Subsidiary Registrant's effective tax rate for the year ended December 31, 2017, was primarily due to the impact of the Tax Act, unless noted below.

PART II

The following table shows the expense (benefit) recorded on the Subsidiary Registrant's Consolidated Statement of Operations and Comprehensive Income for the year ended December 31, 2017, and the effective tax rate for each Subsidiary Registrant.

(in millions)	Impacts of the Tax Act ^{(a)(b)}	Effective Tax Rate Years Ended December 31,	
		2017	2016
Duke Energy Carolinas	\$ 15	34.9%	35.2%
Progress Energy	(246) ^(c)	17.2%	33.7%
Duke Energy Progress	(40) ^(d)	29.0% ^(h)	33.4%
Duke Energy Florida	(226) ^(e)	6.1%	36.9%
Duke Energy Ohio	(23) ^(e)	23.4%	28.9%
Duke Energy Indiana	55 ^(f)	46.0%	37.1%
Piedmont	(2) ^{(d)(g)}	30.8%	38.3%

- (a) Except where noted below, amounts are included within Income Tax Expense From Continuing Operations or Income Tax Expense on the Consolidated Statement of Operations and Comprehensive Income.
(b) See Notes 4 and 22 to the Consolidated Financial Statements, "Regulatory Matters" and "Income Taxes," for information about the Tax Act's impact on Duke Energy's Consolidated Balance Sheets.
(c) Amount primarily relates to the remeasurement of deferred tax liabilities that are excluded for ratemaking purposes related to abandoned assets and certain wholesale fixed rate contracts.
(d) Amount primarily relates to the remeasurement of deferred tax liabilities of certain wholesale fixed rate contracts.
(e) Amount primarily relates to the remeasurement of deferred tax assets that are excluded for ratemaking purposes related to a prior transfer of certain electric generating assets.
(f) Amount primarily relates to the remeasurement of deferred tax liabilities that are excluded for ratemaking purposes related to impaired assets.
(g) Includes a \$16 million expense recorded within Equity in earnings (losses) of unconsolidated affiliates on the Consolidated Statement of Operations and Comprehensive Income.
(h) The decrease in the effective tax rate was primarily due to the impact of the Tax Act and lower North Carolina corporate tax rates.

DUKE ENERGY CAROLINAS

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2017, 2016 and 2015.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Carolinas is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2017	2016	Variance
Operating Revenues	\$ 7,302	\$ 7,322	\$ (20)
Operating Expenses			
Fuel used in electric generation and purchased power	1,822	1,797	25
Operation, maintenance and other	1,961	2,106	(145)
Depreciation and amortization	1,090	1,075	15
Property and other taxes	281	276	5
Impairment charges	—	1	(1)
Total operating expenses	5,154	5,255	(101)
Gain (Loss) on Sales of Other Assets and Other, net	1	(5)	6
Operating Income	2,149	2,062	87
Other Income and Expenses, net	139	162	(23)
Interest Expense	422	424	(2)
Income Before Income Taxes	1,866	1,800	66
Income Tax Expense	652	634	18
Net Income	\$ 1,214	\$ 1,166	\$ 48

PART II

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Carolinas. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2017	2016
Residential sales	(4.8)%	0.1%
General service sales	(1.8)%	0.7%
Industrial sales	(0.8)%	(0.9)%
Wholesale power sales	6.3%	9.8%
Joint dispatch sales	18.2%	(2.3)%
Total sales	(1.4)%	1.8%
Average number of customers	1.5%	1.4%

Year Ended December 31, 2017, as Compared to 2016

Operating Revenues. The variance was driven primarily by:

- a \$179 million decrease in retail sales, net of fuel revenues, due to less favorable weather in the current year.

Partially offset by:

- a \$74 million increase in rider revenues and retail pricing primarily related to energy efficiency programs;
- a \$41 million increase in weather-normal sales volumes to retail customers, net of fuel revenues;
- a \$30 million increase in fuel revenues primarily due to changes in generation mix partially offset by lower retail sales; and
- a \$7 million increase in wholesale power revenues, net of sharing and fuel, primarily due to additional volumes for customers served under long-term contracts.

Operating Expenses. The variance was driven primarily by:

- a \$145 million decrease in operations, maintenance and other expense primarily due to lower expenses at generating plants, lower costs associated with merger commitments related to the Piedmont acquisition in 2016, lower severance expenses, and lower employee benefit costs, partially offset by higher energy efficiency program costs.

Partially offset by:

- a \$25 million increase in fuel expense (including purchased power) primarily due to changes in generation mix, partially offset by lower retail sales; and
- a \$15 million increase in depreciation and amortization expense primarily due to additional plant in service, partially offset by lower amortization of certain regulatory assets.

Other Income and Expenses. The variance was primarily due to a decrease in recognition of post in-service equity returns for projects that had been completed prior to being reflected in customer rates.

Income Tax Expense. The variance was primarily due to an increase in pretax income and the impact of the Tax Act, offset by the impact of research credits and the manufacturing deduction. See the Subsidiary Registrants section above for additional information on the Tax Act and the impact on the effective tax rate.

Matters Impacting Future Results

An order from regulatory authorities disallowing recovery of costs related to closure of ash impoundments could have an adverse impact on Duke Energy Carolinas' financial position, results of operations and cash flows. See Notes 4 and 9 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively, for additional information.

On May 18, 2016, the NCDEQ issued proposed risk classifications for all coal ash surface impoundments in North Carolina. All ash impoundments not previously designated as high priority by the Coal Ash Act were designated as intermediate risk. Certain impoundments classified as intermediate risk, however, may be reassessed in the future as low risk pursuant to legislation enacted on July 14, 2016. Duke Energy Carolinas' estimated AROs related to the closure of North Carolina ash impoundments are based upon the mandated closure method or a probability weighting of potential closure methods for the impoundments that may be reassessed to low risk. As the final risk ranking classifications in North Carolina are delineated, final closure plans and corrective action measures are developed and approved for each site, the closure work progresses, and the closure method scope and remedial action methods are determined, the complexity of work and the amount of coal combustion material could be different than originally estimated and, therefore, could materially impact Duke Energy Carolinas' financial position. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information.

Duke Energy Carolinas is a party to multiple lawsuits and subject to fines and other penalties related to operations at certain North Carolina facilities with ash basins. The outcome of these lawsuits, fines and penalties could have an adverse impact on Duke Energy Carolinas' financial position, results of operations and cash flows. See Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies," for additional information.

Duke Energy Carolinas filed a general rate case on August 25, 2017, to recover costs of complying with CCR regulations and the Coal Ash Act, as well as costs of capital investments in generation, transmission and distribution systems and any increase in expenditures subsequent to previous rate cases. Duke Energy Carolinas' earnings could be adversely impacted if the rate increase is delayed or denied by the NCUC.

Within this Item 7, see the Tax Cuts and Jobs Act above as well as Liquidity and Capital Resources below for risks associated with the Tax Act.

PART II

PROGRESS ENERGY

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2017, 2016 and 2015.

Basis of Presentation

The results of operations and variance discussion for Progress Energy is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2017	2016	Variance
Operating Revenues	\$ 9,783	\$ 9,853	\$ (70)
Operating Expenses			
Fuel used in electric generation and purchased power	3,417	3,644	(227)
Operation, maintenance and other	2,220	2,386	(166)
Depreciation and amortization	1,285	1,213	72
Property and other taxes	503	487	16
Impairment charges	156	7	149
Total operating expenses	7,581	7,737	(156)
Gains on Sales of Other Assets and Other, net	26	25	1
Operating Income	2,228	2,141	87
Other Income and Expenses, net	128	114	14
Interest Expense	824	689	135
Income From Continuing Operations Before Income Taxes	1,532	1,566	(34)
Income Tax Expense From Continuing Operations	264	527	(263)
Income from Continuing Operations	1,268	1,039	229
Income from Discontinued Operations, net of tax	—	2	(2)
Net Income	1,268	1,041	227
Less: Net Income Attributable to Noncontrolling Interests	10	10	—
Net Income Attributable to Parent	\$ 1,258	\$ 1,031	\$ 227

Year Ended December 31, 2017, as Compared to 2016

Operating Revenues. The variance was driven primarily by:

- a \$231 million decrease in fuel revenues primarily due to lower retail sales and changes in generation mix at Duke Energy Progress; and
- an \$87 million decrease in retail sales, net of fuel revenues, due to less favorable weather in the current year.

Partially offset by:

- a \$108 million increase in retail pricing primarily due to Duke Energy Florida's base rate adjustment for the Osprey Acquisition and the completion of the Hines Energy Complex Chiller Uprate Project, as well as the Duke Energy Progress South Carolina rate case;
- a \$76 million increase in rider revenues related to energy efficiency programs at Duke Energy Progress, as well as nuclear asset securitization beginning in July 2016 and extended uprate project revenues beginning in 2017 at Duke Energy Florida; and
- a \$51 million increase in weather-normal sales volumes to retail customers.

Operating Expenses. The variance was driven primarily by:

- a \$227 million decrease in fuel expense and purchased power primarily due to lower retail sales and changes in generation mix at Duke Energy Progress; and

- a \$166 million decrease in operations, maintenance and other expense primarily due to lower plant outage, storm restoration and labor costs.

Partially offset by:

- a \$149 million increase in impairment charges primarily due to the write-off of remaining unrecovered Levy Nuclear Project costs in the current year at Duke Energy Florida and the disallowance from rate base of certain projects at the Mayo and Sutton plants in the current year at Duke Energy Progress related to the partial settlement in the North Carolina rate case; and
- a \$72 million increase in depreciation and amortization expense primarily due to additional plant in service, as well as nuclear regulatory asset amortization at Duke Energy Florida.

Interest Expense. The variance was due to higher debt outstanding, as well as interest charges on North Carolina fuel over collections at Duke Energy Progress and lower debt returns driven by the CR3 regulatory asset debt return ending in June 2016 upon securitization at Duke Energy Florida.

Income Tax Expense. The variance was primarily due to the impact of the Tax Act. See the Subsidiary Registrants section above for additional information on the Tax Act and the impact on the effective tax rate.

Matters Impacting Future Results

An order from regulatory authorities disallowing recovery of costs related to closure of ash impoundments could have an adverse impact on Progress

PART II

Energy's financial position, results of operations and cash flows. See Notes 4 and 9 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively, for additional information.

On May 18, 2016, the NCDEQ issued proposed risk classifications for all coal ash surface impoundments in North Carolina. All ash impoundments not previously designated as high priority by the Coal Ash Act were designated as intermediate risk. Certain impoundments classified as intermediate risk, however, may be reassessed in the future as low risk pursuant to legislation enacted on July 14, 2016. Progress Energy's estimated AROs related to the closure of North Carolina ash impoundments are based upon the mandated closure method or a probability weighting of potential closure methods for the impoundments that may be reassessed to low risk. As the final risk ranking classifications in North Carolina are delineated, final closure plans and corrective action measures are developed and approved for each site, the closure work progresses, and the closure method scope and remedial action methods are determined, the complexity of work and the amount of coal combustion material could be different than originally estimated and, therefore, could materially impact Progress Energy's financial position. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information.

Duke Energy Progress is a party to multiple lawsuits and subject to fines and other penalties related to operations at certain North Carolina facilities with ash basins. The outcome of these lawsuits, fines and penalties could have an adverse impact on Progress Energy's financial position, results of operations and cash flows. See Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies," for additional information.

In the fourth quarter of 2016, Hurricane Matthew caused historic flooding, extensive damage and widespread power outages within the Duke Energy Progress service territory. Duke Energy Progress filed a petition with the North

Carolina Utilities Commission (NCUC) requesting an accounting order to defer incremental operation and maintenance and capital costs incurred in response to Hurricane Matthew and other significant 2016 storms. The NCUC will address this request in Duke Energy Progress' currently pending rate case. A final order from the NCUC that disallows the deferral and future recovery of all or a significant portion of the incremental storm restoration costs incurred could result in an adverse impact on Electric Utilities and Infrastructure's financial position, results of operations and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Duke Energy Progress filed a general rate case with the NCUC on June 1, 2017. Duke Energy Progress will seek to recover costs of complying with CCR regulations and the Coal Ash Act, as well as costs of capital investments in generation, transmission and distribution systems and any increase in expenditures subsequent to previous rate cases. Progress Energy's earnings could be adversely impacted if the rate increase is delayed or denied by the NCUC.

On August 29, 2017, Duke Energy Florida filed the 2017 Settlement with the FPSC. On November 20, 2017, the FPSC issued an order to approve the 2017 Settlement. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information about the 2017 Settlement. In accordance with the 2017 Settlement, Duke Energy Florida will not seek recovery of any costs associated with the ongoing Westinghouse contract litigation, which is currently being appealed. See Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies" for additional information about the litigation. An unfavorable appeals ruling on that matter could have an adverse impact on Electric Utilities and Infrastructure's financial position, results of operations and cash flows.

Within this Item 7, see the Tax Cuts and Jobs Act above as well as Liquidity and Capital Resources below for risks associated with the Tax Act.

DUKE ENERGY PROGRESS

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2017, 2016 and 2015.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Progress is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2017	2016	Variance
Operating Revenues	\$ 5,129	\$ 5,277	\$ (148)
Operating Expenses			
Fuel used in electric generation and purchased power	1,609	1,830	(221)
Operation, maintenance and other	1,389	1,504	(115)
Depreciation and amortization	725	703	22
Property and other taxes	156	156	—
Impairment charges	19	1	18
Total operating expenses	3,898	4,194	(296)
Gains on Sales of Other Asset and Other, net	4	3	1
Operating Income	1,235	1,086	149
Other Income and Expenses, net	65	71	(6)
Interest Expense	293	257	36
Income Before Income Taxes	1,007	900	107
Income Tax Expense	292	301	(9)
Net Income	\$ 715	\$ 599	\$ 116

PART II

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Progress. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2017	2016
Residential sales	(2.6)%	(1.5)%
General service sales	(1.3)%	0.2%
Industrial sales	1.1%	(0.1)%
Wholesale power sales	(2.9)%	18.4%
Joint dispatch sales	(17.1)%	17.7%
Total sales	(3.2)%	6.4%
Average number of customers	1.4%	1.3%

Year Ended December 31, 2017, as Compared to 2016

Operating Revenues. The variance was driven primarily by:

- a \$238 million decrease in fuel revenues due to lower retail sales and changes in generation mix; and
- a \$37 million decrease in retail sales, net of fuel revenues, due to less favorable weather in the current year, partially offset by lower lost revenues related to hurricanes in the current year.

Partially offset by:

- a \$40 million increase in rider revenues primarily due to energy efficiency programs;
- a \$38 million increase in retail sales due to the South Carolina rate case; and
- a \$31 million increase in wholesale power revenues, net of fuel, primarily due to higher peak demand.

Operating Expenses. The variance was driven primarily by:

- a \$221 million decrease in fuel used in electric generation and purchased power primarily due to lower retail sales and changes in generation mix; and
- a \$115 million decrease in operation, maintenance and other expense primarily due to lower nuclear outage costs and lower storm restoration costs.

Partially offset by:

- a \$22 million increase in depreciation and amortization expense primarily due to additional plant in service; and
- an \$18 million increase in impairment charges primarily due to the disallowance from rate base of certain projects at the Mayo and Sutton plants in the current year related to the partial settlement in the North Carolina rate case.

Interest Expense. The variance was due to higher debt outstanding, as well as interest charges on North Carolina fuel overcollections.

Income Tax Expense. The variance was primarily due to the impact of the Tax Act and lower North Carolina corporate tax rates, partially offset by an increase in pretax net income. See the Subsidiary Registrants section above for additional information on the Tax Act and the impact on the effective tax rate.

Matters Impacting Future Results

An order from regulatory authorities disallowing recovery of costs related to closure of ash impoundments could have an adverse impact on Duke Energy

Progress' financial position, results of operations and cash flows. See Notes 4 and 9 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively, for additional information.

On May 18, 2016, the NCDEQ issued proposed risk classifications for all coal ash surface impoundments in North Carolina. All ash impoundments not previously designated as high priority by the Coal Ash Act were designated as intermediate risk. Certain impoundments classified as intermediate risk, however, may be reassessed in the future as low risk pursuant to legislation enacted on July 14, 2016. Duke Energy Progress' estimated AROs related to the closure of North Carolina ash impoundments are based upon the mandated closure method or a probability weighting of potential closure methods for the impoundments that may be reassessed to low risk. As the final risk ranking classifications in North Carolina are delineated, final closure plans and corrective action measures are developed and approved for each site, the closure work progresses, and the closure method scope and remedial action methods are determined, the complexity of work and the amount of coal combustion material could be different than originally estimated and, therefore, could materially impact Duke Energy Progress' financial position. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information.

Duke Energy Progress is a party to multiple lawsuits and subject to fines and other penalties related to operations at certain North Carolina facilities with ash basins. The outcome of these lawsuits, fines and penalties could have an adverse impact on Duke Energy Progress' financial position, results of operations and cash flows. See Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies," for additional information.

In the fourth quarter of 2016, Hurricane Matthew caused historic flooding, extensive damage and widespread power outages within the Duke Energy Progress service territory. Duke Energy Progress filed a petition with the North Carolina Utilities Commission (NCUC) requesting an accounting order to defer incremental operation and maintenance and capital costs incurred in response to Hurricane Matthew and other significant 2016 storms. The NCUC will address this request in Duke Energy Progress' currently pending rate case. A final order from the NCUC that disallows the deferral and future recovery of all or a significant portion of the incremental storm restoration costs incurred could result in an adverse impact on Electric Utilities and Infrastructure's financial position, results of operations and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Duke Energy Progress filed a general rate case with the NCUC on June 1, 2017. Duke Energy Progress will seek to recover costs of complying with CCR regulations and the Coal Ash Act, as well as costs of capital investments in generation, transmission and distribution systems and any increase in expenditures subsequent to previous rate cases. Duke Energy Progress' earnings could be adversely impacted if the rate increase is delayed or denied by the NCUC. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see the Tax Cuts and Jobs Act above as well as Liquidity and Capital Resources below for risks associated with the Tax Act.

PART II

DUKE ENERGY FLORIDA

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2017, 2016 and 2015.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Florida is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2017	2016	Variance
Operating Revenues	\$ 4,646	\$ 4,568	\$ 78
Operating Expenses			
Fuel used in electric generation and purchased power	1,808	1,814	(6)
Operation, maintenance and other	818	865	(47)
Depreciation and amortization	560	509	51
Property and other taxes	347	333	14
Impairment charges	138	6	132
Total operating expenses	3,671	3,527	144
Gains on Sales of Other Asset and Other, net	1	—	1
Operating Income	976	1,041	(65)
Other Income and Expenses, net	61	44	17
Interest Expense	279	212	67
Income Before Income Taxes	758	873	(115)
Income Tax Expense	46	322	(276)
Net Income	\$ 712	\$ 551	\$ 161

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Florida. The below percentages for retail customer classes represent billed sales only. Wholesale power sales include both billed and unbilled sales. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2017	2016
Residential sales	(2.3)%	1.7%
General service sales	(1.3)%	(0.1)%
Industrial sales	(2.4)%	(2.9)%
Wholesale power sales	20.1%	35.2%
Total sales	0.5%	0.9%
Average number of customers	1.6%	1.5%

Year Ended December 31, 2017, as Compared to 2016

Operating Revenues. The variance was driven primarily by:

- a \$70 million increase in retail pricing primarily due to the base rate adjustment for the Osprey acquisition and the completion of the Hines Energy Complex Chiller Uprate Project;
- a \$45 million increase in weather-normal sales volumes to retail customers in the current year; and
- a \$36 million increase in rider revenues primarily due to nuclear asset securitization beginning in July 2016 and extended power uprate project revenues beginning in 2017.

Partially offset by:

- a \$50 million decrease in retail sales, net of fuel revenues, due to less favorable weather in the current year, including lost revenues related to Hurricane Irma; and
- a \$34 million decrease in wholesale power revenues primarily due to contracts that expired in the prior year.

Operating Expenses. The variance was driven primarily by:

- a \$132 million increase in impairment charges primarily due to the write-off of remaining unrecovered Levy Nuclear Project costs in the current year; and
- a \$51 million increase in depreciation and amortization expense primarily due to nuclear regulatory asset amortization, as well as additional plant in service.

Partially offset by:

- a \$47 million decrease in operations and maintenance expense primarily due to lower planned outage costs, lower severance expenses and lower employee benefit costs, partially offset by higher storm restoration costs in the current year.

Other Income and Expenses. The variance was primarily driven by higher AFUDC equity.

PART II

Interest Expense. The variance was primarily due to higher debt outstanding and lower debt returns driven by the Crystal River Unit 3 regulatory asset debt return ending in June 2016 upon securitization.

Income Tax Expense. The variance was primarily due to the impact of the Tax Act and lower pretax earnings. See the Subsidiary Registrants section above for additional information on the Tax Act and the impact on the effective tax rate.

Matters Impacting Future Results

On August 29, 2017, Duke Energy Florida filed the 2017 Settlement with the FPSC. On November 20, 2017, the FPSC issued an order to approve

the 2017 Settlement. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information about the 2017 Settlement. In accordance with the 2017 Settlement, Duke Energy Florida will not seek recovery of any costs associated with the ongoing Westinghouse contract litigation, which is currently being appealed. See Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies" for additional information about the litigation. An unfavorable appeals ruling on that matter could have an adverse impact on Electric Utilities and Infrastructure's financial position, results of operations and cash flows.

Within this Item 7, see the Tax Cuts and Jobs Act above as well as Liquidity and Capital Resources below for risks associated with the Tax Act.

DUKE ENERGY OHIO

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2017, 2016 and 2015.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Ohio is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2017	2016	Variance
Operating Revenues			
Regulated electric	\$ 1,373	\$ 1,410	\$ (37)
Nonregulated electric and other	42	31	11
Regulated natural gas	508	503	5
Total operating revenues	1,923	1,944	(21)
Operating Expenses			
Fuel used in electric generation and purchased power – regulated	369	442	(73)
Fuel used in electric generation and purchased power – nonregulated	58	51	7
Cost of natural gas	107	103	4
Operation, maintenance and other	524	512	12
Depreciation and amortization	261	233	28
Property and other taxes	278	258	20
Impairment charges	1	—	1
Total operating expenses	1,598	1,599	(1)
Gains on Sales of Other Assets and Other, net	1	2	(1)
Operating Income	326	347	(21)
Other Income and Expenses, net	17	9	8
Interest Expense	91	86	5
Income from Continuing Operations Before Income Taxes	252	270	(18)
Income Tax Expense from Continuing Operations	59	78	(19)
Income from Continuing Operations	193	192	1
(Loss) Income from Discontinued Operations, net of tax	(1)	36	(37)
Net Income	\$ 192	\$ 228	\$ (36)

The following table shows the percent changes in GWh sales of electricity, dekatherms of natural gas delivered and average number of electric and natural gas customers for Duke Energy Ohio. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	Electric		Natural Gas	
	2017	2016	2017	2016
Residential sales	(4.0)%	0.7%	(2.6)%	(7.8)%
General service sales	(3.1)%	1.3%	0.7%	(3.6)%
Industrial sales	(2.7)%	(0.7)%	(2.8)%	(5.1)%
Wholesale electric power sales	65.7%	(53.9)%	n/a	n/a
Other natural gas sales	n/a	n/a	(0.3)%	6.2%
Total sales	(2.1)%	(1.1)%	(1.1)%	(3.1)%
Average number of customers	0.8%	0.8%	0.7%	0.5%

PART II

Year Ended December 31, 2017, as Compared to 2016

Operating Revenues. The variance was driven primarily by:

- a \$69 million decrease in fuel revenues primarily due to lower electric fuel costs and a decrease in electric and natural gas sales volumes; and
- a \$16 million decrease in electric retail sales, net of fuel revenues, due to less favorable weather in the current year.

Partially offset by:

- a \$38 million increase in rider revenues primarily due to growth in energy efficiency programs and a rate increase for the distribution capital investment rider, partially offset by a decrease in the percentage of income payment plan rider due to a rate decrease;
- a \$10 million increase in PJM Interconnection, LLC (PJM) transmission revenues;
- a \$9 million increase in other revenues related to OVEC; and
- a \$6 million increase in non-native sales for resale.

Operating Expenses. The variance was driven by:

- a \$66 million decrease in fuel expense, primarily due to lower sales volumes and lower electric fuel costs.

Partially offset by:

- a \$28 million increase in depreciation and amortization expense due to additional plant in service and a true-up related to SmartGrid assets in the prior year;
- a \$20 million increase in property and other taxes due to higher property taxes; and
- a \$12 million increase in operations, maintenance and other expense primarily due to higher energy efficiency program costs and higher transmission and distribution operations costs; partially offset by lower fossil/hydro operations costs due to timing of outage schedules.

Income Tax Expense. The variance was primarily due to the impact of the Tax Act. See the Subsidiary Registrants section above for additional information on the Tax Act and the impact on the effective tax rate.

Income from Discontinued Operations, Net of Tax. The variance was primarily driven by a prior year income tax benefit resulting from immaterial out of period deferred tax liability adjustments related to the Midwest Generation Disposal Group. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information.

Matters Impacting Future Results

An order from regulatory authorities disallowing recovery of costs related to closure of ash basins could have an adverse impact on Duke Energy Ohio's

financial position, results of operations and cash flows. See Notes 4 and 9 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively, for additional information.

Duke Energy Ohio's nonregulated Beckjord station, a facility retired during 2014, is not subject to the EPA rule related to the disposal of CCR from electric utilities. However, if costs are incurred as a result of environmental regulations or to mitigate risk associated with on-site storage of coal ash at the facility, the costs could have an adverse impact on Duke Energy Ohio's financial position, results of operations and cash flows.

Duke Energy Ohio has a 9 percent ownership interest in OVEC, which owns 2,256 MW of coal-fired generation capacity. As a counterparty to an ICPA, Duke Energy Ohio has a contractual arrangement to receive entitlements to capacity and energy from OVEC's power plants through June 2040 commensurate with its power participation ratio, which is equivalent to Duke Energy Ohio's ownership interest. Costs, including fuel, operating expenses, fixed costs, debt amortization and interest expense, are allocated to counterparties to the ICPA, including Duke Energy Ohio, based on their power participation ratio. The value of the ICPA is subject to variability due to fluctuations in power prices and changes in OVEC's costs of business. Deterioration in the credit quality or bankruptcy of one or more parties to the ICPA could increase the costs of OVEC. In addition, certain proposed environmental rulemaking costs could result in future increased cost allocations.

On March 2, 2017, Duke Energy Ohio filed an electric distribution base rate application with the PUCO to address recovery of electric distribution system capital investments and any increase in expenditures subsequent to previous rate cases. The application also includes requests to continue certain current riders and establish new riders related to LED Outdoor Lighting Service and regulatory mandates. Duke Energy Ohio's earnings could be adversely impacted if the rate case and requested riders are delayed or denied by the PUCO. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On September 1, 2017, Duke Energy Kentucky filed a base rate case with the KPSC to recover costs of capital investments in generation, transmission and distribution systems and to recover other incremental expenses since its last rate case filed in 2006. The application also includes request to establish new riders. Duke Energy Kentucky's earnings could be adversely impacted if the rate increase is delayed or denied by the KPSC.

Within this Item 7, see the Tax Cuts and Jobs Act above as well as Liquidity and Capital Resources below for risks associated with the Tax Act.

DUKE ENERGY INDIANA

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2017, 2016 and 2015.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Indiana is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

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PART II

Results of Operations

(in millions)	Years Ended December 31,		
	2017	2016	Variance
Operating Revenues	\$ 3,047	\$ 2,958	\$ 89
Operating Expenses			
Fuel used in electric generation and purchased power	966	909	57
Operation, maintenance and other	733	723	10
Depreciation and amortization	458	496	(38)
Property and other taxes	76	58	18
Impairment charges	18	8	10
Total operating expenses	2,251	2,194	57
Gains on Sales of Other Assets and Other, net	—	1	(1)
Operating Income	796	765	31
Other Income and Expenses, net	37	22	15
Interest Expense	178	181	(3)
Income Before Income Taxes	655	606	49
Income Tax Expense	301	225	76
Net Income	\$ 354	\$ 381	\$ (27)

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Indiana. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2017	2016
Residential sales	(3.8)%	(0.4)%
General service sales	(2.4)%	0.7%
Industrial sales	0.3%	0.4%
Wholesale power sales	(10.5)%	10.8%
Total sales	(3.6)%	2.5%
Average number of customers	0.8%	1.1%

Year Ended December 31, 2017, as Compared to 2016

Operating Revenues. The variance was driven primarily by:

- a \$67 million increase in rate rider revenues primarily related to the Edwardsport IGCC plant, the Transmission, Distribution and Storage System Improvement Charge (TDSIC) and energy efficiency programs; and
- a \$48 million increase in fuel revenues primarily due to higher purchased power costs passed through to customers and higher financial transmission rights (FTR) revenues.

Partially offset by:

- a \$13 million decrease in retail sales due to less favorable weather in the current year; and
- a \$13 million decrease in wholesale power revenues, net of fuel, primarily due to a decrease in demand rates and contracts that expired in the current year.

Operating Expenses. The variance was driven primarily by:

- a \$57 million increase in fuel used in electric generation and purchased power expenses, primarily due to higher purchased power volumes, partially offset by favorable fuel prices;
- an \$18 million increase in property and other taxes primarily due to higher franchise taxes;

- a \$10 million increase in operations, maintenance and other expense primarily due to growth in energy efficiency programs and higher transmission costs; and
- a \$10 million increase in impairments and other charges primarily due to the impairment of certain metering equipment not recoverable in customer rates.

Partially offset by:

- a \$38 million decrease in depreciation and amortization primarily due to the recognition of certain asset retirement obligations in 2016 that were subsequently deferred in 2017, partially offset by new IGCC rates that result in a lower deferral amount and higher depreciation due to additional plant in service.

Other Income and Expense. The variance was driven primarily by higher AFUDC equity.

Income Tax Expense. The variance was primarily due to the impact of the Tax Act and an increase in pretax income. See the Subsidiary Registrants section above for additional information on the Tax Act and the impact on the effective tax rate.

PART II

Matters Impacting Future Results

On April 17, 2015, the EPA published in the Federal Register a rule to regulate the disposal of CCR from electric utilities as solid waste. Duke Energy Indiana has interpreted the rule to identify the coal ash basin sites impacted and has assessed the amounts of coal ash subject to the rule and a method of compliance. Duke Energy Indiana's interpretation of the requirements of the CCR rule is subject to potential legal challenges and further regulatory approvals, which could result in additional ash basin closure requirements, higher costs of compliance and greater AROs. Additionally, Duke Energy Indiana has retired facilities that are not subject to the CCR rule. Duke Energy Indiana may incur costs at these facilities to comply with environmental regulations or to mitigate risks associated with on-site storage of coal ash. An order from regulatory authorities disallowing recovery of costs related to closure of ash basins

could have an adverse impact on Duke Energy Indiana's financial position, results of operations and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

In August 2016, the Indiana Utility Regulatory Commission (IURC) approved a settlement agreement between Duke Energy Indiana and multiple parties that resolves all disputes, claims and issues from the IURC proceedings related to post-commercial operating performance and recovery of ongoing operating and capital costs at the Edwardsport IGCC generating facility. The settlement agreement imposed a cost cap for retail recoverable operations and maintenance costs through 2017. An inability to manage future operating costs may result in unfavorable orders that could have an adverse impact on Duke Energy Indiana's financial position, results of operations and cash flows.

Within this Item 7, see the Tax Cuts and Jobs Act above as well as Liquidity and Capital Resources below for risks associated with the Tax Act.

PIEDMONT

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the year ended December 31, 2017, Piedmont's Annual Report on Form 10-K for the year ended October 31, 2016, and the Form 10-QT as of December 31, 2016, for the transition period from November 1, 2016 to December 31, 2016. The unaudited results of operations for the year ended December 31, 2016, was derived from data previously reported in the reports noted above.

Basis of Presentation

The results of operations and variance discussion for Piedmont is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2017	2016	Variance
Operating Revenues			
Regulated natural gas	\$ 1,319	\$ 1,201	\$ 118
Nonregulated natural gas and other	9	10	(1)
Total operating revenues	1,328	1,211	117
Operating Expenses			
Cost of natural gas	524	451	73
Operation, maintenance and other	315	353	(38)
Depreciation and amortization	148	138	10
Property and other taxes	48	43	5
Impairment charges	7	—	7
Total operating expenses	1,042	985	57
Operating Income	286	226	60
Equity in (losses) earnings of unconsolidated affiliates	(6)	26	(32)
Gain on sale of unconsolidated affiliates	—	132	(132)
Other income and expenses, net	—	1	(1)
Total other income and expenses	(6)	159	(165)
Interest Expense	79	69	10
Income Before Income Taxes	201	316	(115)
Income Tax Expense	62	121	(59)
Net Income	\$ 139	\$ 195	\$ (56)

PART II

The following table shows the percent changes in dekatherms delivered and average number of customers. The percentages for all throughput deliveries represent billed and unbilled sales. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2017	2016
Residential deliveries	(8.1)%	(0.8)%
Commercial deliveries	(4.3)%	1.6%
Industrial deliveries	(2.2)%	0.5%
Power generation deliveries	(5.8)%	10.7%
For resale	(20.9)%	1.3%
Total throughput deliveries	(5.4)%	6.3%
Secondary market volumes	(4.2)%	120.6%
Average number of customers	1.7%	1.6%

Piedmont's throughput was 468,259,777 dekatherms and 495,122,794 dekatherms for the years ended December 31, 2017, and 2016, respectively. Due to the margin decoupling mechanism in North Carolina and weather normalization adjustment (WNA) mechanisms in South Carolina and Tennessee, changes in throughput deliveries do not have a material impact on Piedmont's revenues or earnings. The margin decoupling mechanism adjusts for variations in residential and commercial use per customer, including those due to weather and conservation. The WNA mechanisms mostly offset the impact of weather on bills rendered, but do not ensure full recovery of approved margin during periods when winter weather is significantly warmer or colder than normal.

- a \$32 million decrease in equity in (losses) earnings of unconsolidated affiliates primarily due to equity earnings from the investment in SouthStar in the prior year and the impacts of the Tax Act in the current year.

Income Tax Expense. The variance was primarily due to a decrease in pretax income and the impact of the Tax Act. See the Subsidiary Registrants section above for additional information on the Tax Act and the impact on the effective tax rate.

Year Ended December 31, 2017, as Compared to 2016

Operating Revenues. The variance was driven primarily by:

- a \$74 million increase due to higher natural gas costs passed through to customers primarily due to higher natural gas prices;
- a \$34 million increase in revenues to residential and commercial customers, net of natural gas costs passed through to customers, primarily due to Integrity Management Rider (IMR) rate adjustments and customer growth. Increase is also due to new power generation customers, and is partially offset by wholesale marketing revenue; and
- a \$10 million increase in revenues due to merger-related bill credits applied to customer bills in 2016.

Operating Expenses. The variance was driven by:

- a \$73 million increase in costs of natural gas primarily due to higher natural gas costs passed through to customers due to the higher price per dekatherm of natural gas;
- a \$15 million increase in depreciation expense and property and franchise taxes due to additional plant in service; and
- a \$7 million increase due to an impairment of software resulting from planned accounting system and process integration in 2018.

Partially offset by:

- a \$38 million decrease in operations, maintenance and other related to acquisition and integration expenses recorded in the prior year from costs paid to outside parties, primarily financial and legal advisory, severance expenses, retention costs and acceleration of incentive plans, and an accrual for our commitment of charitable contributions and community support.

Other Income and Expense. The variance was driven by:

- a \$132 million decrease in gain on sale of unconsolidated affiliates recorded in the prior year due to Piedmont's sale of its 15 percent ownership interest in SouthStar Energy Services, LLC (SouthStar) on October 3, 2016; and

Matters Impacting Future Results

Within this Item 7, see the Tax Cuts and Jobs Act above as well as Liquidity and Capital Resources below for risks associated with the Tax Act.

CRITICAL ACCOUNTING POLICIES AND ESTIMATES

Preparation of financial statements requires the application of accounting policies, judgments, assumptions and estimates that can significantly affect the reported results of operations, cash flows or the amounts of assets and liabilities recognized in the financial statements. Judgments made include the likelihood of success of particular projects, possible legal and regulatory challenges, earnings assumptions on pension and other benefit fund investments and anticipated recovery of costs, especially through regulated operations.

Management discusses these policies, estimates and assumptions with senior members of management on a regular basis and provides periodic updates on management decisions to the Audit Committee of the Board of Directors. Management believes the areas described below require significant judgment in the application of accounting policy or in making estimates and assumptions that are inherently uncertain and that may change in subsequent periods.

For further information, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

Regulated Operations Accounting

Substantially all of Duke Energy's regulated operations meet the criteria for application of regulated operations accounting treatment. As a result, Duke Energy is required to record assets and liabilities that would not be recorded for nonregulated entities. Regulatory assets generally represent incurred costs that have been deferred because such costs are probable of future recovery in customer rates. Regulatory liabilities are recorded when it is probable that a regulator will require Duke Energy to make refunds to customers or reduce rates to customers for previous collections or deferred revenue for costs that have yet to be incurred.

Management continually assesses whether recorded regulatory assets are probable of future recovery by considering factors such as applicable regulatory environment changes, historical regulatory treatment for similar costs in Duke Energy's jurisdictions, litigation of rate orders, recent rate orders to other regulated entities, levels of actual return on equity compared to approved

PART II

rates of return on equity and the status of any pending or potential deregulation legislation. If future recovery of costs ceases to be probable, asset write-offs would be recognized in operating income. Additionally, regulatory agencies can provide flexibility in the manner and timing of the depreciation of property, plant and equipment, recognition of asset retirement costs and amortization of regulatory assets, or may disallow recovery of all or a portion of certain assets. For further information on regulatory assets and liabilities, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

As required by regulated operations accounting rules, significant judgment can be required to determine if an otherwise recognizable incurred cost, such as closure costs for ash impoundments, qualifies to be deferred for future recovery as a regulatory asset. Significant judgment can also be required to determine if revenues previously recognized are for entity specific costs that are no longer expected to be incurred or have not yet been incurred and are therefore a regulatory liability. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for a more in-depth discussion of Regulatory Assets and Liabilities.

Regulated operations accounting rules also require recognition of a disallowance (also called "impairment") loss if it becomes probable that part of the cost of a plant under construction (or a recently completed or an abandoned plant) will be disallowed for ratemaking purposes and a reasonable estimate of the amount of the disallowance can be made. For example, if a cost cap is set for a plant still under construction, the amount of the disallowance is a result of a judgment as to the ultimate cost of the plant. Other disallowances can require judgments on allowed future rate recovery. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for a discussion of disallowances recorded.

When it becomes probable that regulated assets will be abandoned, the cost of the asset is removed from plant in service. The value that may be retained as a regulatory asset on the balance sheet for the abandoned property is dependent upon amounts that may be recovered through regulated rates, including any return. As such, an impairment charge, if any, could be partially or fully offset by the establishment of a regulatory asset if rate recovery is probable. The impairment for a disallowance of costs for regulated plants under construction, recently completed or abandoned is based on discounted cash flows.

For further information, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

Goodwill Impairment Assessments

Duke Energy allocates goodwill to reporting units, which are either the Business Segments listed in Note 3 to the Consolidated Financial Statements or one level below based on how the Business Segment is managed. Duke Energy is required to test goodwill for impairment at least annually and more frequently if it is more likely than not that the fair value is less than the carrying value. Duke Energy performs its annual impairment test as of August 31.

Application of the goodwill impairment test requires management's judgment, including determining the fair value of the reporting unit, which management estimates using a weighted combination of the income approach, which estimates fair value based on discounted cash flows, and the market approach, which estimates fair value based on market comparables within the utility and energy industries. Significant assumptions used in these fair value analyses include discount and growth rates, future rates of return expected to result from ongoing rate regulation, utility sector market performance and transactions, forecasted earnings base, projected operating and capital cash flows for Duke Energy's business and the fair value of debt.

Estimated future cash flows under the income approach are based to a large extent on Duke Energy's internal business plan, and adjusted as appropriate for Duke Energy's views of market participant assumptions. Duke Energy's internal business plan reflects management's assumptions related to customer usage and attrition based on internal data and economic data obtained from third-party sources, projected commodity pricing data and

potential changes in environmental regulations. The business plan assumes the occurrence of certain events in the future, such as the outcome of future rate filings, future approved rates of returns on equity, anticipated earnings/returns related to significant future capital investments, continued recovery of cost of service, the renewal of certain contracts and the future of renewable tax credits. Management also makes assumptions regarding operation, maintenance and general and administrative costs based on the expected outcome of the aforementioned events. In estimating cash flows, Duke Energy incorporates expected growth rates, regulatory and economic stability, the ability to renew contracts and other factors, into its revenue and expense forecasts.

One of the most significant assumptions that Duke Energy utilizes in determining the fair value of its reporting units under the income approach is the discount rate applied to the estimated future cash flows. Management determines the appropriate discount rate for each of its reporting units based on the weighted average cost of capital (WACC) for each individual reporting unit. The WACC takes into account both the after-tax cost of debt and cost of equity. A major component of the cost of equity is the current risk-free rate on 20-year U.S. Treasury bonds. In the 2017 impairment tests, Duke Energy considered implied WACCs for certain peer companies in determining the appropriate WACC rates to use in its analysis. As each reporting unit has a different risk profile based on the nature of its operations, including factors such as regulation, the WACC for each reporting unit may differ. Accordingly, the WACCs were adjusted, as appropriate, to account for company specific risk premiums. The discount rates used for calculating the fair values as of August 31, 2017, for each of Duke Energy's reporting units ranged from 5.3 percent to 6.7 percent. The underlying assumptions and estimates are made as of a point in time. Subsequent changes, particularly changes in the discount rates, authorized regulated rates of return or growth rates inherent in management's estimates of future cash flows, could result in future impairment charges.

One of the most significant assumptions utilized in determining the fair value of reporting units under the market approach is implied market multiples for certain peer companies. Management selects comparable peers based on each peer's primary business mix, operations, and market capitalization compared to the applicable reporting unit and calculates implied market multiples based on available projected earnings guidance and peer company market values as of August 31.

In December 2016, Duke Energy disposed of its International operations and no longer has goodwill associated with the International operations. For further information, see Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions."

Duke Energy primarily operates in environments that are rate-regulated. In such environments, revenue requirements are adjusted periodically by regulators based on factors including levels of costs, sales volumes and costs of capital. Accordingly, Duke Energy's regulated utilities operate to some degree with a buffer from the direct effects, positive or negative, of significant swings in market or economic conditions. However, significant changes in discount rates over a prolonged period may have a material impact on the fair value of equity.

As of August 31, 2017, all of the reporting units' estimated fair value of equity substantially exceeded the carrying value of equity, except for the Commercial Renewables reporting units. The goodwill at the Energy Management Solutions reporting unit of Commercial Renewables was evaluated for recoverability in 2017, and Duke Energy recorded impairment charges of \$29 million.

The Commercial Renewables reporting units are impacted by a multitude of factors including, legislative actions related to tax credit extensions, long-term growth rate assumptions and discount rates. As of August 31, 2017, the Renewables reporting unit's estimated fair value of equity exceeded the carrying value of equity by less than 10 percent. Management continues to monitor these assumptions for any indicators that the fair value of the reporting unit could be below the carrying value and will assess goodwill for impairment as appropriate.

For further information, see Note 11 to the Consolidated Financial Statements, "Goodwill and Intangible Assets."

PART II

Asset Retirement Obligations

AROs are recognized for legal obligations associated with the retirement of property, plant and equipment. Substantially all AROs are related to regulated operations. When recording an ARO, the present value of the projected liability is recognized in the period in which it is incurred, if a reasonable estimate of fair value can be made. The liability is accreted over time. For operating plants, the present value of the liability is added to the cost of the associated asset and depreciated over the remaining life of the asset. For retired plants, the present value of the liability is recorded as a regulatory asset unless determined not to be recoverable.

The present value of the initial obligation and subsequent updates are based on discounted cash flows, which include estimates regarding timing of future cash flows, selection of discount rates and cost escalation rates, among other factors. These estimates are subject to change. Depreciation expense is adjusted prospectively for any changes to the carrying amount of the associated asset. The Duke Energy Registrants receive amounts to fund the cost of the ARO for regulated operations through a combination of regulated revenues and earnings on the nuclear decommissioning trust fund (NDTF). As a result, accretion expense and depreciation of the associated ARO asset are netted and deferred as a regulatory asset or liability.

Obligations for nuclear decommissioning are based on site-specific cost studies. Duke Energy Carolinas and Duke Energy Progress assume prompt dismantlement of the nuclear facilities after operations are ceased. Duke Energy Florida assumes Crystal River Unit 3 will be placed into a safe storage configuration until eventual dismantlement is completed by 2074. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida also assume that spent fuel will be stored on-site until such time that it can be transferred to a yet to be built U.S. Department of Energy (DOE) facility.

Obligations for closure of ash basins are based upon discounted cash flows of estimated costs for site-specific plans, if known, or probability weightings of the potential closure methods if the closure plans are under development and multiple closure options are being considered and evaluated on a site-by-site basis.

For further information, see Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations."

Long-Lived Asset Impairment Assessments, Excluding Regulated Operations, and Equity Method Investments

Property, plant and equipment, excluding plant held for sale, is stated at the lower of carrying value (historical cost less accumulated depreciation and previously recorded impairments) or fair value, if impaired. Duke Energy evaluates property, plant and equipment for impairment when events or changes in circumstances (such as a significant change in cash flow projections or the determination that it is more likely than not that an asset or asset group will be sold) indicate the carrying value of such assets may not be recoverable. The determination of whether an impairment has occurred is based on an estimate of undiscounted future cash flows attributable to the assets, as compared with their carrying value.

Performing an impairment evaluation involves a significant degree of estimation and judgment in areas such as identifying circumstances that indicate an impairment may exist, identifying and grouping affected assets and developing the undiscounted future cash flows. If an impairment has occurred, the amount of the impairment recognized is determined by estimating the fair value and recording a loss if the carrying value is greater than the fair value. Additionally, determining fair value requires probability weighting future cash flows to reflect expectations about possible variations in their amounts or timing and the selection of an appropriate discount rate. Although cash flow estimates are based on relevant information available at the time the estimates are made, estimates of future cash flows are, by nature, highly uncertain and may vary significantly from actual results.

When determining whether an asset or asset group has been impaired, management groups assets at the lowest level that has discrete cash flows.

Investments in affiliates that are not controlled by Duke Energy, but over which it has significant influence, are accounted for using the equity method. Equity method investments are assessed for impairment when conditions exist that indicate that the fair value of the investment is less than book value. If the decline in value is considered to be other than temporary, the investment is written down to its estimated fair value, which establishes a new cost basis in the investment.

For further information, see Notes 10 and 12 to the Consolidated Financial Statements, "Property, Plant and Equipment" and "Investments in Unconsolidated Affiliates," respectively.

Revenue Recognition

Revenues on sales of electricity and natural gas are recognized when service is provided or the product is delivered. As retail meters are read, invoices are prepared and the invoice amount is generally recognized as "billed" revenue. Operating revenues also include "unbilled" electric and natural gas revenues for the amount of service provided or product delivered after the last meter reading prior to the end of the accounting period. Unbilled retail revenues are estimated by applying an average revenue per kilowatt-hour (kWh), per thousand cubic feet (Mcf) or per dekatherm (dth) for all customer classes to the number of estimated kWh, Mcf or dth delivered but not yet billed.

For wholesale customers, the invoice amount is generally recognized as "billed" revenue. Although meters are read as of the end of the month, invoices have typically not been prepared. An estimate of the wholesale invoice is included in the reported amount of "unbilled" revenue.

The amount of unbilled revenues can vary significantly from period to period as a result of numerous factors that impact the change in the unbilled revenue receivable balance, including seasonality, weather, customer usage patterns, customer mix, timing of rendering customer bills, meter readings schedules and the average price in effect for customer classes.

Pension and Other Post-Retirement Benefits

The calculation of pension expense, other post-retirement benefit expense and net pension and other post-retirement assets or liabilities require the use of assumptions and election of permissible accounting alternatives. Changes in assumptions can result in different expense and reported asset or liability amounts and future actual experience can differ from the assumptions. Duke Energy believes the most critical assumptions for pension and other post-retirement benefits are the expected long-term rate of return on plan assets and the assumed discount rate applied to future projected benefit payments. Additionally, the health care cost trend rate assumption is critical to Duke Energy's estimate of other post-retirement benefits.

Duke Energy elects to amortize net actuarial gain or loss amounts that are in excess of 10 percent of the greater of the market-related value of plan assets or the plan's projected benefit obligation, into net pension or other post-retirement benefit expense over the average remaining service period of active participants expected to benefit under the plan. If all or almost all of a plan's participants are inactive, the average remaining life expectancy of the inactive participants is used instead of average remaining service period. Prior service cost or credit, which represents an increase or decrease in a plan's pension benefit obligation resulting from plan amendment, is amortized on a straight-line basis over the average expected remaining service period of active participants expected to benefit under the plan. If all or almost all of a plan's participants are inactive, the average remaining life expectancy of the inactive participants is used instead of average remaining service period.

Duke Energy maintains and the Subsidiary Registrants participate in, qualified, non-contributory defined benefit retirement plans. Most participants in the qualified plans earn benefits calculated using a cash balance formula. Under a cash balance formula, a plan participant accumulates a retirement benefit consisting of pay credits based upon a percentage, which varies with age and years of service, of current eligible earnings and current interest credits. Certain plan participants earn benefits that use a final average earnings

PART II

formula. Certain executives are participants in non-qualified, non-contributory defined benefit retirement plans. These qualified and non-qualified, non-contributory defined benefit plans are closed to new participants.

Duke Energy provides some health care and life insurance benefits for retired employees on a contributory and non-contributory basis. Certain employees are eligible for these benefits if they have met age and service requirements at retirement, as defined in the plans.

Assets for Duke Energy's qualified pension and other post-retirement benefits (401(h) accounts) are maintained in the Duke Energy Master Retirement Trust (Master Trust). Duke Energy also invests other post-retirement assets in Voluntary Employees' Beneficiary Association trusts. The investment objective is to achieve sufficient returns, subject to a prudent level of portfolio risk, for the purpose of promoting the security of plan benefits for participants.

As of December 31, 2017, Duke Energy assumes pension and other post-retirement plan assets will generate a long-term rate of return of 6.50 percent. The expected long-term rate of return was developed using a weighted average calculation of expected returns based primarily on future expected returns across asset classes considering the use of active asset managers, where applicable. The asset allocation targets were set after considering the investment objective and the risk profile. Equity securities are held for their higher expected returns. Debt securities are primarily held to hedge the qualified pension liability. Hedge funds, real estate and other global securities are held for diversification. Investments within asset classes are diversified to achieve broad market participation and reduce the impact of individual managers on investments.

In 2013, Duke Energy adopted a de-risking investment strategy for the Master Trust. As the funded status of the pension plans increase, the

targeted allocation to fixed-income assets may be increased to better manage Duke Energy's pension liability and reduce funded status volatility. The asset allocation for the Master Trust is 63 percent fixed-income assets and 37 percent return-seeking assets. Duke Energy regularly reviews its actual asset allocation and periodically rebalances its investments to the targeted allocations when considered appropriate.

Duke Energy discounted its future U.S. pension and other post-retirement obligations using a rate of 3.6 percent as of December 31, 2017. Discount rates used to measure benefit plan obligations for financial reporting purposes reflect rates at which pension benefits could be effectively settled. As of December 31, 2017, Duke Energy determined its discount rate for U.S. pension and other post-retirement obligations using a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

Future changes in plan asset returns, assumed discount rates and various other factors related to the participants in Duke Energy's pension and post-retirement plans will impact future pension expense and liabilities. Duke Energy cannot predict with certainty what these factors will be in the future. The following table presents the approximate effect on Duke Energy's 2017 pretax pension expense, pretax other post-retirement expense, pension obligation and other post-retirement benefit obligation if a 0.25 percent change in rates were to occur.

(in millions)	Qualified and Non-Qualified Pension Plans		Other Post-Retirement Plans	
	0.25%	(0.25)%	0.25%	(0.25)%
Effect on 2017 pretax pension and other post-retirement expense				
Expected long-term rate of return	\$ (21)	\$ 21	\$ (1)	\$ 1
Discount rate	(17)	19	(1)	1
Effect on pension and other post-retirement benefit obligation at December 31, 2017				
Discount rate	(223)	229	(17)	17

Duke Energy's other post-retirement plan uses a health care trend rate covering both pre- and post-age 65 retired plan participants, which is comprised of a medical care trend rate, which reflects the near- and long-term expectation of increases in medical costs, and a prescription drug trend rate, which reflects the near- and long-term expectation of increases in prescription drug costs. As of December 31, 2017, the health care trend rate was 7 percent, trending down to 4.75 percent by 2024. The following table presents the approximate effect on Duke Energy's 2017 pretax other post-retirement expense and other post-retirement benefit obligation if a 1 percentage point change in the health care trend rate were to occur. These plans are closed to new hires.

(in millions)	Other Post-Retirement Plans	
	1%	(1)%
Effect on 2017 other post-retirement expense	\$ 5	\$ (4)
Effect on other post-retirement benefit obligation at December 31, 2017	27	(24)

For further information, see Note 21 to the Consolidated Financial Statements, "Employee Benefit Plans."

Income Taxes

Duke Energy and its subsidiaries file a consolidated federal income tax return and other state returns. The Subsidiary Registrants entered into a tax-sharing agreement with Duke Energy. Income taxes recorded represent amounts the Subsidiary Registrants would incur as separate C-Corporations. Deferred income taxes have been provided for temporary differences between GAAP and tax bases of assets and liabilities because the differences create taxable or tax-deductible amounts for future periods. ITCs associated with regulated operations are deferred and amortized as a reduction of income tax expense over the estimated useful lives of the related properties.

Accumulated deferred income taxes are valued using the enacted tax rate expected to apply to taxable income in the periods in which the deferred tax

asset or liability is expected to be settled or realized. In the event of a change in tax rates, deferred tax assets and liabilities are remeasured as of the enactment date of the new rate. To the extent that the change in the value of the deferred tax represents an obligation to customers, the impact of the remeasurement is deferred to a regulatory liability. Remaining impacts are recorded in income from continuing operations. Other impacts of the Tax Act have been recorded on a provisional basis, see Note 22, "Income Taxes," for additional information. If Duke Energy's estimate of the tax effect of reversing temporary differences is not reflective of actual outcomes, is modified to reflect new developments or interpretations of the tax law, revised to incorporate new accounting principles, or changes in the expected timing or manner of the reversal then Duke Energy's results of operations could be impacted.

PART II

LIQUIDITY AND CAPITAL RESOURCES

Sources and Uses of Cash

Duke Energy relies primarily upon cash flows from operations, debt and equity issuances and its existing cash and cash equivalents to fund its liquidity and capital requirements. Duke Energy's capital requirements arise primarily from capital and investment expenditures, repaying long-term debt and paying dividends to shareholders. Duke Energy's projected primary sources and uses for the next three fiscal years are included in the table below.

(in millions)	2018	2019	2020
Uses:			
Capital expenditures	\$ 10,950	\$ 10,975	\$ 9,050
Debt maturities and reduction in short-term debt ^(a)	3,135	3,500	2,850
Dividend payments ^(b)	2,575	2,750	2,875
Sources:			
Net cash flows from operations	\$ 7,945	\$ 9,150	\$ 9,390
Debt issuances and increase in short-term debt ^(c)	6,000	7,100	3,050
Equity issuances ^(d)	2,000	350	350

(a) Excludes capital leases. Duke Energy projects a reduction in short-term debt in 2020.

(b) Subject to approval by the Board of Directors.

(c) Duke Energy projects an increase in short-term debt in 2018 and 2019.

(d) 2018 equity issuances to be achieved through a public offering and through issuances under the Equity Distribution Agreement and the Dividend Reinvestment Program (DRIP). See Note 18 to the Consolidated Financial Statements, "Common Stock" for additional information.

Among other provisions, the Tax Act lowers the corporate federal income tax rate from 35 percent to 21 percent and eliminates bonus depreciation for regulated utilities. For Duke Energy's regulated operations, the reduction in federal income taxes is expected to result in lower regulated customer rates. However, due to its existing NOL (Net operating loss) position and other tax credits, Duke Energy does not expect to be a significant federal cash tax payer through at least 2022. As a result, any reduction in customer rates could cause a material reduction in consolidated cash flows from operations in the short-term. Over time, the reduction in deferred tax liabilities resulting from the Tax Act will increase Duke Energy's regulated rate base investments and customer rates. See the Credit Ratings section below for additional information on the impact of the Tax Act on the Duke Energy Registrants' credit ratings. Impacts of Tax Act to Duke Energy's cash flows and credit metrics are subject to the regulatory actions of its state commissions and the FERC, which are currently pending. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

In order to strengthen its balance sheet and credit metrics and bolster cash flows, Duke Energy plans to issue \$2 billion of common stock equity during 2018, including its previous plan to issue \$350 million annually through its DRIP beginning in 2018, as well as reduce its capital expenditures during 2018-2022 by approximately \$1 billion.

The Subsidiary Registrants generally maintain minimal cash balances and use short-term borrowings to meet their working capital needs and other cash requirements. The Subsidiary Registrants, excluding Progress Energy, support their short-term borrowing needs through participation with Duke Energy and certain of its other subsidiaries in a money pool arrangement. The companies with short-term funds may provide short-term loans to affiliates participating under this arrangement. See Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities," for additional discussion of the money pool arrangement.

Duke Energy and the Subsidiary Registrants, excluding Progress Energy, may also use short-term debt, including commercial paper and the money pool, as a bridge to long-term debt financings. The levels of borrowing may vary significantly over the course of the year due to the timing of long-term debt financings and the impact of fluctuations in cash flows from operations. From time to time, Duke Energy's current liabilities exceed current assets

resulting from the use of short-term debt as a funding source to meet scheduled maturities of long-term debt, as well as cash needs, which can fluctuate due to the seasonality of its businesses.

Credit Facilities and Registration Statements

See Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities," for further information regarding credit facilities and shelf registration statements available to Duke Energy and the Duke Energy Registrants.

CAPITAL EXPENDITURES

Duke Energy continues to focus on reducing risk and positioning its business for future success and will invest principally in its strongest business sectors. Duke Energy's projected capital and investment expenditures for the next three fiscal years are included in the table below.

(in millions)	2018	2019	2020
New generation	\$ 780	\$ 260	\$ 135
Regulated renewables	155	415	365
Environmental	610	35	30
Nuclear fuel	500	410	455
Major nuclear	390	335	230
Customer additions	490	485	515
Grid modernization and other transmission and distribution projects	2,585	3,515	3,415
Maintenance and other	2,665	2,445	2,230
Total Electric Utilities and Infrastructure	8,175	7,900	7,375
Gas Utilities and Infrastructure	2,350	2,275	950
Commercial Renewables and Other	425	800	725
Total projected capital and investment expenditures	\$ 10,950	\$ 10,975	\$ 9,050

DEBT MATURITIES

See Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities," for further information regarding significant components of Current Maturities of Long-Term Debt on the Consolidated Balance Sheets.

DIVIDEND PAYMENTS

In 2017, Duke Energy paid quarterly cash dividends for the 91st consecutive year and expects to continue its policy of paying regular cash dividends in the future. There is no assurance as to the amount of future dividends because they depend on future earnings, capital requirements, financial condition and are subject to the discretion of the Board of Directors.

Duke Energy targets a dividend payout ratio of between 70 percent and 75 percent, based upon adjusted diluted EPS. In 2016 and 2017, Duke Energy increased the dividend by approximately 4 percent annually. Through 2022, the annual dividend growth rate is expected to be between approximately 4 to 6 percent.

Dividend and Other Funding Restrictions of Duke Energy Subsidiaries

As discussed in Note 4 to the Consolidated Financial Statements, "Regulatory Matters," Duke Energy's wholly owned public utility operating companies have restrictions on the amount of funds that can be transferred to Duke Energy through dividends, advances or loans as a result of conditions imposed by various regulators in conjunction with merger transactions. Duke Energy Progress and Duke Energy Florida also have restrictions imposed by their first mortgage bond indentures and Articles of Incorporation, which, in certain circumstances, limit their ability to make cash dividends or distributions

PART II

on common stock. Additionally, certain other Duke Energy subsidiaries have other restrictions, such as minimum working capital and tangible net worth requirements pursuant to debt and other agreements that limit the amount of funds that can be transferred to Duke Energy. At December 31, 2017, the amount of restricted net assets of wholly owned subsidiaries of Duke Energy that may not be distributed to Duke Energy in the form of a loan or dividend is less than 25 percent of Duke Energy's net assets. Duke Energy does not have any legal or other restrictions on paying common stock dividends to shareholders out of its consolidated equity accounts. Although these restrictions cap the amount of funding the various operating subsidiaries can provide to Duke Energy, management does not believe these restrictions will have a significant impact on Duke Energy's ability to access cash to meet its payment of dividends on common stock and other future funding obligations.

CASH FLOWS FROM OPERATING ACTIVITIES

Cash flows from operations of Electric Utilities and Infrastructure and Gas Utilities and Infrastructure are primarily driven by sales of electricity and natural gas, respectively, and costs of operations. These cash flows from operations are relatively stable and comprise a substantial portion of Duke Energy's operating cash flows. Weather conditions, working capital and commodity price fluctuations and unanticipated expenses including unplanned plant outages, storms, legal costs and related settlements can affect the timing and level of cash flows from operations.

Duke Energy believes it has sufficient liquidity resources through the commercial paper markets, and ultimately, the Master Credit Facility, to support these operations. Cash flows from operations are subject to a number of other factors, including, but not limited to, regulatory constraints, economic trends and market volatility (see Item 1A, "Risk Factors," for additional information).

At December 31, 2017, Duke Energy had cash and cash equivalents and short-term investments of \$358 million.

DEBT ISSUANCES

Depending on availability based on the issuing entity, the credit rating of the issuing entity, and market conditions, the Subsidiary Registrants prefer to issue first mortgage bonds and secured debt, followed by unsecured debt. This preference is the result of generally higher credit ratings for first mortgage bonds and secured debt, which typically result in lower interest costs. Duke Energy Corporation primarily issues unsecured debt.

See to Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities," for further information regarding significant debt issuances.

Duke Energy's capitalization is balanced between debt and equity as shown in the table below.

	Projected 2018	Actual 2017	Actual 2016
Equity	44%	43%	45%
Debt	56%	57%	55%

Duke Energy's fixed charges coverage ratio, calculated using Securities and Exchange Commission (SEC) guidelines, was 2.9 times for 2017, 2.7 times for 2016 and 3.1 times for 2015.

Restrictive Debt Covenants

Duke Energy's debt and credit agreements contain various financial and other covenants. Duke Energy's Master Credit Facility contains a covenant requiring the debt-to-total capitalization ratio to not exceed 65 percent for each borrower, excluding Piedmont, and 70 percent for Piedmont. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements or sublimities thereto. As of December 31, 2017, each of the Duke Energy Registrants was in compliance with all covenants related to their debt agreements. In addition, some credit agreements may allow for acceleration of payments or termination of the agreements due to nonpayment, or acceleration of other significant indebtedness of the borrower or some of its subsidiaries. None of the debt or credit agreements contain material adverse change clauses.

Credit Ratings

Moody's Investors Service, Inc. (Moody's), Standard & Poor's Rating Services (S&P) and Fitch Ratings, Inc. provide credit ratings for various Duke Energy Registrants. The following table includes Duke Energy and certain subsidiaries' credit ratings and ratings outlook as of February 2018.

	Moody's	S&P	Fitch
Duke Energy Corporation	Negative ^(a)	Stable	Negative
Issuer Credit Rating	Baa1	A-	BBB+
Senior Unsecured Debt	Baa1	BBB+	BBB+
Commercial Paper	P-2	A-2	F-2
Duke Energy Carolinas	Stable	Stable	N/A
Senior Secured Debt	Aa2	A	N/A
Senior Unsecured Debt	A1	A-	N/A
Progress Energy	Stable	Stable	N/A
Senior Unsecured Debt	Baa2	BBB+	N/A
Duke Energy Progress	Stable	Stable	N/A
Senior Secured Debt	Aa3	A	N/A
Duke Energy Florida	Stable	Stable	N/A
Senior Secured Debt	A1	A	N/A
Senior Unsecured Debt	A3	A-	N/A
Duke Energy Ohio	Positive	Stable	N/A
Senior Secured Debt	A2	A	N/A
Senior Unsecured Debt	Baa1	A-	N/A
Duke Energy Indiana	Stable	Stable	N/A
Senior Secured Debt	Aa3	A	N/A
Senior Unsecured Debt	A2	A-	N/A
Duke Energy Kentucky	Stable	Stable	N/A
Senior Unsecured Debt	Baa1	A-	N/A
Piedmont Natural Gas	Negative ^(a)	Stable	N/A
Senior Unsecured	A2	A-	N/A

(a) In January 2018, Moody's revised the ratings outlook for Duke Energy Corporation and Piedmont from stable to negative, principally due to risk of deterioration in credit metrics resulting from the Tax Act. See the Tax Cuts and Jobs Act section above for additional information on the Tax Act.

Credit ratings are intended to provide credit lenders a framework for comparing the credit quality of securities and are not a recommendation to buy, sell or hold. The Duke Energy Registrants' credit ratings are dependent on the rating agencies' assessments of their ability to meet their debt principal and interest obligations when they come due. If, as a result of market conditions or other factors, the Duke Energy Registrants are unable to maintain current balance sheet strength, or if earnings and cash flow outlook materially deteriorates, credit ratings could be negatively impacted.

Cash Flow Information

The following table summarizes Duke Energy's cash flows for the three most recently completed fiscal years.

	Years Ended December 31,		
(in millions)	2017	2016	2015
Cash flows provided by (used in):			
Operating activities	\$ 6,634	\$ 6,817	\$ 6,700
Investing activities	(8,450)	(11,533)	(5,277)
Financing activities	1,782	4,251	(2,602)
Changes in cash and cash equivalents			
included in assets held for sale	—	474	1,099
Net (decrease) increase in cash and cash equivalents	(34)	9	(80)
Cash and cash equivalents at beginning of period	392	383	463
Cash and cash equivalents at end of period	\$ 358	\$ 392	\$ 383

PART II

OPERATING CASH FLOWS

The following table summarizes key components of Duke Energy's operating cash flows for the three most recently completed fiscal years.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Net income	\$ 3,064	\$ 2,170	\$ 2,831
Non-cash adjustments to net income	5,380	5,305	4,800
Contributions to qualified pension plans	(19)	(155)	(302)
Payments for AROs	(571)	(608)	(346)
Working capital	(1,220)	105	(283)
Net cash provided by operating activities	\$ 6,634	\$ 6,817	\$ 6,700

For the year ended December 31, 2017, compared to 2016, the variance was driven primarily by:

- a \$1,325 million decrease in working capital due to weather, payment of merger transaction and integration related costs and increased property tax payments in 2017.

Offset by:

- a \$969 million increase in net income after non-cash adjustments primarily due to the inclusion of Piedmont's earnings for a full year, favorable pricing and weather-normal retail volumes driven by the residential class in the Electric Utilities and Infrastructure Segment combined with continued strong cost control;
- a \$136 million decrease in contributions to qualified pension plans; and
- a \$37 million decrease in payments to AROs.

For the year ended December 31, 2016, compared to 2015, the variance was driven primarily by:

- a \$388 million increase in cash flows from working capital primarily due to the sale of the International business; and
- a \$147 million decrease in contributions to qualified pension plans.

Offset by:

- a \$262 million increase in payments for AROs; and
- a \$156 million decrease in net income after non-cash adjustments due to higher storm costs offset by favorable weather, increased rider revenues, higher wholesale margins and strong cost control.

INVESTING CASH FLOWS

The following table summarizes key components of Duke Energy's investing cash flows for the three most recently completed fiscal years.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Capital, investment and acquisition expenditures	\$ (8,198)	\$ (13,215)	\$ (8,363)
Available for sale securities, net	27	83	3
Net proceeds from the sales of discontinued operations and other assets, net of cash divested	—	1,418	2,968
Other investing items	(279)	181	115
Net cash used in investing activities	\$ (8,450)	\$ (11,533)	\$ (5,277)

The primary use of cash related to investing activities is capital, investment and acquisition expenditures, detailed by reportable business segment in the following table.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Electric Utilities and Infrastructure	\$ 7,024	\$ 6,649	\$ 6,852
Gas Utilities and Infrastructure	907	5,519	234
Commercial Renewables	92	857	1,019
Other	175	190	258
Total capital, investment and acquisition expenditures	\$ 8,198	\$ 13,215	\$ 8,363

For the year ended December 31, 2017, compared to 2016, the variance was driven primarily by:

- a \$5,017 million decrease in capital, investment and acquisition expenditures mainly due to the Piedmont acquisition in the prior year.

Partially offset by:

- a \$1,418 million decrease in net proceeds from sales of discontinued operations due to the prior year sale of the International business.

For the year ended December 31, 2016, compared to 2015, the variance was driven primarily by:

- a \$4,852 million increase in capital, investment and acquisition expenditures mainly due to the Piedmont acquisition; and
- a \$1,550 million decrease in net proceeds from sales of discontinued operations mainly due to the variance in proceeds between the 2015 sale of the Midwest generation business and the 2016 sale of the International business.

FINANCING CASH FLOWS

The following table summarizes key components of Duke Energy's financing cash flows for the three most recently completed fiscal years.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Issuance of common stock	\$ —	\$ 731	\$ 17
Issuances (Repayments) of long-term debt, net	4,593	7,315	(74)
Notes payable and commercial paper	(362)	(1,447)	1,245
Dividends paid	(2,450)	(2,332)	(2,254)
Repurchase of common shares	—	—	(1,500)
Other financing items	1	(16)	(36)
Net cash provided by (used in) financing activities	\$ 1,782	\$ 4,251	\$ (2,602)

For the year ended December 31, 2017, compared to 2016, the variance was driven primarily by:

- a \$2,722 million net decrease in proceeds from issuances of long-term debt driven principally by the prior year \$3,750 million of senior unsecured notes used to fund a portion of the Piedmont acquisition, offset primarily by \$900 million of first mortgage bonds issued by Duke Energy Florida in the current year to fund capital expenditures for ongoing construction and capital maintenance and for general corporate purposes;
- a \$731 million decrease in proceeds from stock issuances used to fund a portion of the Piedmont acquisition in 2016; and
- a \$118 million current year increase in dividends paid.

PART II

Partially offset by:

- a \$1,085 million decrease in net borrowings from notes payable and commercial paper primarily due to the use of proceeds from \$1,294 million nuclear asset-recovery bonds issued at Duke Energy Florida in 2016 to pay down outstanding commercial paper.

For the year ended December 31, 2016, compared to 2015, the variance was driven primarily by:

- a \$7,389 million increase in proceeds from net issuances of long-term debt mainly due to the issuances of \$3,750 million of senior unsecured notes used to fund a portion of the Piedmont acquisition, \$1,294 million of nuclear asset-recovery bonds and other issuances primarily used to fund capital expenditures, pay down outstanding commercial paper and repay debt maturities;

- a \$1,500 million decrease in cash outflows due to the 2015 repurchase of 19.8 million common shares under the ASR; and
- a \$714 million increase in proceeds resulting from the issuance of common stock to fund the acquisition of Piedmont.

Partially offset by:

- a \$2,692 million increase in cash outflows for the net payments of notes payable and commercial paper primarily through the use of proceeds from \$1,294 million nuclear asset-recovery bonds issued at Duke Energy Florida, further increased by the use of short-term debt in 2015 to repay long-term debt maturities at Duke Energy Florida in advance of the 2016 proceeds from the nuclear asset-recovery bonds.

Off-Balance Sheet Arrangements

Duke Energy and certain of its subsidiaries enter into guarantee arrangements in the normal course of business to facilitate commercial transactions with third parties. These arrangements include performance guarantees, stand-by letters of credit, debt guarantees, surety bonds and indemnifications.

Most of the guarantee arrangements entered into by Duke Energy enhance the credit standing of certain subsidiaries, non-consolidated entities or less than wholly owned entities, enabling them to conduct business. As such, these guarantee arrangements involve elements of performance and credit risk, which are not always included on the Consolidated Balance Sheets. The possibility of Duke Energy, either on its own or on behalf of Spectra Energy Capital, LLC (Spectra Capital) through indemnification agreements entered into as part of the January 2, 2007, spin-off of Spectra Energy Corp, having to honor its contingencies is largely dependent upon the future operations of the subsidiaries, investees and other third parties, or the occurrence of certain future events.

Duke Energy performs ongoing assessments of its respective guarantee obligations to determine whether any liabilities have been incurred as a result of potential increased non-performance risk by third parties for which Duke Energy has issued guarantees.

See Note 7 to the Consolidated Financial Statements, "Guarantees and Indemnifications," for further details of the guarantee arrangements.

Issuance of these guarantee arrangements is not required for the majority of Duke Energy's operations. Thus, if Duke Energy discontinued issuing these guarantees, there would not be a material impact to the consolidated results of operations, cash flows or financial position.

Other than the guarantee arrangements discussed above, normal operating lease arrangements and off-balance sheet debt related to non-consolidated VIEs, Duke Energy does not have any material off-balance sheet financing entities or structures. For additional information, see Notes 5, 7 and 17 to the Consolidated Financial Statements, "Commitments and Contingencies," "Guarantees and Indemnifications" and "Variable Interest Entities," respectively.

Contractual Obligations

Duke Energy enters into contracts that require payment of cash at certain specified periods, based on certain specified minimum quantities and prices. The following table summarizes Duke Energy's contractual cash obligations as of December 31, 2017.

(in millions)	Total	Payments Due By Period			
		Less than 1 year (2018)	2-3 years (2019 & 2020)	4-5 years (2021 & 2022)	More than 5 years (2023 & beyond)
Long-term debt ^(a)	\$ 49,962	\$ 3,127	\$ 7,062	\$ 6,541	\$ 33,232
Interest payments on long-term debt ^(b)	30,943	2,014	3,590	3,144	22,195
Capital leases ^(c)	1,601	168	343	345	745
Operating leases ^(c)	1,786	233	386	285	882
Purchase obligations: ^(d)					
Fuel and purchased power ^{(e)(f)}	30,956	4,506	6,085	4,474	15,891
Other purchase obligations ^(g)	8,726	6,642	1,406	121	557
Nuclear decommissioning trust annual funding ^(h)	285	14	28	28	215
Total contractual cash obligations^{(a)(i)}	\$ 124,259	\$ 16,704	\$ 18,900	\$ 14,938	\$ 73,717

(a) See Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities."

(b) Interest payments on variable rate debt instruments were calculated using December 31, 2017, interest rates and holding them constant for the life of the instruments.

(c) See Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies." Amounts in the table above include the interest component of capital leases based on the interest rates stated in the lease agreements and exclude certain related executory costs. Amounts exclude contingent lease obligations.

(d) Current liabilities, except for current maturities of long-term debt, and purchase obligations reflected on the Consolidated Balance Sheets have been excluded from the above table.

(e) Includes firm capacity payments that provide Duke Energy with uninterrupted firm access to electricity transmission capacity and natural gas transportation contracts, as well as undesignated contracts and contracts that qualify as normal purchase/normal sale (NPNS). For contracts where the price paid is based on an index, the amount is based on market prices at December 31, 2017, or the best projections of the index. For certain of these amounts, Duke Energy may settle on a net cash basis since Duke Energy has entered into payment netting arrangements with counterparties that permit Duke Energy to offset receivables and payables with such counterparties.

(f) Amounts exclude obligations under the OVEC purchase power agreement. See Note 17 to the Consolidated Financial Statements, "Variable Interest Entities," for additional information.

PART II

- (g) Includes contracts for software, telephone, data and consulting or advisory services. Amount also includes contractual obligations for engineering, procurement and construction costs for new generation plants, wind and solar facilities, plant refurbishments, maintenance and day-to-day contract work and commitments to buy certain products. Amount excludes certain open purchase orders for services that are provided on demand, for which the timing of the purchase cannot be determined.
- (h) Related to future annual funding obligations to NDTF through nuclear power stations' relicensing dates. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations."
- (i) Unrecognized tax benefits of \$25 million are not reflected in this table as Duke Energy cannot predict when open income tax years will close with completed examinations. See Note 22 to the Consolidated Financial Statements, "Income Taxes."
- (j) The table above excludes reserves for litigation, environmental remediation, asbestos-related injuries and damages claims and self-insurance claims (see Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies") because Duke Energy is uncertain as to the timing and amount of cash payments that will be required. Additionally, the table above excludes annual insurance premiums that are necessary to operate the business, including nuclear insurance (see Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies"), funding of pension and other post-retirement benefit plans (see Note 21 to the Consolidated Financial Statements, "Employee Benefit Plans"), AROs, including ash management expenditures (see Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations") and regulatory liabilities (see Note 4 to the Consolidated Financial Statements, "Regulatory Matters") because the amount and timing of the cash payments are uncertain. Also excluded are Deferred Income Taxes and ITCs recorded on the Consolidated Balance Sheets since cash payments for income taxes are determined based primarily on taxable income for each discrete fiscal year.

QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Risk Management Policies

The Enterprise Risk Management policy framework at Duke Energy includes strategy, operational, project execution and financial or transaction related risks. Enterprise Risk Management includes market risk as part of the financial and transaction related risks in its framework.

Duke Energy is exposed to market risks associated with commodity prices, interest rates and equity prices. Duke Energy has established comprehensive risk management policies to monitor and manage these market risks. Duke Energy's Chief Executive Officer and Chief Financial Officer are responsible for the overall approval of market risk management policies and the delegation of approval and authorization levels. The Finance and Risk Management Committee of the Board of Directors receives periodic updates from the Chief Risk Officer and other members of management on market risk positions, corporate exposures and overall risk management activities. The Chief Risk Officer is responsible for the overall governance of managing commodity price risk, including monitoring exposure limits.

The following disclosures about market risk contain forward-looking statements that involve estimates, projections, goals, forecasts, assumptions, risks and uncertainties that could cause actual results or outcomes to differ materially from those expressed in the forward-looking statements. Please review Item 1A, "Risk Factors," and "Cautionary Statement Regarding Forward-Looking Information" for a discussion of the factors that may impact any such forward-looking statements made herein.

Commodity Price Risk

Duke Energy is exposed to the impact of market fluctuations in the prices of electricity, coal, natural gas and other energy-related products marketed and purchased as a result of its ownership of energy-related assets. Duke Energy's exposure to these fluctuations is limited by the cost-based regulation of its regulated operations as these operations are typically allowed to recover substantially all of these costs through various cost-recovery clauses, including fuel clauses, formula based contracts, or other cost-sharing mechanisms. While there may be a delay in timing between when these costs are incurred and when they are recovered through rates, changes from year to year generally do not have a material impact on operating results of these regulated operations.

Price risk represents the potential risk of loss from adverse changes in the market price of electricity or other energy commodities. Duke Energy's exposure to commodity price risk is influenced by a number of factors, including contract size, length, market liquidity, location and unique or specific contract terms. Duke Energy employs established policies and procedures to manage risks associated with these market fluctuations, which may include using various commodity derivatives, such as swaps, futures, forwards and options. For additional information, see Note 14 to the Consolidated Financial Statements, "Derivatives and Hedging."

The inputs and methodologies used to determine the fair value of contracts are validated by an internal group separate from Duke Energy's deal origination function. While Duke Energy uses common industry practices to develop its valuation techniques, changes in its pricing methodologies or the

underlying assumptions could result in significantly different fair values and income recognition.

Hedging Strategies

Duke Energy closely monitors risks associated with commodity price changes on its future operations and, where appropriate, uses various commodity instruments such as electricity, coal and natural gas forward contracts and options to mitigate the effect of such fluctuations on operations. Duke Energy's primary use of energy commodity derivatives is to hedge against exposure to the prices of power, fuel for generation and natural gas for customers.

The majority of instruments used to manage Duke Energy's commodity price exposure are either not designated as hedges or do not qualify for hedge accounting. These instruments are referred to as undesignated contracts. Mark-to-market changes for undesignated contracts entered into by regulated businesses are reflected as regulatory assets or liabilities on the Consolidated Balance Sheets. Undesignated contracts entered into by unregulated businesses are marked-to-market each period, with changes in the fair value of the derivative instruments reflected in earnings.

Duke Energy may also enter into other contracts that qualify for the NPNS exception. When a contract meets the criteria to qualify as NPNS, Duke Energy applies such exception. Income recognition and realization related to NPNS contracts generally coincide with the physical delivery of the commodity. For contracts qualifying for the NPNS exception, no recognition of the contract's fair value in the Consolidated Financial Statements is required until settlement of the contract as long as the transaction remains probable of occurring.

Generation Portfolio Risks

The Duke Energy Registrants optimize the value of their generation portfolios, which include generation assets, fuel and emission allowances. Modeled forecasts of future generation output and fuel requirements are based on forward power and fuel markets. The component pieces of the portfolio are bought and sold based on models and forecasts of generation in order to manage the economic value of the portfolio in accordance with the strategies of the business units.

For the Electric Utilities segment, the generation portfolio not utilized to serve retail operations or committed load is subject to commodity price fluctuations. However, the impact on the Consolidated Statements of Operations is partially offset by mechanisms in these regulated jurisdictions that result in the sharing of net profits from these activities with retail customers.

Interest Rate Risk

Duke Energy is exposed to risk resulting from changes in interest rates as a result of its issuance of variable and fixed-rate debt and commercial paper. Duke Energy manages interest rate exposure by limiting variable-rate exposures to a percentage of total debt and by monitoring the effects of market changes in interest rates. Duke Energy also enters into financial derivative instruments, which may include instruments such as, but not limited to, interest rate swaps, swaptions and U.S. Treasury lock agreements to manage and mitigate interest rate risk exposure. See Notes 1, 6, 14 and 16 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies," "Debt and Credit Facilities," "Derivatives and Hedging," and "Fair Value Measurements."

PART II

At December 31, 2017, Duke Energy had \$687 million notional amount of floating-to-fixed swaps outstanding, \$500 million notional amount of fixed-to-floating swaps outstanding and \$400 million forward-starting swaps outstanding. Duke Energy had \$6.1 billion of unhedged long- and short-term floating interest rate exposure at December 31, 2017. The impact of a 100 basis point change in interest rates on pretax income is approximately \$61 million at December 31, 2017. This amount was estimated by considering the impact of the hypothetical interest rates on variable-rate securities outstanding, adjusted for interest rate hedges as of December 31, 2017.

See Note 14, "Derivatives and Hedging," to the Consolidated Financial Statements for additional information about the forward-starting interest rate swaps related to the Piedmont acquisition.

Credit Risk

Credit risk represents the loss that the Duke Energy Registrants would incur if a counterparty fails to perform under its contractual obligations. Where exposed to credit risk, the Duke Energy Registrants analyze the counterparty's financial condition prior to entering into an agreement and monitor exposure on an ongoing basis. The Duke Energy Registrants establish credit limits where appropriate in the context of contractual arrangements and monitor such limits.

To reduce credit exposure, the Duke Energy Registrants seek to include netting provisions with counterparties, which permit the offset of receivables and payables with such counterparties. The Duke Energy Registrants also frequently use master agreements with credit support annexes to further mitigate certain credit exposures. The master agreements provide for a counterparty to post cash or letters of credit to the exposed party for exposure in excess of an established threshold. The threshold amount represents a negotiated unsecured credit limit for each party to the agreement, determined in accordance with the Duke Energy Registrants' internal corporate credit practices and standards. Collateral agreements generally also provide that the inability to post collateral is sufficient cause to terminate contracts and liquidate all positions.

The Duke Energy Registrants also obtain cash or letters of credit from certain counterparties to provide credit support outside of collateral agreements, where appropriate, based on a financial analysis of the counterparty and the regulatory or contractual terms and conditions applicable to each transaction. See Note 14 to the Consolidated Financial Statements, "Derivatives and Hedging," for additional information regarding credit risk related to derivative instruments.

The Duke Energy Registrants' principal counterparties for its electric and natural gas businesses are regional transmission organizations, distribution companies, municipalities, electric cooperatives and utilities located throughout the U.S. The Duke Energy Registrants have concentrations of receivables from such entities throughout these regions. These concentrations of receivables may affect the Duke Energy Registrants' overall credit risk in that risk factors can negatively impact the credit quality of the entire sector.

The Duke Energy Registrants are also subject to credit risk from transactions with their suppliers that involve prepayments in conjunction with outsourcing arrangements, major construction projects and certain commodity purchases. The Duke Energy Registrants' credit exposure to such suppliers may take the form of increased costs or project delays in the event of non-performance. The Duke Energy Registrants' frequently require guarantees or letters of credit from suppliers to mitigate this credit risk.

Credit risk associated with the Duke Energy Registrants' service to residential, commercial and industrial customers is generally limited to outstanding accounts receivable. The Duke Energy Registrants mitigate this credit risk by requiring customers to provide a cash deposit, letter of credit or surety bond until a satisfactory payment history is established, subject to the rules and regulations in effect in each retail jurisdiction, at which time the deposit is typically refunded. Charge-offs for retail customers have historically been insignificant to the operations of the Duke Energy Registrants and are typically recovered through retail rates. Management continually monitors customer charge-offs and payment patterns to ensure the adequacy of bad debt reserves. Duke Energy Ohio and Duke Energy Indiana sell certain of their

accounts receivable and related collections through Cinergy Receivables Company LLC (CRC), a Duke Energy consolidated variable interest entity. Losses on collection are first absorbed by the equity of CRC and next by the subordinated retained interests held by Duke Energy Ohio, Duke Energy Kentucky and Duke Energy Indiana. See Note 17 to the Consolidated Financial Statements, "Variable Interest Entities."

Duke Energy Carolinas has third-party insurance to cover certain losses related to asbestos-related injuries and damages above an aggregate self-insured retention. Duke Energy Carolinas' cumulative payments began to exceed the self-insurance retention in 2008. Future payments up to the policy limit will be reimbursed by the third-party insurance carrier. The insurance policy limit for potential future insurance recoveries indemnification and medical cost claim payments is \$797 million in excess of the self-insured retention. Receivables for insurance recoveries were \$489 million and \$587 million at December 31, 2017, and 2016, respectively. These amounts are classified in Other within Other Noncurrent Assets on the Consolidated Balance Sheets. Duke Energy Carolinas is not aware of any uncertainties regarding the legal sufficiency of insurance claims. Duke Energy Carolinas believes the insurance recovery asset is probable of recovery as the insurance carrier continues to have a strong financial strength rating.

The Duke Energy Registrants also have credit risk exposure through issuance of performance and financial guarantees, letters of credit and surety bonds on behalf of less than wholly owned entities and third parties. Where the Duke Energy Registrants have issued these guarantees, it is possible that they could be required to perform under these guarantee obligations in the event the obligor under the guarantee fails to perform. Where the Duke Energy Registrants have issued guarantees related to assets or operations that have been disposed of via sale, they attempt to secure indemnification from the buyer against all future performance obligations under the guarantees. See Note 7 to the Consolidated Financial Statements, "Guarantees and Indemnifications," for further information on guarantees issued by the Duke Energy Registrants.

Based on the Duke Energy Registrants' policies for managing credit risk, their exposures and their credit and other reserves, the Duke Energy Registrants do not currently anticipate a materially adverse effect on their consolidated financial position or results of operations as a result of non-performance by any counterparty.

Marketable Securities Price Risk

As described further in Note 15 to the Consolidated Financial Statements, "Investments in Debt and Equity Securities," Duke Energy invests in debt and equity securities as part of various investment portfolios to fund certain obligations. The vast majority of investments in equity securities are within the NDTF and assets of the various pension and other post-retirement benefit plans.

Pension Plan Assets

Duke Energy maintains investments to facilitate funding the costs of providing non-contributory defined benefit retirement and other post-retirement benefit plans. These investments are exposed to price fluctuations in equity markets and changes in interest rates. The equity securities held in these pension plans are diversified to achieve broad market participation and reduce the impact of any single investment, sector or geographic region. Duke Energy has established asset allocation targets for its pension plan holdings, which take into consideration the investment objectives and the risk profile with respect to the trust in which the assets are held. See Note 21 to the Consolidated Financial Statements, "Employee Benefit Plans," for additional information regarding investment strategy of pension plan assets.

A significant decline in the value of plan asset holdings could require Duke Energy to increase funding of its pension plans in future periods, which could adversely affect cash flows in those periods. Additionally, a decline in the fair value of plan assets, absent additional cash contributions to the plan, could increase the amount of pension cost required to be recorded in future periods, which could adversely affect Duke Energy's results of operations in those periods.

PART II

Nuclear Decommissioning Trust Funds

As required by the NRC, NCUC, PSCSC and FPSC, subsidiaries of Duke Energy maintain trust funds to fund the costs of nuclear decommissioning. As of December 31, 2017, these funds were invested primarily in domestic and international equity securities, debt securities, cash and cash equivalents and short-term investments. Per the NRC, Internal Revenue Code, NCUC, PSCSC and FPSC requirements, these funds may be used only for activities related to nuclear decommissioning. These investments are exposed to price fluctuations in equity markets and changes in interest rates. Duke Energy actively monitors its portfolios by benchmarking the performance of its investments against certain indices and by maintaining, and periodically reviewing, target allocation percentages for various asset classes.

Accounting for nuclear decommissioning recognizes that costs are recovered through retail and wholesale rates; therefore, fluctuations in investment prices do not materially affect the Consolidated Statements of Operations, as changes in the fair value of these investments are primarily deferred as regulatory assets or regulatory liabilities pursuant to Orders by the NCUC, PSCSC, FPSC and FERC. Earnings or losses of the fund will ultimately impact the amount of costs recovered through retail and wholesale rates. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information regarding nuclear decommissioning costs. See Note 15 to the Consolidated Financial Statements, "Investments in Debt and Equity Securities," for additional information regarding NDTF assets.

OTHER MATTERS

Ratios of Earnings to Fixed Charges

The Duke Energy Registrants' ratios of earnings to fixed charges, as calculated using SEC guidelines, are included in the tables below.

	Years Ended December 31,		
	2017	2016	2015
Duke Energy	2.9	2.7	3.1
Duke Energy Carolinas	4.8	4.7	4.7
Progress Energy	2.7	3.0	2.9
Duke Energy Progress	4.1	4.0	3.7
Duke Energy Florida	3.3	4.3	4.3
Duke Energy Ohio	3.4	3.8	3.6
Duke Energy Indiana	4.4	4.1	3.6

	Year Ended	Two Months Ended	Years Ended October 31,	
	December 31, 2017	December 31, 2016	2016	2015
Piedmont	3.3	6.6	4.7	3.7

Environmental Regulations

The Duke Energy Registrants are subject to federal, state and local regulations regarding air and water quality, hazardous and solid waste disposal and other environmental matters. These regulations can be changed from time to time and result in new obligations of the Duke Energy Registrants.

The following sections outline various proposed and recently enacted legislation and regulations that may impact the Duke Energy Registrants. Refer to Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for further information regarding potential plant retirements and regulatory filings related to the Duke Energy Registrants.

Coal Combustion Residuals

In April 2015, EPA published a rule to regulate the disposal of CCR from electric utilities as solid waste. The federal regulation classifies CCR as nonhazardous waste and allows for beneficial use of CCR with some restrictions. The regulation applies to all new and existing landfills, new and existing surface impoundments receiving CCR and existing surface impoundments that are no longer receiving CCR but contain liquid located at stations currently generating electricity (regardless of fuel source). The rule establishes requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring, protection and remedial procedures and other operational and reporting procedures to ensure the safe disposal and management of CCR. Various industry and environmental parties have appealed EPA's CCR rule in the U.S. Court of Appeals for the District of Columbia (D.C. Circuit Court). On April 18, 2016, EPA filed a motion with the federal court to settle five issues raised in litigation. On June 14, 2016, the court approved the motion with respect to

all of those issues. Duke Energy does not expect a material impact from the settlement or that it will result in additional ARO adjustments. On September 13, 2017, EPA responded to a petition by the Utility Solid Waste Activities Group that the agency would reconsider certain provisions of the final rule, and asked the D.C. Circuit Court to suspend the litigation. The D.C. Circuit Court denied EPA's petition to suspend the litigation and oral argument was held on November 20, 2017. The court has not issued an order in the matter. Duke Energy cannot predict the outcome of the litigation.

In a November 15, 2017, status report filed with the D.C. Circuit Court, EPA listed the provisions it intends to reconsider, including provisions that warrant revision due to passage of the Water Infrastructure Improvements for the Nation Act, which allows for implementation of the CCR rule through state or federal permit programs. EPA has indicated it will issue a proposed rule in early 2018 that includes provisions from the June 2016 settlement with petitioners and additional provisions under reconsideration. The reconsideration would not repeal the CCR rule; rather, it would modify some requirements to align with the implementation of the rule through permit programs. At this time, Duke Energy does not expect a reconsideration rulemaking to have a material impact on its coal ash basin closure plans or compliance requirements under the CCR rule.

In addition to the requirements of the federal CCR regulation, CCR landfills and surface impoundments will continue to be independently regulated by most states. Cost recovery for future expenditures will be pursued through the normal ratemaking process with federal and state utility commissions and via wholesale contracts, which permit recovery of necessary and prudently incurred costs associated with Duke Energy's regulated operations. For more information, see Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations."

PART II

Coal Ash Management Act of 2014

AROs recorded on the Duke Energy Carolinas and Duke Energy Progress Consolidated Balance Sheets at December 31, 2017, and December 31, 2016, include the legal obligation for closure of coal ash basins and the disposal of related ash as a result of the Coal Ash Act, the EPA CCR rule and other agreements. The Coal Ash Act requires Duke Energy to undertake dam improvement projects and to provide access to a permanent alternative drinking water source to certain residents within a half-mile of coal ash basin compliance boundaries and to certain other potentially impacted residents. The legislation requires excavation of the Sutton, Riverbend and Dan River basins by August 1, 2019, and Asheville basins by August 1, 2022. Excavation at these sites may include a combination of transfer of coal ash to an engineered landfill or conversion for beneficial use. Basins at the H.F. Lee, Cape Fear and Weatherspoon sites are required to be closed through excavation no later than August 1, 2028. Excavation at these sites can include conversion of the basin to a lined industrial landfill, transfer of ash to an engineered landfill or conversion for beneficial use. The remaining basins are required to be closed no later than December 31, 2024, through conversion to a lined industrial landfill, transfer to an engineered landfill or conversion for beneficial use, unless certain dam improvement projects and alternative drinking water source projects are completed by October 15, 2018. Upon satisfactory completion of these projects, the closure deadline would be extended to December 31, 2029, and could include closure through the combination of a cap system and a groundwater monitoring system.

Additionally, the Coal Ash Act requires the installation and operation of three large-scale coal ash beneficiation projects to produce reprocessed ash for use in the concrete industry. Duke Energy selected the Buck, H.F. Lee and Cape Fear plants for these projects. Closure at these sites is required to be completed no later than December 31, 2029.

The Coal Ash Act includes a variance procedure for compliance deadlines and other issues surrounding the management of CCR and CCR surface impoundments and prohibits cost recovery in customer rates for unlawful discharge of ash impoundment waters occurring after January 1, 2014. The Coal Ash Act leaves the decision on cost recovery determinations related to closure of ash impoundments to the normal ratemaking processes before utility regulatory commissions. Consistent with the requirements of the Coal Ash Act, Duke Energy has submitted comprehensive site assessments and groundwater corrective plans to NCDEQ and will submit to NCDEQ site-specific coal ash impoundment closure plans in advance of closure. These plans and all associated permits must be approved by NCDEQ before closure work can begin.

For further information on AROs, see Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations."

Clean Water Act 316(b)

EPA published the final 316(b) cooling water intake structure rule on August 15, 2014, with an effective date of October 14, 2014. The rule applies to 26 of the electric generating facilities the Duke Energy Registrants own and operate. The rule allows for several options to demonstrate compliance and provides flexibility to the state environmental permitting agencies to make determinations on controls, if any, that will be required for cooling water intake structures. Any required intake structure modifications and/or retrofits are expected to be installed in the 2019 to 2023 time frame. Petitions challenging the rule have been filed by several groups. Oral argument was held on September 14, 2017. It is unknown when the courts will rule on the petitions. The Duke Energy Registrants cannot predict the outcome of these matters.

Steam Electric Effluent Limitations Guidelines

On January 4, 2016, the final Steam Electric Effluent Limitations Guidelines (ELG) rule became effective. The rule establishes new requirements for wastewater streams associated with steam electric power generation and includes more stringent controls for any new coal plants that may be built in the future. As originally written, affected facilities were required to comply

between 2018 and 2023, depending on the timing of Clean Water Act (CWA) discharge permits. Most of the steam electric generating facilities the Duke Energy Registrants own are affected sources. The Duke Energy Registrants are well-positioned to meet the majority of the requirements of the rule due to current efforts to convert to dry ash handling. Petitions challenging the rule have been filed by several groups. On March 16, 2015, Duke Energy Indiana filed its own legal challenge to the rule with the Seventh Circuit Court of Appeals specific to the ELG rule focused on the limits imposed on IGCC facilities (gasification wastewater). All challenges to the rule were consolidated in the Fifth Circuit Court of Appeals. On August 22, 2017, the Fifth Circuit Court of Appeals granted EPA's Motion to Govern Further Proceedings, thereby severing and suspending the claims related to flue gas desulfurization wastewater, bottom ash transport water and gasification wastewater. Claims regarding gasification wastewater were stayed, pending the issuance of the variance to Duke Energy Indiana. The litigation will continue as to claims related to other waste streams.

On August 7, 2017, EPA issued a public notice regarding its proposed decision to grant a variance to Duke Energy Indiana for mercury and total dissolved solids for gasification wastewater at its Edwardsport facility. The public comment period has ended, but EPA has not finalized its decision. Separate from the litigation, EPA finalized a rule on September 18, 2017, postponing the earliest applicability date for bottom ash transport water and flue gas desulfurization wastewater from 2018 to 2020 and retaining the end applicability date of 2023. Also, as part of the rule, EPA reiterated its intent to review the limitation guidelines for bottom ash transport water and flue gas desulfurization wastewater and potentially to conduct a new rulemaking to revise those guidelines.

The Duke Energy Registrants cannot predict the outcome of these matters.

Estimated Cost and Impacts of Rulemakings

Duke Energy will incur capital expenditures to comply with the environmental regulations and rules discussed above. The following table provides five-year estimated costs, excluding AFUDC, of new control equipment that may need to be installed on existing power plants primarily to comply with the Coal Ash Act requirements for conversion to dry disposal of bottom ash and fly ash, CWA 316(b) and ELGs through December 31, 2022. The table excludes ash basin closure costs recorded in Asset retirement obligations on the Consolidated Balance Sheets. For more information related to AROs, see Note 9 to the Consolidated Financial Statements.

(in millions)	Five-Year Estimated Costs
Duke Energy	\$ 920
Duke Energy Carolinas	380
Progress Energy	360
Duke Energy Progress	230
Duke Energy Florida	130
Duke Energy Ohio	70
Duke Energy Indiana	110

The Duke Energy Registrants also expect to incur increased fuel, purchased power, operation and maintenance and other expenses, in addition to costs for replacement generation for potential coal-fired power plant retirements, as a result of these regulations. Actual compliance costs incurred may be materially different from these estimates due to reasons such as the timing and requirements of EPA regulations and the resolution of legal challenges to the rules. The Duke Energy Registrants intend to seek rate recovery of necessary and prudently incurred costs associated with regulated operations to comply with these regulations.

Cross-State Air Pollution Rule

On December 3, 2015, EPA proposed a rule to lower the Cross-State Air Pollution Rule (CSAPR) Phase 2 state ozone season nitrogen oxide (NO_x) emission budgets for 23 eastern states, including North Carolina, Ohio, Kentucky

PART II

and Indiana. EPA also proposed to eliminate the CSAPR Phase 2 ozone season state NO_x budgets for Florida and South Carolina. On September 7, 2016, EPA finalized a CSAPR Update Rule that reduces the CSAPR Phase 2 state ozone season NO_x emission budgets for 22 eastern states, including Ohio, Kentucky and Indiana. In the final CSAPR Update Rule, EPA removed Florida, South Carolina and North Carolina from the ozone season NO_x program. Beginning in 2017, Duke Energy Registrants in these states will not be subject to any CSAPR ozone season NO_x emission limitations. For the states that remain in the program, the reduced state ozone season NO_x emission budgets took effect on May 1, 2017. In Kentucky and Indiana, where Duke Energy Registrants own and operate coal-fired electric generating units (EGUs) subject to the final rule requirements, near-term responses include changing unit dispatch to run certain generating units less frequently and/or purchasing NO_x allowances from the trading market. Longer term, upgrading the performance of existing NO_x controls is an option. The Indiana Utility Group and the Indiana Energy Association jointly filed a petition for reconsideration asking that EPA correct errors it made in calculating the Indiana budget and increase the budget accordingly. EPA has yet to act on the petition. Numerous parties have filed petitions with the D.C. Circuit Court challenging various aspects of the CSAPR Update Rule. Final briefs in the case are due April 9, 2018. The date for oral argument has not been established. The Duke Energy Registrants cannot predict the outcome of these matters.

Carbon Pollution Standards for New, Modified and Reconstructed Power Plants

On October 23, 2015, EPA published a final rule in the Federal Register establishing carbon dioxide (CO₂) emissions limits for new, modified and reconstructed power plants. The requirements for new plants apply to plants that commenced construction after January 8, 2014. EPA set an emissions standard for coal units of 1,400 pounds of CO₂ per gross MWh, which would require the application of partial carbon capture and storage (CCS) technology for a coal unit to be able to meet the limit. Utility-scale CCS is not currently a demonstrated and commercially available technology for coal-fired EGUs, and therefore the final standard effectively prevents the development of new coal-fired generation. EPA set a final standard of 1,000 pounds of CO₂ per gross MWh for new natural gas combined-cycle units.

On March 28, 2017, President Trump signed an executive order directing EPA to review the rule and determine whether to suspend, revise or rescind it. On the same day, the Department of Justice (DOJ) filed a motion with the D.C. Circuit Court requesting that the court stay the litigation of the rule while it is reviewed by EPA. Subsequent to the DOJ motion, the D.C. Circuit Court canceled oral argument in the case. On August 10, 2017, the court ordered that the litigation be suspended indefinitely. The rule remains in effect pending the outcome of litigation and EPA's review. EPA has not announced a schedule for completing its review. The Duke Energy Registrants cannot predict the outcome of these matters, but do not expect the impacts of the current final standards will be material to Duke Energy's financial position, results of operations or cash flows.

Clean Power Plan

On October 23, 2015, EPA published in the Federal Register the final Clean Power Plan (CPP) rule that regulates CO₂ emissions from existing fossil fuel-fired EGUs. The CPP established CO₂ emission rates and mass cap goals that apply to existing fossil fuel-fired EGUs. Petitions challenging the rule were filed by several groups and on February 9, 2016, the Supreme Court issued a stay of the final CPP rule, halting implementation of the rule until legal challenges are resolved. States in which the Duke Energy Registrants operate have suspended work on the CPP in response to the stay. Oral arguments before 10 of the 11 judges on D.C. Circuit Court were heard on September 27, 2016. The court has not issued its opinion in the case.

On March 28, 2017, President Trump signed an executive order directing EPA to review the CPP and determine whether to suspend, revise or rescind the rule. On the same day, the DOJ filed a motion with the D.C. Circuit Court

requesting that the court stay the litigation of the rule while it is reviewed by EPA. On April 28, 2017, the court issued an order to suspend the litigation for 60 days. On August 8, 2017, the court, on its own motion, extended the suspension of the litigation for an additional 60 days. On October 16, 2017, EPA issued a Notice of Proposed Rulemaking (NPR) to repeal the CPP based on a change to EPA's legal interpretation of the section of the Clean Air Act (CAA) on which the CPP was based. In the proposal, EPA indicates that it has not determined whether it will issue a rule to replace the CPP, and if it will do so, when and what form that rule will take. The comment period on EPA's NPR ends April 26, 2018. On December 28, 2017, EPA issued an Advance Notice of Proposed Rulemaking (ANPRM) in which it seeks public comment on various aspects of a potential CPP replacement rule. The comment period on the ANPRM ends February 26, 2018. If EPA decides to move forward with a CPP replacement rule, it will need to issue a formal proposal for public comment. Litigation of the CPP remains on hold in the D.C. Circuit Court and the February 2016 U.S. Supreme Court stay of the CPP remains in effect. The Duke Energy Registrants cannot predict the outcome of these matters.

Global Climate Change

The Duke Energy Registrants' greenhouse gas (GHG) emissions consist primarily of CO₂ and result primarily from operating a fleet of coal-fired and natural gas-fired power plants. In 2017, the Duke Energy Registrants' power plants emitted approximately 105 million tons of CO₂. Future levels of CO₂ emissions will be influenced by variables that include fuel prices, compliance with new or existing regulations, economic conditions that affect electricity demand and the technologies deployed to generate the electricity necessary to meet the customer demand.

The Duke Energy Registrants have taken actions that have resulted in a reduction of CO₂ emissions over time. Actions have included the retirement of 47 coal-fired EGUs with a combined generating capacity of 5,425 MW. Much of that capacity has been replaced with state-of-the-art highly efficient natural gas-fired generation that produces far fewer CO₂ emissions per unit of electricity generated. Duke Energy also has made investments to expand its portfolio of wind and solar projects, increase energy efficiency offerings and invest in its zero-CO₂ emissions hydropower and nuclear plants. These efforts have diversified its system and significantly reduced CO₂ emissions. Between 2005 and 2017, the Duke Energy Registrants have collectively lowered the CO₂ emissions from their electricity generation by more than 31 percent, which lowers the exposure to any future mandatory CO₂ emission reduction requirements or carbon tax, whether as a result of federal legislation, EPA regulation, state regulation or other as yet unknown emission reduction requirement. Duke Energy will continue to explore the use of currently-available and commercially-demonstrated technology to reduce CO₂ emissions, including energy efficiency, wind, solar, storage, nuclear and carbon sequestration. Duke Energy will adjust to evolving and innovative technologies in a way that balances the reliability and affordability that customers expect. Under any future scenario involving mandatory CO₂ limitations, the Duke Energy Registrants would plan to seek recovery of their compliance costs through appropriate regulatory mechanisms.

The Duke Energy Registrants recognize certain groups associate severe weather events with increasing levels of GHGs in the atmosphere and forecast the possibility these weather events could have a material impact on future results of operations should they occur more frequently and with greater severity. However, the uncertain nature of potential changes in extreme weather events (such as increased frequency, duration and severity), the long period of time over which any potential changes might take place and the inability to predict potential changes with any degree of accuracy, make estimating any potential future financial risk to the Duke Energy Registrants' operations impossible. The Duke Energy Registrants have historically planned and prepared for extreme weather events, such as ice storms, tornadoes, hurricanes, severe thunderstorms, high winds and droughts they occasionally experience.

The Duke Energy Registrants annually, biannually or triennially prepare lengthy, forward-looking "integrated resource plans" (IRPs). These detailed, highly technical plans are based on the company's thorough analysis of

PART II

numerous factors that can impact the cost of producing and delivering electricity that influence long-term resource planning decisions. The IRP process helps to evaluate a range of options, taking into account forecasts of future electricity demand, fuel prices, transmission improvements, new generating capacity, integration of renewables, energy storage, energy efficiency and demand response initiatives. The IRP process also helps evaluate potential environmental and regulatory scenarios to better mitigate policy and economic risks. The IRPs we file with regulators look out 10 to 20 years depending on the jurisdiction.

For a number of years, the Duke Energy Registrants have included a price on CO₂ emissions in their IRP planning process to account for the potential regulation of CO₂ emissions. Incorporating a price on CO₂ emissions in the IRP allows for the evaluation of existing and future resource needs against potential climate change policy risk in the absence of policy certainty. One of the challenges with using a CO₂ price, especially in the absence of a clear and certain policy, is determining the appropriate price to use. To address this uncertainty and ensure the company remains agile, the Duke Energy Registrants typically use a range of potential CO₂ prices to reflect a range of potential policy outcomes.

The Duke Energy Registrants routinely take steps to reduce the potential impact of severe weather events on their electric distribution systems. The Duke Energy Registrants' electric generating facilities are designed to withstand extreme weather events without significant damage. The Duke Energy Registrants maintain an inventory of coal and oil on-site to mitigate the effects of any potential short-term disruption in fuel supply so they can continue to provide customers with an uninterrupted supply of electricity.

North Carolina Legislation

In July 2017, the North Carolina General Assembly passed House Bill 589 and it was subsequently enacted into law by the governor. The law includes, among other things, overall reform of the application of Public Utility Regulatory Policies Act of 1978 (PURPA) for new solar projects in the state, a requirement for the utility to procure approximately 2,600 MW of renewable energy through a competitive bidding process and recovery of costs related to the competitive bidding process through the fuel clause and a competitive procurement rider.

The law stipulated certain deadlines for Duke Energy to file for NCUC approval of programs required under the law. Duke Energy has made some regulatory filings since the passage of the law and will continue to implement the requirements of House Bill 589.

Nuclear Matters

Following the events at the Fukushima Daiichi nuclear power station in Japan, in March 2011, the NRC formed a task force to conduct a comprehensive review of processes and regulations to determine whether the agency should make additional improvements to the nuclear regulatory system. Subsequently, the NRC targeted a set of improvements designed to enhance accident mitigation, strengthen emergency preparedness and improve efficiency of NRC programs. Pursuant to the findings of the task force, in March 2012, the NRC issued three regulatory orders requiring safety enhancements related to mitigation strategies to respond to extreme natural events resulting in the loss of power at a plant, ensuring reliable hardened containment vents and enhancing spent fuel pool instrumentation. Duke Energy is committed to compliance with all safety enhancements ordered by the NRC and has completed actions on two of the three NRC orders, as required. The remaining order is focused only on enhancements to boiling water reactor designs which, for Duke Energy, is unique to Brunswick Steam Electric Plant. Actions associated with this third order will be completed by March 2019. With the NRC's continuing review of this matter, Duke Energy cannot predict to what extent the NRC will impose additional licensing and safety-related requirements or the costs of complying with such requirements. Upon receipt of additional guidance from the NRC and a collaborative industry review, Duke Energy will be able to determine an implementation plan and associated costs. See Item 1A, "Risk Factors," for further discussion of applicable risk factors.

New Accounting Standards

See Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies," for a discussion of the impact of new accounting standards.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

See "Management's Discussion and Analysis of Results of Operations and Financial Condition — Quantitative and Qualitative Disclosures About Market Risk."

PART II

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

Duke Energy Corporation (Duke Energy)

Report of Independent Registered Public Accounting Firm	67
Consolidated Statements of Operations	68
Consolidated Statements of Comprehensive Income	69
Consolidated Balance Sheets	70
Consolidated Statements of Cash Flows	72
Consolidated Statements of Changes in Equity	74

Duke Energy Carolinas, LLC (Duke Energy Carolinas)

Report of Independent Registered Public Accounting Firm	75
Consolidated Statements of Operations and Comprehensive Income	76
Consolidated Balance Sheets	77
Consolidated Statements of Cash Flows	78
Consolidated Statements of Changes in Equity	79

Progress Energy, Inc. (Progress Energy)

Report of Independent Registered Public Accounting Firm	80
Consolidated Statements of Operations and Comprehensive Income	81
Consolidated Balance Sheets	82
Consolidated Statements of Cash Flows	84
Consolidated Statements of Changes in Equity	86

Duke Energy Progress, LLC (Duke Energy Progress)

Report of Independent Registered Public Accounting Firm	87
Consolidated Statements of Operations and Comprehensive Income	88
Consolidated Balance Sheets	89
Consolidated Statements of Cash Flows	90
Consolidated Statements of Changes in Equity	91

Duke Energy Florida, LLC (Duke Energy Florida)

Report of Independent Registered Public Accounting Firm	92
Consolidated Statements of Operations and Comprehensive Income	93
Consolidated Balance Sheets	94
Consolidated Statements of Cash Flows	95
Consolidated Statements of Changes in Equity	96

Duke Energy Ohio, Inc. (Duke Energy Ohio)

Report of Independent Registered Public Accounting Firm	97
Consolidated Statements of Operations and Comprehensive Income	98
Consolidated Balance Sheets	99
Consolidated Statements of Cash Flows	100
Consolidated Statements of Changes in Equity	101

Duke Energy Indiana, LLC (Duke Energy Indiana)

Report of Independent Registered Public Accounting Firm	102
Consolidated Statements of Operations and Comprehensive Income	103
Consolidated Balance Sheets	104
Consolidated Statements of Cash Flows	105
Consolidated Statements of Changes in Equity	106

Piedmont Natural Gas Company, Inc. (Piedmont)

Report of Independent Registered Public Accounting Firm	107
Consolidated Statements of Operations and Comprehensive Income	108
Consolidated Balance Sheets	109
Consolidated Statements of Cash Flows	110
Consolidated Statements of Changes in Equity	111

Combined Notes to Consolidated Financial Statements

Note 1 – Summary of Significant Accounting Policies	112
Note 2 – Acquisitions and Dispositions	121
Note 3 – Business Segments	123
Note 4 – Regulatory Matters	127
Note 5 – Commitments and Contingencies	144
Note 6 – Debt and Credit Facilities	152
Note 7 – Guarantees and Indemnifications	158
Note 8 – Joint Ownership of Generating and Transmission Facilities	159
Note 9 – Asset Retirement Obligations	159
Note 10 – Property, Plant and Equipment	162
Note 11 – Goodwill and Intangible Assets	164
Note 12 – Investments in Unconsolidated Affiliates	165
Note 13 – Related Party Transactions	167
Note 14 – Derivatives and Hedging	168
Note 15 – Investments in Debt and Equity Securities	173
Note 16 – Fair Value Measurements	179
Note 17 – Variable Interest Entities	186
Note 18 – Common Stock	190
Note 19 – Severance	191
Note 20 – Stock-Based Compensation	191
Note 21 – Employee Benefit Plans	193
Note 22 – Income Taxes	214
Note 23 – Other Income and Expenses, Net	222
Note 24 – Subsequent Events	222
Note 25 – Quarterly Financial Data (Unaudited)	223

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholders and the Board of Directors of
Duke Energy Corporation

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Corporation and subsidiaries (the "Company") as of December 31, 2017 and 2016, the related consolidated statements of operations, comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2017, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2017 and 2016, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2017, in conformity with the accounting principles generally accepted in the United States of America.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2017, based on criteria established in *Internal Control - Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated February 21, 2018, expressed an unqualified opinion on the Company's internal control over financial reporting.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina

February 21, 2018

We have served as the Company's auditor since 1947.

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PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF OPERATIONS

(in millions, except per share amounts)	Years Ended December 31,		
	2017	2016	2015
Operating Revenues			
Regulated electric	\$21,177	\$21,221	\$21,379
Regulated natural gas	1,734	863	536
Nonregulated electric and other	654	659	456
Total operating revenues	23,565	22,743	22,371
Operating Expenses			
Fuel used in electric generation and purchased power	6,350	6,625	7,355
Cost of natural gas	632	265	141
Operation, maintenance and other	5,788	6,085	5,539
Depreciation and amortization	3,527	3,294	3,053
Property and other taxes	1,233	1,142	1,129
Impairment charges	282	18	106
Total operating expenses	17,812	17,429	17,323
Gains on Sales of Other Assets and Other, net	28	27	30
Operating Income	5,781	5,341	5,078
Other Income and Expenses			
Equity in earnings (losses) of unconsolidated affiliates	119	(15)	69
Other income and expenses, net	352	324	290
Total other income and expenses	471	309	359
Interest Expense	1,986	1,916	1,527
Income From Continuing Operations Before Income Taxes	4,266	3,734	3,910
Income Tax Expense From Continuing Operations	1,196	1,156	1,256
Income From Continuing Operations	3,070	2,578	2,654
(Loss) Income From Discontinued Operations, net of tax	(6)	(408)	177
Net Income	3,064	2,170	2,831
Less: Net Income Attributable to Noncontrolling Interests	5	18	15
Net Income Attributable to Duke Energy Corporation	\$ 3,059	\$ 2,152	\$ 2,816
Earnings Per Share – Basic and Diluted			
Income from continuing operations attributable to Duke Energy Corporation common stockholders			
Basic	\$ 4.37	\$ 3.71	\$ 3.80
Diluted	\$ 4.37	\$ 3.71	\$ 3.80
(Loss) Income from discontinued operations attributable to Duke Energy Corporation common stockholders			
Basic	\$ (0.01)	\$ (0.60)	\$ 0.25
Diluted	\$ (0.01)	\$ (0.60)	\$ 0.25
Net income attributable to Duke Energy Corporation common stockholders			
Basic	\$ 4.36	\$ 3.11	\$ 4.05
Diluted	\$ 4.36	\$ 3.11	\$ 4.05
Weighted average shares outstanding			
Basic	700	691	694
Diluted	700	691	694

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2017	2016	2015
Net Income	\$ 3,064	\$ 2,170	\$ 2,831
Other Comprehensive Income (Loss), net of tax			
Foreign currency translation adjustments	—	694	(264)
Pension and OPEB adjustments	3	(11)	(13)
Net unrealized gains on cash flow hedges	2	17	—
Reclassification into earnings from cash flow hedges	8	13	9
Unrealized gains (losses) on available-for-sale securities	13	2	(6)
Other Comprehensive Income (Loss), net of tax	26	715	(274)
Comprehensive Income	3,090	2,885	2,557
Less: Comprehensive Income Attributable to Noncontrolling Interests	5	20	4
Comprehensive Income Attributable to Duke Energy Corporation	\$ 3,085	\$ 2,865	\$ 2,553

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CORPORATION

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2017	2016
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 358	\$ 392
Receivables (net of allowance for doubtful accounts of \$14 at 2017 and 2016)	779	751
Receivables of VIEs (net of allowance for doubtful accounts of \$54 at 2017 and 2016)	1,995	1,893
Inventory	3,250	3,522
Regulatory assets (includes \$51 at 2017 and \$50 at 2016 related to VIEs)	1,437	1,023
Other	634	458
Total current assets	8,453	8,039
Property, Plant and Equipment		
Cost	127,507	121,397
Accumulated depreciation and amortization	(41,537)	(39,406)
Generation facilities to be retired, net	421	529
Net property, plant and equipment	86,391	82,520
Other Noncurrent Assets		
Goodwill	19,396	19,425
Regulatory assets (includes \$1,091 at 2017 and \$1,142 at 2016 related to VIEs)	12,442	12,878
Nuclear decommissioning trust funds	7,097	6,205
Investments in equity method unconsolidated affiliates	1,175	925
Other	2,960	2,769
Total other noncurrent assets	43,070	42,202
Total Assets	\$137,914	\$132,761

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY CORPORATION

CONSOLIDATED BALANCE SHEETS – (Continued)

(in millions)	December 31,	
	2017	2016
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 3,043	\$ 2,994
Notes payable and commercial paper	2,163	2,487
Taxes accrued	551	384
Interest accrued	525	503
Current maturities of long-term debt (includes \$225 at 2017 and \$260 at 2016 related to VIEs)	3,244	2,319
Asset retirement obligations	689	411
Regulatory liabilities	402	409
Other	1,865	2,044
Total current liabilities	12,482	11,551
Long-Term Debt (includes \$4,306 at 2017 and \$3,587 at 2016 related to VIEs)	49,035	45,576
Other Noncurrent Liabilities		
Deferred income taxes	6,621	14,155
Asset retirement obligations	9,486	10,200
Regulatory liabilities	15,330	6,881
Accrued pension and other post-retirement benefit costs	1,103	1,111
Investment tax credits	539	493
Other	1,581	1,753
Total other noncurrent liabilities	34,660	34,593
Commitments and Contingencies		
Equity		
Common stock, \$0.001 par value, 2 billion shares authorized; 700 million shares outstanding at 2017 and 2016	1	1
Additional paid-in capital	38,792	38,741
Retained earnings	3,013	2,384
Accumulated other comprehensive loss	(67)	(93)
Total Duke Energy Corporation stockholders' equity	41,739	41,033
Noncontrolling interests	(2)	8
Total equity	41,737	41,041
Total Liabilities and Equity	\$137,914	\$132,761

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2017	2016	2015
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 3,064	\$ 2,170	\$ 2,831
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion (including amortization of nuclear fuel)	4,046	3,880	3,613
Equity component of AFUDC	(237)	(200)	(164)
(Gains) Losses on sales of other assets	(33)	477	(48)
Impairment charges	282	212	153
Deferred income taxes	1,433	900	1,244
Equity in (earnings) losses of unconsolidated affiliates	(119)	15	(69)
Accrued pension and other post-retirement benefit costs	8	21	71
Contributions to qualified pension plans	(19)	(155)	(302)
Payments for asset retirement obligations	(571)	(608)	(346)
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	18	34	(29)
Receivables	(83)	(372)	383
Inventory	268	272	(237)
Other current assets	(388)	(220)	(65)
Increase (decrease) in			
Accounts payable	(204)	296	(6)
Taxes accrued	149	236	(38)
Other current liabilities	(482)	182	168
Other assets	(438)	(186)	(216)
Other liabilities	(60)	(137)	(243)
Net cash provided by operating activities	6,634	6,817	6,700
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(8,052)	(7,901)	(6,766)
Contributions to equity method investments	(414)	(307)	(263)
Acquisitions, net of cash acquired	(13)	(4,778)	(1,334)
Return of investment capital	281	1	3
Purchases of available-for-sale securities	(4,071)	(5,153)	(4,037)
Proceeds from sales and maturities of available-for-sale securities	4,098	5,236	4,040
Proceeds from the sales of discontinued operations and other assets, net of cash divested	—	1,418	2,968
Change in restricted cash	(10)	(4)	191
Other	(269)	(45)	(79)
Net cash used in investing activities	(8,450)	(11,533)	(5,277)

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF CASH FLOWS – (Continued)

(in millions)	Years Ended December 31,		
	2017	2016	2015
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the:			
Issuance of long-term debt	\$ 6,909	\$ 9,238	\$ 2,955
Issuance of common stock	—	731	17
Payments for the redemption of long-term debt	(2,316)	(1,923)	(3,029)
Proceeds from the issuance of short-term debt with original maturities greater than 90 days	319	2,081	379
Payments for the redemption of short-term debt with original maturities greater than 90 days	(272)	(2,166)	(931)
Notes payable and commercial paper	(409)	(1,362)	1,797
Dividends paid	(2,450)	(2,332)	(2,254)
Repurchase of common shares	—	—	(1,500)
Other	1	(16)	(36)
Net cash provided by (used in) financing activities	1,782	4,251	(2,602)
Changes in cash and cash equivalents included in assets held for sale	—	474	1,099
Net (decrease) increase in cash and cash equivalents	(34)	9	(80)
Cash and cash equivalents at beginning of period	392	383	463
Cash and cash equivalents at end of period	\$ 358	\$ 392	\$ 383
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 1,963	\$ 1,794	\$ 1,607
Cash paid for income taxes	4	229	170
Significant non-cash transactions:			
Accrued capital expenditures	1,032	1,000	771

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Duke Energy Corporation Stockholders' Accumulated Other Comprehensive Loss										
	Common Stock Shares	Common Stock	Additional Paid-in Capital	Retained Earnings	Foreign Currency Translation Adjustments	Net Losses on Cash Flow Hedges	Net Unrealized Gains (Losses) on Available-for-Sale Securities	Pension and OPEB Adjustments	Total Duke Energy Corporation Stockholders' Equity	Noncontrolling Interests	Total Equity
Balance at December 31, 2014	707	\$ 1	\$ 39,405	\$ 2,012	\$ (439)	\$ (59)	\$ 3	\$ (48)	\$ 40,875	\$ 24	\$ 40,899
Net income	—	—	—	2,816	—	—	—	—	2,816	15	2,831
Other comprehensive (loss) income	—	—	—	—	(253)	9	(6)	(13)	(263)	(11)	(274)
Common stock issuances, including dividend reinvestment and employee benefits	1	—	63	—	—	—	—	—	63	—	63
Stock repurchase	(20)	—	(1,500)	—	—	—	—	—	(1,500)	—	(1,500)
Common stock dividends	—	—	—	(2,254)	—	—	—	—	(2,254)	—	(2,254)
Distributions to noncontrolling interest in subsidiaries	—	—	—	—	—	—	—	—	—	(9)	(9)
Other ^(a)	—	—	—	(10)	—	—	—	—	(10)	25	15
Balance at December 31, 2015	688	\$ 1	\$ 37,968	\$ 2,564	\$ (692)	\$ (50)	\$ (3)	\$ (61)	\$ 39,727	\$ 44	\$ 39,771
Net income	—	—	—	2,152	—	—	—	—	2,152	18	2,170
Other comprehensive (loss) income ^(b)	—	—	—	—	692	30	2	(11)	713	2	715
Common stock issuances, including dividend reinvestment and employee benefits	12	—	773	—	—	—	—	—	773	—	773
Common stock dividends	—	—	—	(2,332)	—	—	—	—	(2,332)	—	(2,332)
Distributions to noncontrolling interest in subsidiaries	—	—	—	—	—	—	—	—	—	(6)	(6)
Other ^(c)	—	—	—	—	—	—	—	—	—	(50)	(50)
Balance at December 31, 2016	700	\$ 1	\$ 38,741	\$ 2,384	\$ —	\$ (20)	\$ (1)	\$ (72)	\$ 41,033	\$ 8	\$ 41,041
Net income	—	—	—	3,059	—	—	—	—	3,059	5	3,064
Other comprehensive income (loss)	—	—	—	—	—	10	13	3	26	—	26
Common stock issuances, including dividend reinvestment and employee benefits	—	—	51	—	—	—	—	—	51	—	51
Common stock dividends	—	—	—	(2,450)	—	—	—	—	(2,450)	—	(2,450)
Distributions to noncontrolling interests in subsidiaries	—	—	—	—	—	—	—	—	—	(2)	(2)
Other ^(d)	—	—	—	20	—	—	—	—	20	(13)	7
Balance at December 31, 2017	700	\$ 1	\$ 38,792	\$ 3,013	\$ —	\$ (10)	\$ 12	\$ (69)	\$ 41,739	\$ (2)	\$ 41,737

- (a) Noncontrolling Interests amount is primarily related to the acquisitions of a majority interest in a provider of energy management systems and services for commercial customers and a solar company.
- (b) Foreign Currency Translation Adjustments amount includes \$620 million of cumulative adjustment realized as a result of the sale of the Latin American generation business. See Note 2 to the Consolidated Financial Statements.
- (c) Noncontrolling Interests amount is primarily related to the sale of the Latin American generation business. See Note 2 to the Consolidated Financial Statements.
- (d) Retained Earnings relates to a cumulative-effect adjustment due to implementation of a new accounting standard related to stock-based compensation and the associated income taxes. See Note 1 to the Consolidated Financial Statements for additional information. Noncontrolling Interests relates to the purchase of remaining interest in REC Solar.

See Notes to Consolidated Financial Statements

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PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Carolinas, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Carolinas, LLC and subsidiaries (the "Company") as of December 31, 2017 and 2016, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2017, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2017 and 2016, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2017, in conformity with the accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 21, 2018

We have served as the Company's auditor since 1947.

PART II

DUKE ENERGY CAROLINAS, LLC

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2017	2016	2015
Operating Revenues	\$ 7,302	\$ 7,322	\$ 7,229
Operating Expenses			
Fuel used in electric generation and purchased power	1,822	1,797	1,881
Operation, maintenance and other	1,961	2,106	2,066
Depreciation and amortization	1,090	1,075	1,051
Property and other taxes	281	276	269
Impairment charges	—	1	1
Total operating expenses	5,154	5,255	5,268
Gain (Loss) on Sales of Other Assets and Other, net	1	(5)	(1)
Operating Income	2,149	2,062	1,960
Other Income and Expenses, net	139	162	160
Interest Expense	422	424	412
Income Before Income Taxes	1,866	1,800	1,708
Income Tax Expense	652	634	627
Net Income	\$ 1,214	\$ 1,166	\$ 1,081
Other Comprehensive Income, net of tax			
Reclassification into earnings from cash flow hedges	2	2	1
Unrealized gains on available-for-sale securities	—	—	1
Other Comprehensive Income, net of tax	2	2	2
Comprehensive Income	\$ 1,216	\$ 1,168	\$ 1,083

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY CAROLINAS, LLC

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2017	2016
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 16	\$ 14
Receivables (net of allowance for doubtful accounts of \$2 at 2017 and 2016)	200	160
Receivables of VIEs (net of allowance for doubtful accounts of \$7 at 2017 and 2016)	640	645
Receivables from affiliated companies	95	163
Notes receivable from affiliated companies	—	66
Inventory	971	1,055
Regulatory assets	299	238
Other	19	37
Total current assets	2,240	2,378
Property, Plant and Equipment		
Cost	42,939	41,127
Accumulated depreciation and amortization	(15,063)	(14,365)
Net property, plant and equipment	27,876	26,762
Other Noncurrent Assets		
Regulatory assets	2,853	3,159
Nuclear decommissioning trust funds	3,772	3,273
Other	979	943
Total other noncurrent assets	7,604	7,375
Total Assets	\$ 37,720	\$ 36,515
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 842	\$ 833
Accounts payable to affiliated companies	209	247
Notes payable to affiliated companies	104	—
Taxes accrued	234	143
Interest accrued	108	102
Current maturities of long-term debt	1,205	116
Asset retirement obligations	337	222
Regulatory liabilities	126	161
Other	486	468
Total current liabilities	3,651	2,292
Long-Term Debt	8,598	9,187
Long-Term Debt Payable to Affiliated Companies	300	300
Other Noncurrent Liabilities		
Deferred income taxes	3,413	6,544
Asset retirement obligations	3,273	3,673
Regulatory liabilities	6,231	2,840
Accrued pension and other post-retirement benefit costs	95	97
Investment tax credits	232	203
Other	566	607
Total other noncurrent liabilities	13,810	13,964
Commitments and Contingencies		
Equity		
Member's equity	11,368	10,781
Accumulated other comprehensive loss	(7)	(9)
Total equity	11,361	10,772
Total Liabilities and Equity	\$ 37,720	\$ 36,515

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CAROLINAS, LLC

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2017	2016	2015
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 1,214	\$ 1,166	\$ 1,081
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization (including amortization of nuclear fuel)	1,409	1,382	1,361
Equity component of AFUDC	(106)	(102)	(96)
(Gains) Losses on sales of other assets	(1)	5	1
Impairment charges	—	1	1
Deferred income taxes	410	470	397
Accrued pension and other post-retirement benefit costs	(4)	4	15
Contributions to qualified pension plans	—	(43)	(91)
Payments for asset retirement obligations	(271)	(287)	(167)
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	9	5	—
Receivables	(9)	(76)	42
Receivables from affiliated companies	68	(56)	(32)
Inventory	78	215	(157)
Other current assets	7	67	(51)
Increase (decrease) in			
Accounts payable	23	(69)	(4)
Accounts payable to affiliated companies	(38)	18	75
Taxes accrued	86	187	(128)
Other current liabilities	(161)	63	127
Other assets	(49)	20	76
Other liabilities	(31)	6	(77)
Net cash provided by operating activities	2,634	2,976	2,373
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(2,524)	(2,220)	(1,933)
Purchases of available-for-sale securities	(2,124)	(2,832)	(2,555)
Proceeds from sales and maturities of available-for-sale securities	2,128	2,832	2,555
Notes receivable from affiliated companies	66	97	(13)
Other	(109)	(83)	(35)
Net cash used in investing activities	(2,563)	(2,206)	(1,981)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	569	1,587	516
Payments for the redemption of long-term debt	(116)	(356)	(506)
Notes payable to affiliated companies	104	—	—
Distributions to parent	(625)	(2,000)	(401)
Other	(1)	—	(1)
Net cash used in financing activities	(69)	(769)	(392)
Net increase in cash and cash equivalents	2	1	—
Cash and cash equivalents at beginning of period	14	13	13
Cash and cash equivalents at end of period	\$ 16	\$ 14	\$ 13
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 398	\$ 393	\$ 389
Cash paid for (received from) income taxes	193	(60)	342
Significant non-cash transactions:			
Accrued capital expenditures	315	347	239

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY CAROLINAS, LLC

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Member's Equity	Accumulated Other Comprehensive Loss		Total Equity
		Net Losses on Cash Flow Hedges	Net Losses Available- for-Sale Securities	
Balance at December 31, 2014	\$10,937	\$ (12)	\$ (1)	\$10,924
Net income	1,081	—	—	1,081
Other comprehensive income	—	1	1	2
Distributions to parent	(401)	—	—	(401)
Balance at December 31, 2015	\$11,617	\$ (11)	\$ —	\$11,606
Net income	1,166	—	—	1,166
Other comprehensive income	—	2	—	2
Distributions to parent	(2,000)	—	—	(2,000)
Other	(2)	—	—	(2)
Balance at December 31, 2016	\$10,781	\$ (9)	\$ —	\$10,772
Net income	1,214	—	—	1,214
Other comprehensive income	—	2	—	2
Distributions to parent	(625)	—	—	(625)
Other	(2)	—	—	(2)
Balance at December 31, 2017	\$11,368	\$ (7)	\$ —	\$11,361

See Notes to Consolidated Financial Statements

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PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Progress Energy, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Progress Energy, Inc. and subsidiaries (the "Company") as of December 31, 2017 and 2016, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2017, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2017 and 2016, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2017, in conformity with the accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 21, 2018

We have served as the Company's auditor since 1930.

PART II

PROGRESS ENERGY, INC.

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2017	2016	2015
Operating Revenues	\$ 9,783	\$ 9,853	\$10,277
Operating Expenses			
Fuel used in electric generation and purchased power	3,417	3,644	4,224
Operation, maintenance and other	2,220	2,386	2,298
Depreciation and amortization	1,285	1,213	1,116
Property and other taxes	503	487	492
Impairment charges	156	7	12
Total operating expenses	7,581	7,737	8,142
Gains on Sales of Other Assets and Other, net	26	25	25
Operating Income	2,228	2,141	2,160
Other Income and Expenses, net	128	114	97
Interest Expense	824	689	670
Income From Continuing Operations Before Income Taxes	1,532	1,566	1,587
Income Tax Expense From Continuing Operations	264	527	522
Income From Continuing Operations	1,268	1,039	1,065
Income (Loss) From Discontinued Operations, net of tax	—	2	(3)
Net Income	1,268	1,041	1,062
Less: Net Income Attributable to Noncontrolling Interests	10	10	11
Net Income Attributable to Parent	\$ 1,258	\$ 1,031	\$ 1,051
Net Income	\$ 1,268	\$ 1,041	\$ 1,062
Other Comprehensive Income (Loss), net of tax			
Pension and OPEB adjustments	4	1	(10)
Net unrealized gain on cash flow hedges	5	—	—
Reclassification into earnings from cash flow hedges	—	8	4
Unrealized gains (losses) on available-for-sale securities	4	1	(1)
Other Comprehensive Income (Loss), net of tax	13	10	(7)
Comprehensive Income	1,281	1,051	1,055
Less: Comprehensive Income Attributable to Noncontrolling Interests	10	10	11
Comprehensive Income Attributable to Parent	\$ 1,271	\$ 1,041	\$ 1,044

See Notes to Consolidated Financial Statements

PART II

PROGRESS ENERGY, INC.

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2017	2016
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 40	\$ 46
Receivables (net of allowance for doubtful accounts of \$4 at 2017 and \$6 at 2016)	123	114
Receivables of VIEs (net of allowance for doubtful accounts of \$7 at 2017 and 2016)	780	692
Receivables from affiliated companies	31	106
Notes receivable from affiliated companies	240	80
Inventory	1,592	1,717
Regulatory assets (includes \$51 at 2017 and \$50 at 2016 related to VIEs)	741	401
Other	334	148
Total current assets	3,881	3,304
Property, Plant and Equipment		
Cost	47,323	44,864
Accumulated depreciation and amortization	(15,857)	(15,212)
Generation facilities to be retired, net	421	529
Net property, plant and equipment	31,887	30,181
Other Noncurrent Assets		
Goodwill	3,655	3,655
Regulatory assets (includes \$1,091 at 2017 and \$1,142 at 2016 related to VIEs)	6,010	5,722
Nuclear decommissioning trust funds	3,324	2,932
Other	931	856
Total other noncurrent assets	13,920	13,165
Total Assets	\$ 49,688	\$ 46,650

See Notes to Consolidated Financial Statements

PART II

PROGRESS ENERGY, INC.

CONSOLIDATED BALANCE SHEETS – (Continued)

(in millions)	December 31,	
	2017	2016
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 1,006	\$ 1,003
Accounts payable to affiliated companies	251	348
Notes payable to affiliated companies	805	729
Taxes accrued	101	83
Interest accrued	212	201
Current maturities of long-term debt (includes \$53 at 2017 and \$62 at 2016 related to VIEs)	771	778
Asset retirement obligations	295	189
Regulatory liabilities	213	189
Other	729	745
Total current liabilities	4,383	4,265
Long-Term Debt (includes \$1,689 at 2017 and \$1,741 at 2016 related to VIEs)	16,916	15,590
Long-Term Debt Payable to Affiliated Companies	150	1,173
Other Noncurrent Liabilities		
Deferred income taxes	3,502	5,246
Asset retirement obligations	5,119	5,286
Regulatory liabilities	5,306	2,395
Accrued pension and other post-retirement benefit costs	545	547
Other	302	341
Total other noncurrent liabilities	14,774	13,815
Commitments and Contingencies		
Equity		
Common stock, \$0.01 par value, 100 shares authorized and outstanding at 2017 and 2016	—	—
Additional paid-in capital	9,143	8,094
Retained earnings	4,350	3,764
Accumulated other comprehensive loss	(25)	(38)
Total Progress Energy, Inc. stockholder's equity	13,468	11,820
Noncontrolling interests	(3)	(13)
Total equity	13,465	11,807
Total Liabilities and Equity	\$ 49,688	\$ 46,650

See Notes to Consolidated Financial Statements

PART II

PROGRESS ENERGY, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2017	2016	2015
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 1,268	\$ 1,041	\$ 1,062
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion (including amortization of nuclear fuel)	1,516	1,435	1,312
Equity component of AFUDC	(92)	(76)	(54)
Gains on sales of other assets	(28)	(34)	(31)
Impairment charges	156	7	12
Deferred income taxes	703	532	714
Accrued pension and other post-retirement benefit costs	(28)	(24)	(5)
Contributions to qualified pension plans	—	(43)	(83)
Payments for asset retirement obligations	(248)	(270)	(156)
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	—	42	(6)
Receivables	(89)	7	105
Receivables from affiliated companies	71	211	(316)
Inventory	125	35	(67)
Other current assets	(384)	3	553
Increase (decrease) in			
Accounts payable	(260)	252	(193)
Accounts payable to affiliated companies	(97)	37	108
Taxes accrued	17	15	(63)
Other current liabilities	(166)	(42)	136
Other assets	(301)	(248)	(167)
Other liabilities	(98)	(36)	(112)
Net cash provided by operating activities	2,065	2,844	2,749
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(3,152)	(3,306)	(2,698)
Asset Acquisitions	—	(10)	(1,249)
Purchases of available-for-sale securities	(1,806)	(2,143)	(1,174)
Proceeds from sales and maturities of available-for-sale securities	1,824	2,187	1,211
Proceeds from insurance	7	58	—
Proceeds from the sale of nuclear fuel	20	20	102
Notes receivable from affiliated companies	(160)	(80)	220
Change in restricted cash	5	(6)	—
Other	(86)	47	(34)
Net cash used in investing activities	(3,348)	(3,233)	(3,622)

See Notes to Consolidated Financial Statements

PART II

PROGRESS ENERGY, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS – (Continued)

(in millions)	Years Ended December 31,		
	2017	2016	2015
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	\$ 2,118	\$ 2,375	\$ 1,186
Payments for the redemption of long-term debt	(813)	(327)	(1,553)
Notes payable to affiliated companies	100	444	623
Capital contribution from parent	—	—	625
Dividends to parent	(124)	(2,098)	—
Other	(4)	(3)	(6)
Net cash provided by financing activities	1,277	391	875
Net (decrease) increase in cash and cash equivalents	(6)	2	2
Cash and cash equivalents at beginning of period	46	44	42
Cash and cash equivalents at end of period	\$ 40	\$ 46	\$ 44
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 773	\$ 673	\$ 649
Cash (received from) paid for income taxes	(146)	(187)	(426)
Significant non-cash transactions:			
Accrued capital expenditures	391	317	329
Equitization of certain notes payable to affiliates	1,047	—	—
Dividend to parent related to a legal entity restructuring	547	—	—

See Notes to Consolidated Financial Statements

PART II

PROGRESS ENERGY, INC.

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Accumulated Other Comprehensive Loss					Total Progress Energy, Inc. Stockholder's Equity	Noncontrolling Interests	Total Equity
	Additional Paid-in Capital	Retained Earnings	Net Losses on Cash Flow Hedges	Net Unrealized Gains on Available-for-Sale Securities	Pension and OPEB Adjustments			
Balance at December 31, 2014	\$ 7,467	\$ 3,782	\$ (35)	\$ 1	\$ (7)	\$ 11,208	\$ (32)	\$ 11,176
Net income	—	1,051	—	—	—	1,051	11	1,062
Other comprehensive income (loss)	—	—	4	(1)	(10)	(7)	—	(7)
Distributions to noncontrolling interests	—	—	—	—	—	—	(4)	(4)
Capital contribution from parent	625	—	—	—	—	625	—	625
Other	—	(2)	—	—	—	(2)	3	1
Balance at December 31, 2015	\$ 8,092	\$ 4,831	\$ (31)	\$ —	\$ (17)	\$ 12,875	\$ (22)	\$ 12,853
Net income	—	1,031	—	—	—	1,031	10	1,041
Other comprehensive income	—	—	8	1	1	10	—	10
Distributions to noncontrolling interests	—	—	—	—	—	—	(1)	(1)
Dividends to parent	—	(2,098)	—	—	—	(2,098)	—	(2,098)
Other	2	—	—	—	—	2	—	2
Balance at December 31, 2016	\$ 8,094	\$ 3,764	\$ (23)	\$ 1	\$ (16)	\$ 11,820	\$ (13)	\$ 11,807
Net income	—	1,258	—	—	—	1,258	10	1,268
Other comprehensive income	—	—	5	4	4	13	—	13
Dividends to parent ^(a)	—	(672)	—	—	—	(672)	—	(672)
Equitization of certain notes payable to affiliates	1,047	—	—	—	—	1,047	—	1,047
Other	2	—	—	—	—	2	—	2
Balance at December 31, 2017	\$ 9,143	\$ 4,350	\$ (18)	\$ 5	\$ (12)	\$ 13,468	\$ (3)	\$ 13,465

(a) Includes a \$547 million non-cash dividend related to a legal entity restructuring.

See Notes to Consolidated Financial Statements

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PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Progress, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Progress, LLC and subsidiaries (the "Company") as of December 31, 2017 and 2016, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2017, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2017 and 2016, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2017, in conformity with the accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 21, 2018

We have served as the Company's auditor since 1930.

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PART II

DUKE ENERGY PROGRESS, LLC

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2017	2016	2015
Operating Revenues	\$5,129	\$5,277	\$5,290
Operating Expenses			
Fuel used in electric generation and purchased power	1,609	1,830	2,029
Operation, maintenance and other	1,389	1,504	1,452
Depreciation and amortization	725	703	643
Property and other taxes	156	156	140
Impairment charges	19	1	5
Total operating expenses	3,898	4,194	4,269
Gains on Sales of Other Assets and Other, net	4	3	3
Operating Income	1,235	1,086	1,024
Other Income and Expenses, net	65	71	71
Interest Expense	293	257	235
Income Before Income Taxes	1,007	900	860
Income Tax Expense	292	301	294
Net Income and Comprehensive Income	\$ 715	\$ 599	\$ 566

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY PROGRESS, LLC

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2017	2016
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 20	\$ 11
Receivables (net of allowance for doubtful accounts of \$1 at 2017 and \$4 at 2016)	56	51
Receivables of VIEs (net of allowance for doubtful accounts of \$5 at 2017 and 2016)	459	404
Receivables from affiliated companies	3	5
Notes receivable from affiliated companies	—	165
Inventory	1,017	1,076
Regulatory assets	352	188
Other	97	57
Total current assets	2,004	1,957
Property, Plant and Equipment		
Cost	29,583	28,419
Accumulated depreciation and amortization	(10,903)	(10,561)
Generation facilities to be retired, net	421	529
Net property, plant and equipment	19,101	18,387
Other Noncurrent Assets		
Regulatory assets	3,507	3,243
Nuclear decommissioning trust funds	2,588	2,217
Other	599	525
Total other noncurrent assets	6,694	5,985
Total Assets	\$ 27,799	\$ 26,329
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 402	\$ 589
Accounts payable to affiliated companies	179	227
Notes payable to affiliated companies	240	—
Taxes accrued	64	104
Interest accrued	102	102
Current maturities of long-term debt	3	452
Asset retirement obligations	295	189
Regulatory liabilities	139	158
Other	376	365
Total current liabilities	1,800	2,186
Long-Term Debt	7,204	6,409
Long-Term Debt Payable to Affiliated Companies	150	150
Other Noncurrent Liabilities		
Deferred income taxes	1,883	3,323
Asset retirement obligations	4,378	4,508
Regulatory liabilities	3,999	1,946
Accrued pension and other post-retirement benefit costs	248	252
Investment tax credits	143	146
Other	45	51
Total other noncurrent liabilities	10,696	10,226
Commitments and Contingencies		
Equity		
Member's Equity	7,949	7,358
Total Liabilities and Equity	\$ 27,799	\$ 26,329

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY PROGRESS, LLC

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2017	2016	2015
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 715	\$ 599	\$ 566
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion (including amortization of nuclear fuel)	936	907	821
Equity component of AFUDC	(47)	(50)	(47)
Gains on sales of other assets	(5)	(6)	(7)
Impairment charges	19	1	5
Deferred income taxes	384	384	354
Accrued pension and other post-retirement benefit costs	(20)	(32)	(14)
Contributions to qualified pension plans	—	(24)	(42)
Payments for asset retirement obligations	(192)	(212)	(109)
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	(4)	4	(3)
Receivables	(58)	(17)	43
Receivables from affiliated companies	2	11	(6)
Inventory	59	12	(50)
Other current assets	(75)	84	185
Increase (decrease) in			
Accounts payable	(230)	181	(65)
Accounts payable to affiliated companies	(48)	37	70
Taxes accrued	(39)	90	(34)
Other current liabilities	(131)	114	76
Other assets	(53)	(163)	(83)
Other liabilities	(18)	12	(66)
Net cash provided by operating activities	1,195	1,932	1,594
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(1,715)	(1,733)	(1,669)
Asset acquisition	—	—	(1,249)
Purchases of available-for-sale securities	(1,249)	(1,658)	(727)
Proceeds from sales and maturities of available-for-sale securities	1,207	1,615	672
Proceeds from insurance	4	—	—
Notes receivable from affiliated companies	165	(165)	237
Other	(55)	26	(30)
Net cash used in investing activities	(1,643)	(1,915)	(2,766)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	812	505	1,186
Payments for the redemption of long-term debt	(470)	(15)	(991)
Notes payable to affiliated companies	240	(209)	359
Capital contribution from parent	—	—	626
Distributions to parent	(124)	(300)	—
Other	(1)	(2)	(2)
Net cash provided by (used in) financing activities	457	(21)	1,178
Net increase (decrease) in cash and cash equivalents	9	(4)	6
Cash and cash equivalents at beginning of period	11	15	9
Cash and cash equivalents at end of period	\$ 20	\$ 11	\$ 15
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 291	\$ 248	\$ 218
Cash paid for (received from) income taxes	59	(287)	(197)
Significant non-cash transactions:			
Accrued capital expenditures	191	147	143

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY PROGRESS, LLC

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Common Stock	Retained Earnings	Member's Equity	Total Equity
Balance at December 31, 2014	\$ 2,159	\$ 3,708	\$ —	\$5,867
Net income	—	355	211	566
Transfer to Member's Equity	(2,159)	(4,063)	6,222	—
Capital contribution from parent	—	—	626	626
Balance at December 31, 2015	\$ —	\$ —	\$7,059	\$7,059
Net income	—	—	599	599
Distribution to parent	—	—	(300)	(300)
Balance at December 31, 2016	\$ —	\$ —	\$7,358	\$7,358
Net income	—	—	715	715
Distribution to parent	—	—	(124)	(124)
Balance at December 31, 2017	\$ —	\$ —	\$7,949	\$7,949

See Notes to Consolidated Financial Statements

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PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Florida, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Florida, LLC and subsidiaries (the "Company") as of December 31, 2017 and 2016, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2017, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2017 and 2016, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2017, in conformity with the accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 21, 2018

We have served as the Company's auditor since 2001.

PART II

DUKE ENERGY FLORIDA, LLC

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2017	2016	2015
Operating Revenues	\$ 4,646	\$ 4,568	\$ 4,977
Operating Expenses			
Fuel used in electric generation and purchased power	1,808	1,814	2,195
Operation, maintenance and other	818	865	835
Depreciation and amortization	560	509	473
Property and other taxes	347	333	352
Impairment charges	138	6	7
Total operating expenses	3,671	3,527	3,862
Gains on Sales of Other Assets and Other, net	1	—	—
Operating Income	976	1,041	1,115
Other Income and Expenses, net	61	44	24
Interest Expense	279	212	198
Income Before Income Taxes	758	873	941
Income Tax Expense	46	322	342
Net Income	\$ 712	\$ 551	\$ 599
Other Comprehensive Income, net of tax			
Unrealized gains on available-for-sale securities	3	1	—
Other Comprehensive Income, net of tax	3	1	—
Comprehensive Income	\$ 715	\$ 552	\$ 599

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY FLORIDA, LLC

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2017	2016
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 13	\$ 16
Receivables (net of allowance for doubtful accounts of \$3 at 2017 and \$2 at 2016)	65	61
Receivables of VIEs (net of allowance for doubtful accounts of \$2 at 2017 and 2016)	321	288
Receivables from affiliated companies	2	5
Notes receivable from affiliated companies	313	—
Inventory	574	641
Regulatory assets (includes \$51 at 2017 and \$50 at 2016 related to VIEs)	389	213
Other (includes \$40 at 2017 and \$53 at 2016 related to VIEs)	86	125
Total current assets	1,763	1,349
Property, Plant and Equipment		
Cost	17,730	16,434
Accumulated depreciation and amortization	(4,947)	(4,644)
Net property, plant and equipment	12,783	11,790
Other Noncurrent Assets		
Regulatory assets (includes \$1,091 at 2017 and \$1,142 at 2016 related to VIEs)	2,503	2,480
Nuclear decommissioning trust funds	736	715
Other	284	278
Total other noncurrent assets	3,523	3,473
Total Assets	\$ 18,069	\$ 16,612
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 602	\$ 413
Accounts payable to affiliated companies	74	125
Notes payable to affiliated companies	—	297
Taxes accrued	34	33
Interest accrued	56	49
Current maturities of long-term debt (includes \$53 at 2017 and \$62 at 2016 related to VIEs)	768	326
Regulatory liabilities	74	31
Other	334	352
Total current liabilities	1,942	1,626
Long-Term Debt (includes \$1,389 at 2017 and \$1,442 at 2016 related to VIEs)	6,327	5,799
Other Noncurrent Liabilities		
Deferred income taxes	1,761	2,694
Asset retirement obligations	742	778
Regulatory liabilities	1,307	448
Accrued pension and other post-retirement benefit costs	264	262
Other	108	105
Total other noncurrent liabilities	4,182	4,287
Commitments and Contingencies		
Equity		
Member's equity	5,614	4,899
Accumulated other comprehensive income	4	1
Total equity	5,618	4,900
Total Liabilities and Equity	\$ 18,069	\$ 16,612

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY FLORIDA, LLC

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2017	2016	2015
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 712	\$ 551	\$ 599
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion	570	516	480
Equity component of AFUDC	(45)	(26)	(7)
Gains on sales of other assets	(1)	—	—
Impairment charges	138	6	7
Deferred income taxes	245	224	348
Accrued pension and other post-retirement benefit costs	(13)	2	5
Contributions to qualified pension plans	—	(20)	(40)
Payments for asset retirement obligations	(56)	(58)	(47)
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	5	38	(3)
Receivables	(38)	23	61
Receivables from affiliated companies	—	21	(44)
Inventory	66	23	(17)
Other current assets	(125)	(133)	116
Increase (decrease) in			
Accounts payable	(32)	71	(127)
Accounts payable to affiliated companies	(51)	9	46
Taxes accrued	1	(117)	67
Other current liabilities	(37)	(149)	57
Other assets	(229)	(84)	(84)
Other liabilities	(82)	(53)	(44)
Net cash provided by operating activities	1,028	844	1,373
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(1,437)	(1,583)	(1,029)
Purchases of available-for-sale securities	(557)	(485)	(447)
Proceeds from sales and maturities of available-for-sale securities	617	572	538
Proceeds from insurance	4	58	—
Proceeds from the sale of nuclear fuel	20	20	102
Notes receivable from affiliated companies	(313)	—	—
Change in restricted cash	—	(6)	—
Other	(31)	21	(3)
Net cash used in investing activities	(1,697)	(1,403)	(839)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	1,306	1,870	—
Payments for the redemption of long-term debt	(342)	(12)	(562)
Notes payable to affiliated companies	(297)	(516)	729
Dividends to parent	—	—	(350)
Distribution to parent	—	(775)	(350)
Other	(1)	—	(1)
Net cash provided by (used in) financing activities	666	567	(534)
Net (decrease) increase in cash and cash equivalents	(3)	8	—
Cash and cash equivalents at beginning of period	16	8	8
Cash and cash equivalents at end of period	\$ 13	\$ 16	\$ 8
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 274	\$ 208	\$ 205
Cash (received from) paid for income taxes	(197)	216	(229)
Significant non-cash transactions:			
Accrued capital expenditures	199	170	186

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY FLORIDA, LLC

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Accumulated Other Comprehensive Income				
	Common Stock	Retained Earnings	Member's Equity	Net Unrealized Gains on	
				Available-for-Sale Securities	Total Equity
Balance at December 31, 2014	\$ 1,762	\$ 3,460	\$ —	\$ —	\$ 5,222
Net income	—	351	248	—	599
Transfer to Member's Equity	(1,762)	(3,461)	5,223	—	—
Dividends to parent	—	(350)	—	—	(350)
Distribution to parent	—	—	(350)	—	(350)
Balance at December 31, 2015	\$ —	\$ —	\$ 5,121	\$ —	\$ 5,121
Net income	—	—	551	—	551
Other comprehensive income	—	—	—	1	1
Distribution to parent	—	—	(775)	—	(775)
Other	—	—	2	—	2
Balance at December 31, 2016	\$ —	\$ —	\$ 4,899	\$ 1	\$ 4,900
Net income	—	—	712	—	712
Other comprehensive income	—	—	—	3	3
Other	—	—	3	—	3
Balance at December 31, 2017	\$ —	\$ —	\$ 5,614	\$ 4	\$ 5,618

See Notes to Consolidated Financial Statements

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PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Ohio, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Ohio, Inc. and subsidiaries (the "Company") as of December 31, 2017 and 2016, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2017, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2017 and 2016, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2017, in conformity with the accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 21, 2018

We have served as the Company's auditor since 2002.

PART II

DUKE ENERGY OHIO, INC.

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2017	2016	2015
Operating Revenues			
Regulated electric	\$1,373	\$1,410	\$1,331
Nonregulated electric and other	42	31	33
Regulated natural gas	508	503	541
Total operating revenues	1,923	1,944	1,905
Operating Expenses			
Fuel used in electric generation and purchased power – regulated	369	442	446
Fuel used in electric generation and purchased power – nonregulated	58	51	47
Cost of natural gas	107	103	141
Operation, maintenance and other	524	512	495
Depreciation and amortization	261	233	227
Property and other taxes	278	258	254
Impairment charges	1	—	—
Total operating expenses	1,598	1,599	1,610
Gains on Sales of Other Assets and Other, net	1	2	8
Operating Income	326	347	303
Other Income and Expenses, net	17	9	6
Interest Expense	91	86	79
Income From Continuing Operations Before Income Taxes	252	270	230
Income Tax Expense From Continuing Operations	59	78	81
Income From Continuing Operations	193	192	149
(Loss) Income From Discontinued Operations, net of tax	(1)	36	23
Net Income and Comprehensive Income	\$ 192	\$ 228	\$ 172

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY OHIO, INC.

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2017	2016
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 12	\$ 13
Receivables (net of allowance for doubtful accounts of \$3 at 2017 and \$2 at 2016)	68	71
Receivables from affiliated companies	133	129
Notes receivable from affiliated companies	14	94
Inventory	133	137
Regulatory assets	49	37
Other	39	37
Total current assets	448	518
Property, Plant and Equipment		
Cost	8,732	8,126
Accumulated depreciation and amortization	(2,691)	(2,579)
Net property, plant and equipment	6,041	5,547
Other Noncurrent Assets		
Goodwill	920	920
Regulatory assets	445	520
Other	21	23
Total other noncurrent assets	1,386	1,463
Total Assets	\$ 7,875	\$ 7,528
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 313	\$ 282
Accounts payable to affiliated companies	62	63
Notes payable to affiliated companies	29	16
Taxes accrued	190	178
Interest accrued	21	19
Current maturities of long-term debt	3	1
Asset retirement obligations	3	—
Regulatory liabilities	36	21
Other	71	91
Total current liabilities	728	671
Long-Term Debt	2,039	1,858
Long-Term Debt Payable to Affiliated Companies	25	25
Other Noncurrent Liabilities		
Deferred income taxes	781	1,443
Asset retirement obligations	81	77
Regulatory liabilities	891	236
Accrued pension and other post-retirement benefit costs	59	56
Other	108	166
Total other noncurrent liabilities	1,920	1,978
Commitments and Contingencies		
Equity		
Common stock, \$8.50 par value, 120 million shares authorized; 90 million shares outstanding at 2017 and 2016	762	762
Additional paid-in capital	2,670	2,695
Accumulated deficit	(269)	(461)
Total equity	3,163	2,996
Total Liabilities and Equity	\$ 7,875	\$ 7,528

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY OHIO, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2017	2016	2015
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 192	\$ 228	\$ 172
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion	265	237	230
Equity component of AFUDC	(11)	(6)	(3)
Gains on sales of other assets	(1)	(2)	(8)
Impairment charges	1	—	40
Deferred income taxes	90	55	206
Accrued pension and other post-retirement benefit costs	2	6	9
Contributions to qualified pension plans	(4)	(5)	(8)
Payments for asset retirement obligations	(7)	(5)	(4)
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	—	(2)	(10)
Receivables	2	(4)	23
Receivables from affiliated companies	(4)	(36)	23
Inventory	6	(32)	—
Other current assets	(22)	79	—
Increase (decrease) in			
Accounts payable	12	19	(1)
Accounts payable to affiliated companies	(1)	10	(21)
Taxes accrued	11	3	(21)
Other current liabilities	(19)	(54)	88
Other assets	(28)	(35)	25
Other liabilities	(5)	(31)	(73)
Net cash provided by operating activities	479	425	667
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(686)	(476)	(399)
Notes receivable from affiliated companies	80	(94)	145
Other	(41)	(30)	(15)
Net cash used in investing activities	(647)	(600)	(269)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	182	341	—
Payments for the redemption of long-term debt	(2)	(53)	(157)
Notes payable to affiliated companies	13	(87)	(95)
Dividends to parent	(25)	(25)	(150)
Other	(1)	(2)	(2)
Net cash provided by (used in) financing activities	167	174	(404)
Net decrease in cash and cash equivalents	(1)	(1)	(6)
Cash and cash equivalents at beginning of period	13	14	20
Cash and cash equivalents at end of period	\$ 12	\$ 13	\$ 14
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 85	\$ 81	\$ 76
Cash (received from) paid for income taxes	(8)	(46)	410
Significant non-cash transactions:			
Accrued capital expenditures	82	83	20
Distribution of membership interest of Duke Energy SAM, LLC to parent	—	—	1,912

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY OHIO, INC.

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Common Stock	Additional Paid-in Capital	Accumulated Deficit	Total Equity
Balance at December 31, 2014	\$762	\$ 4,782	\$(870)	\$ 4,674
Net income	—	—	172	172
Dividends to parent	—	(150)	—	(150)
Distribution of membership interest of Duke Energy SAM, LLC to parent	—	(1,912)	—	(1,912)
Balance at December 31, 2015	\$762	\$ 2,720	\$(698)	\$ 2,784
Net income	—	—	228	228
Contribution from parent	—	—	9	9
Dividends to parent	—	(25)	—	(25)
Balance at December 31, 2016	\$762	\$ 2,695	\$(461)	\$ 2,996
Net income	—	—	192	192
Dividends to parent	—	(25)	—	(25)
Balance at December 31, 2017	\$762	\$ 2,670	\$(269)	\$ 3,163

See Notes to Consolidated Financial Statements

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PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Indiana, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Indiana, LLC and subsidiaries (the "Company") as of December 31, 2017 and 2016, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2017, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2017 and 2016, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2017, in conformity with the accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 21, 2018

We have served as the Company's auditor since 2002.

PART II

DUKE ENERGY INDIANA, LLC

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2017	2016	2015
Operating Revenues	\$ 3,047	\$ 2,958	\$ 2,890
Operating Expenses			
Fuel used in electric generation and purchased power	966	909	982
Operation, maintenance and other	733	723	682
Depreciation and amortization	458	496	434
Property and other taxes	76	58	61
Impairment charges	18	8	88
Total operating expenses	2,251	2,194	2,247
Gains on Sales of Other Assets and Other, net	—	1	1
Operating Income	796	765	644
Other Income and Expenses, net	37	22	11
Interest Expense	178	181	176
Income Before Income Taxes	655	606	479
Income Tax Expense	301	225	163
Net Income	\$ 354	\$ 381	\$ 316
Other Comprehensive Loss, net of tax			
Reclassification into earnings from cash flow hedges	—	(1)	(2)
Comprehensive Income	\$ 354	\$ 380	\$ 314

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY INDIANA, LLC

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2017	2016
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 9	\$ 17
Receivables (net of allowance for doubtful accounts of \$2 at 2017 and \$1 at 2016)	57	105
Receivables from affiliated companies	125	114
Notes receivable from affiliated companies	—	86
Inventory	450	504
Regulatory assets	165	149
Other	30	45
Total current assets	836	1,020
Property, Plant and Equipment		
Cost	14,948	14,241
Accumulated depreciation and amortization	(4,662)	(4,317)
Net property, plant and equipment	10,286	9,924
Other Noncurrent Assets		
Regulatory assets	978	1,073
Other	189	147
Total other noncurrent assets	1,167	1,220
Total Assets	\$ 12,289	\$ 12,164
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 196	\$ 263
Accounts payable to affiliated companies	78	74
Notes payable to affiliated companies	161	—
Taxes accrued	95	31
Interest accrued	57	61
Current maturities of long-term debt	3	3
Asset retirement obligations	54	—
Regulatory liabilities	24	40
Other	104	93
Total current liabilities	772	565
Long-Term Debt	3,630	3,633
Long-Term Debt Payable to Affiliated Companies	150	150
Other Noncurrent Liabilities		
Deferred income taxes	925	1,900
Asset retirement obligations	727	866
Regulatory liabilities	1,723	748
Accrued pension and other post-retirement benefit costs	76	71
Investment tax credits	147	137
Other	18	27
Total other noncurrent liabilities	3,616	3,749
Commitments and Contingencies		
Equity		
Member's Equity	4,121	4,067
Total Liabilities and Equity	\$ 12,289	\$ 12,164

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY INDIANA, LLC

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2017	2016	2015
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 354	\$ 381	\$ 316
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization	462	499	439
Equity component of AFUDC	(28)	(16)	(11)
Gains on sales of other assets	—	—	(1)
Impairment charges	18	8	88
Deferred income taxes	152	213	262
Accrued pension and other post-retirement benefit costs	2	8	13
Contributions to qualified pension plans	—	(9)	(19)
Payments for asset retirement obligations	(45)	(46)	(19)
(Increase) decrease in			
Receivables	59	(2)	(7)
Receivables from affiliated companies	(11)	(43)	44
Inventory	54	66	(21)
Other current assets	28	(67)	90
Increase (decrease) in			
Accounts payable	(86)	8	33
Accounts payable to affiliated companies	4	(9)	25
Taxes accrued	64	(4)	35
Other current liabilities	(10)	(81)	26
Other assets	(28)	(27)	(82)
Other liabilities	(20)	(8)	(35)
Net cash provided by operating activities	969	871	1,176
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(840)	(755)	(690)
Purchases of available-for-sale securities	(20)	(14)	(9)
Proceeds from sales and maturities of available-for-sale securities	7	11	11
Proceeds from the sales of other assets	—	—	17
Notes receivable from affiliated companies	86	(3)	(83)
Other	(65)	32	(17)
Net cash used in investing activities	(832)	(729)	(771)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	—	494	—
Payments for the redemption of long-term debt	(5)	(478)	(5)
Notes payable to affiliated companies	161	—	(71)
Dividends to parent	—	—	(326)
Distributions to parent	(300)	(149)	—
Other	(1)	(1)	—
Net cash used in financing activities	(145)	(134)	(402)
Net (decrease) increase in cash and cash equivalents	(8)	8	3
Cash and cash equivalents at beginning of period	17	9	6
Cash and cash equivalents at end of period	\$ 9	\$ 17	\$ 9
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 179	\$ 171	\$ 175
Cash paid for (received from) income taxes	117	(7)	(253)
Significant non-cash transactions:			
Accrued capital expenditures	125	99	64

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY INDIANA, LLC

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Common Stock	Additional Paid-in Capital	Retained Earnings	Accumulated Other Comprehensive Income		Total Equity
				Member's Equity	Net Gains on Cash Flow Hedges	
Balance at December 31, 2014	\$ 1	\$ 1,384	\$ 2,460	\$ —	\$ 3	\$3,848
Net income	—	—	316	—	—	316
Other comprehensive loss	—	—	—	—	(2)	(2)
Dividends to parent	—	—	(326)	—	—	(326)
Balance at December 31, 2015	\$ 1	\$ 1,384	\$ 2,450	\$ —	\$ 1	\$3,836
Net income	—	—	—	381	—	381
Other comprehensive loss	—	—	—	—	(1)	(1)
Distributions to parent	—	—	—	(149)	—	(149)
Transfer to Member's Equity	(1)	(1,384)	(2,450)	3,835	—	—
Balance at December 31, 2016	\$ —	\$ —	\$ —	\$ 4,067	\$ —	\$4,067
Net income	—	—	—	354	—	354
Distributions to parent	—	—	—	(300)	—	(300)
Balance at December 31, 2017	\$ —	\$ —	\$ —	\$ 4,121	\$ —	\$4,121

See Notes to Consolidated Financial Statements

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Piedmont Natural Gas Company, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Piedmont Natural Gas Company, Inc. and subsidiaries (the "Company") as of December 31, 2017 and 2016, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the periods ended December 31, 2017, October 31, 2016, October 31, 2015 and for the 2 months ended December 31, 2016 and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2017 and 2016, and the results of its operations and its cash flows for each of the three years in the periods ended December 31, 2017, October 31, 2016, October 31, 2015 and for the 2 months ended December 31, 2016, in conformity with the accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Emphasis of Matter

As discussed in Note 1 to the financial statements, effective for fiscal year 2016, the Company changed its fiscal year end from October 31 to December 31. This resulted in a 2-month transition period beginning November 1, 2016 through December 31, 2016.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 21, 2018

We have served as the Company's auditor since 1951.

PART II

PIEDMONT NATURAL GAS COMPANY, INC.

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

	Year Ended	Two Months Ended	Years Ended October 31,	
(in millions)	December 31, 2017	December 31, 2016	2016	2015
Operating Revenues				
Regulated natural gas	\$ 1,319	\$ 320	\$ 1,139	\$ 1,372
Nonregulated natural gas and other	9	2	10	11
Total operating revenues	1,328	322	1,149	1,383
Operating Expenses				
Cost of natural gas	524	144	391	644
Operation, maintenance and other	315	52	353	305
Depreciation and amortization	148	23	137	129
Property and other taxes	48	7	43	42
Impairment charges	7	—	—	—
Total operating expenses	1,042	226	924	1,120
Operating Income	286	96	225	263
Equity in (losses) earnings of unconsolidated affiliates	(6)	2	29	34
Gain on sale of unconsolidated affiliates	—	—	133	—
Other income and expense, net	—	—	(1)	(1)
Total other income and expenses	(6)	2	161	33
Interest Expense	79	12	69	69
Income Before Income Taxes	201	86	317	227
Income Tax Expense	62	32	124	90
Net Income	\$ 139	\$ 54	\$ 193	\$ 137
Other Comprehensive Income (Loss), net of tax				
Unrealized loss from hedging activities of equity method investments	—	—	(3)	(2)
Reclassification into earnings from hedging activities of equity method investments	—	—	4	1
Other Comprehensive Income (Loss), net of tax	—	—	1	(1)
Comprehensive Income	\$ 139	\$ 54	\$ 194	\$ 136

See Notes to Consolidated Financial Statements

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PART II

PIEDMONT NATURAL GAS COMPANY, INC.

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2017	2016
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 19	\$ 25
Receivables (net of allowance for doubtful accounts of \$2 at 2017 and \$3 at 2016)	275	232
Receivables from affiliated companies	7	7
Inventory	66	66
Regulatory assets	95	124
Other	52	21
Total current assets	514	475
Property, Plant and Equipment		
Cost	6,725	6,174
Accumulated depreciation and amortization	(1,479)	(1,360)
Net property, plant and equipment	5,246	4,814
Other Noncurrent Assets		
Goodwill	49	49
Regulatory assets	283	373
Investments in equity method unconsolidated affiliates	61	212
Other	65	21
Total other noncurrent assets	458	655
Total Assets	\$ 6,218	\$ 5,944
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 125	\$ 155
Accounts payable to affiliated companies	13	8
Notes payable and commercial paper	—	330
Notes payable to affiliated companies	364	—
Taxes accrued	19	67
Interest accrued	31	33
Current maturities of long-term debt	250	35
Regulatory liabilities	3	—
Other	69	102
Total current liabilities	874	730
Long-Term Debt		
	1,787	1,786
Other Noncurrent Liabilities		
Deferred income taxes	564	931
Asset retirement obligations	15	14
Regulatory liabilities	1,141	608
Accrued pension and other post-retirement benefit costs	5	14
Other	170	189
Total other noncurrent liabilities	1,895	1,756
Commitments and Contingencies		
Equity		
Common stock, no par value: 100 shares authorized and outstanding at 2017 and 2016	860	860
Retained earnings	802	812
Total equity	1,662	1,672
Total Liabilities and Equity	\$ 6,218	\$ 5,944

See Notes to Consolidated Financial Statements

PART II

PIEDMONT NATURAL GAS COMPANY, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS

	Year Ended	Two Months Ended	Years Ended October 31,	
(in millions)	December 31, 2017	December 31, 2016	2016	2015
CASH FLOWS FROM OPERATING ACTIVITIES				
Net income	\$ 139	\$ 54	\$ 193	\$ 137
Adjustments to reconcile net income to net cash provided by operating activities:				
Depreciation and amortization	151	25	148	140
Gains on sales of other assets	—	—	(133)	—
Impairment charges	7	—	—	—
Deferred income taxes	154	26	74	73
Equity in losses (earnings) from unconsolidated affiliates	6	(2)	(29)	(34)
Accrued pension and other post-retirement benefit costs	23	5	3	8
Contributions to qualified pension plans	(11)	(10)	(14)	(13)
Payments for asset retirement obligations	—	(1)	(6)	(6)
(Increase) decrease in				
Receivables	(40)	(157)	12	3
Receivables from affiliated companies	—	—	(7)	—
Inventory	—	(11)	14	16
Other current assets	(20)	8	(98)	46
Increase (decrease) in				
Accounts payable	(13)	35	6	(5)
Accounts payable to affiliated companies	5	4	6	—
Taxes accrued	(48)	(2)	38	4
Other current liabilities	(9)	2	28	(21)
Other assets	7	(7)	(107)	(5)
Other liabilities	(2)	5	180	29
Net cash provided by (used in) operating activities	349	(26)	308	372
CASH FLOWS FROM INVESTING ACTIVITIES				
Capital expenditures	(585)	(113)	(522)	(444)
Contributions to equity method investments	(12)	(12)	(47)	(30)
Proceeds from the sales of other assets	—	—	175	—
Other	(6)	1	21	(5)
Net cash used in investing activities	(603)	(124)	(373)	(479)
CASH FLOWS FROM FINANCING ACTIVITIES				
Proceeds from the:				
Issuance of long-term debt	250	—	295	148
Issuance of common stock	—	—	122	81
Payments for the redemption of long-term debt	(35)	—	(40)	—
Notes payable and commercial paper	(330)	185	(195)	(15)
Notes payable to affiliated companies	364	—	—	—
Dividends to parent	—	(27)	—	—
Dividends paid	—	—	(114)	(103)
Other	(1)	—	—	—
Net cash provided by financing activities	248	158	68	111
Net (decrease) increase in cash and cash equivalents	(6)	8	3	4
Cash and cash equivalents at beginning of period	25	17	14	10
Cash and cash equivalents at end of period	\$ 19	\$ 25	\$ 17	\$ 14
Supplemental Disclosures:				
Cash paid for interest, net of amount capitalized	\$ 78	\$ 11	\$ 81	\$ 72
Cash (received from) paid for income taxes	(12)	—	(25)	3
Significant non-cash transactions:				
Accrued capital expenditures	34	48	63	59
Transfer of ownership interest of certain equity method investees to parent	149	—	—	—

See Notes to Consolidated Financial Statements

PART II

PIEDMONT NATURAL GAS COMPANY, INC.

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Common Stock	Retained Earnings	Accumulated Other Comprehensive Income (Loss)	Total Equity
			Net Loss on Hedging Activities of Unconsolidated Affiliates	
Balance at October 31, 2014	\$ 637	\$ 672	\$ —	\$ 1,309
Net income	—	137	—	137
Other comprehensive loss	—	—	(1)	(1)
Common stock issuances, including dividend reinvestment and employee benefits	85	—	—	85
Expenses from issuance of common stock	(1)	—	—	(1)
Common stock dividends	—	(103)	—	(103)
Balance at October 31, 2015	\$ 721	\$ 706	\$ (1)	\$ 1,426
Net income	—	193	—	193
Other comprehensive income	—	—	1	1
Common stock issuances, including dividend reinvestment and employee benefits	139	—	—	139
Common stock dividends	—	(114)	—	(114)
Balance at October 31, 2016	\$ 860	\$ 785	\$ —	\$ 1,645
Net income	—	54	—	54
Dividends to parent	—	(27)	—	(27)
Balance at December 31, 2016	\$ 860	\$ 812	\$ —	\$ 1,672
Net income	—	139	—	139
Transfer of ownership interest of certain equity method investees to parent	—	(149)	—	(149)
Balance at December 31, 2017	\$ 860	\$ 802	\$ —	\$ 1,662

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
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Combined Notes to Consolidated Financial Statements

For the Years Ended December 31, 2017, 2016 and 2015

Index to Combined Notes to Consolidated Financial Statements

The notes to the consolidated financial statements are a combined presentation. The following table indicates the registrants to which the notes apply.

Registrant	Applicable Notes																								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Duke Energy Corporation	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Duke Energy Carolinas, LLC	•		•	•	•	•		•	•	•	•		•	•	•	•	•		•	•	•	•	•	•	•
Progress Energy, Inc.	•		•	•	•	•	•		•	•	•		•	•	•	•	•		•	•	•	•	•	•	•
Duke Energy Progress, LLC	•		•	•	•	•			•	•	•		•	•	•	•	•		•	•	•	•	•	•	•
Duke Energy Florida, LLC	•		•	•	•	•			•	•	•		•	•	•	•	•		•	•	•	•	•	•	•
Duke Energy Ohio, Inc.	•	•	•	•	•	•		•	•	•	•		•	•		•	•		•	•	•	•	•	•	•
Duke Energy Indiana, LLC	•		•	•	•	•		•	•	•	•		•	•	•	•	•		•	•	•	•	•	•	•
Piedmont Natural Gas Company, Inc.	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•

Tables within the notes may not sum across due to (i) Progress Energy's consolidation of Duke Energy Progress, Duke Energy Florida and other subsidiaries that are not registrants and (ii) subsidiaries that are not registrants but included in the consolidated Duke Energy balances.

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

NATURE OF OPERATIONS AND BASIS OF CONSOLIDATION

Duke Energy Corporation (collectively with its subsidiaries, Duke Energy) is an energy company headquartered in Charlotte, North Carolina, subject to regulation by the Federal Energy Regulatory Commission (FERC). Duke Energy operates in the United States (U.S.) primarily through its direct and indirect subsidiaries. Certain Duke Energy subsidiaries are also subsidiary registrants, including Duke Energy Carolinas, LLC (Duke Energy Carolinas); Progress Energy, Inc. (Progress Energy); Duke Energy Progress, LLC (Duke Energy Progress); Duke Energy Florida, LLC (Duke Energy Florida); Duke Energy Ohio, Inc. (Duke Energy Ohio); Duke Energy Indiana, LLC (Duke Energy Indiana) and Piedmont Natural Gas Company, Inc. (Piedmont). When discussing Duke Energy's consolidated financial information, it necessarily includes the results of its seven separate subsidiary registrants (collectively referred to as the Subsidiary Registrants), which along with Duke Energy, are collectively referred to as the Duke Energy Registrants.

In October 2016, Duke Energy completed the acquisition of Piedmont. Duke Energy's consolidated financial statements include Piedmont's results of operations and cash flows activity subsequent to the acquisition date. Effective November 1, 2016, Piedmont's fiscal year-end was changed from October 31 to December 31, the year-end of Duke Energy. A transition report was filed on Form 10-Q (Form 10-QT) as of December 31, 2016, for the transition period from November 1, 2016, to December 31, 2016. See Note 2 for additional information regarding the acquisition.

In December 2016, Duke Energy completed an exit of the Latin American market to focus on its domestic regulated business, which was further bolstered by the acquisition of Piedmont. The sale of the International Energy business segment, excluding an equity method investment in National Methanol Company (NMC), was completed through two transactions including a sale of assets in Brazil to China Three Gorges (Luxembourg) Energy S.à.r.l. (CTG) and a sale of Duke Energy's remaining Latin American assets in Peru, Chile, Ecuador, Guatemala, El Salvador and Argentina to ISQ Enerlam Aggregator, L.P. and Enerlam (UK) Holding Ltd. (I Squared) (collectively, the International Disposal Group). See Note 2 for additional information on the sale of International Energy.

The information in these combined notes relates to each of the Duke Energy Registrants as noted in the Index to Combined Notes to Consolidated Financial Statements. However, none of the Subsidiary Registrants make any representation as to information related solely to Duke Energy or the Subsidiary Registrants of Duke Energy other than itself.

These Consolidated Financial Statements include, after eliminating intercompany transactions and balances, the accounts of the Duke Energy Registrants and subsidiaries where the respective Duke Energy Registrants have control. These Consolidated Financial Statements also reflect the Duke Energy Registrants' proportionate share of certain jointly owned generation and transmission facilities. Substantially all of the Subsidiary Registrants' operations qualify for regulatory accounting.

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Carolinas is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Carolinas is subject to the regulatory provisions of the North Carolina Utilities Commission (NCUC), Public Service Commission of South Carolina (PSCSC), U.S. Nuclear Regulatory Commission (NRC) and FERC.

Progress Energy is a public utility holding company headquartered in Raleigh, North Carolina, subject to regulation by FERC. Progress Energy conducts operations through its wholly owned subsidiaries, Duke Energy Progress and Duke Energy Florida.

Duke Energy Progress is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Progress is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Duke Energy Florida is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Florida. Duke Energy Florida is subject to the regulatory provisions of the Florida Public Service Commission (FPSC), NRC and FERC.

Duke Energy Ohio is a regulated public utility primarily engaged in the transmission and distribution of electricity in portions of Ohio and Kentucky, the generation and sale of electricity in portions of Kentucky and the transportation and sale of natural gas in portions of Ohio and Kentucky. Duke Energy Ohio conducts competitive auctions for retail electricity supply in Ohio whereby the energy price is recovered from retail customers and recorded in Operating Revenues on the Consolidated Statements of Operations and Comprehensive Income. Operations in Kentucky are conducted through its wholly owned subsidiary, Duke Energy Kentucky, Inc. (Duke Energy Kentucky). References herein to Duke Energy Ohio collectively include Duke Energy Ohio and its subsidiaries, unless otherwise noted. Duke Energy Ohio is subject to the regulatory provisions of the Public Utilities Commission of Ohio (PUCO), Kentucky Public Service Commission (KPSC) and FERC. On April 2, 2015, Duke Energy completed the sale of its nonregulated Midwest generation business, which sold power into wholesale energy markets, to a subsidiary of Dynegy Inc. (Dynegy). For further information about the sale of the Midwest Generation business, refer to Note 2. Substantially all of Duke Energy Ohio's operations that remain after the sale qualify for regulatory accounting.

Duke Energy Indiana is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Indiana. Duke Energy Indiana is subject to the regulatory provisions of the Indiana Utility Regulatory Commission (IURC) and FERC.

Piedmont is a regulated public utility primarily engaged in the distribution of natural gas in portions of North Carolina, South Carolina and Tennessee. Piedmont is subject to the regulatory provisions of the NCUC, PSCSC, Tennessee Public Utility Commission (TPUC) and FERC.

Certain prior year amounts have been reclassified to conform to the current year presentation.

Other Current Assets and Liabilities

The following table provides a description of amounts included in Other within Current Assets or Current Liabilities that exceed 5 percent of total Current Assets or Current Liabilities on the Duke Energy Registrants' Consolidated Balance Sheets at either December 31, 2017, or 2016.

(in millions)	Location	December 31,	
		2017	2016
Duke Energy			
Accrued compensation	Current Liabilities	\$ 757	\$ 765
Duke Energy Carolinas			
Accrued compensation	Current Liabilities	\$ 252	\$ 248
Customer deposits	Current Liabilities	121	155
Progress Energy			
Income taxes receivable	Current Assets	\$ 278	\$ 19
Customer deposits	Current Liabilities	338	363
Duke Energy Progress			
Customer deposits	Current Liabilities	\$ 129	\$ 141
Accrued compensation	Current Liabilities	132	135
Duke Energy Florida			
Customer deposits	Current Liabilities	\$ 208	\$ 222
Duke Energy Ohio			
Income taxes receivable	Current Assets	\$ 36	\$ 16
Customer deposits	Current Liabilities	46	62
Duke Energy Indiana			
Customer deposits	Current Liabilities	\$ 45	\$ 44
Piedmont			
Income taxes receivable	Current Assets	\$ 43	\$ 9

Discontinued Operations

The results of operations of the International Disposal Group as well as Duke Energy Ohio's nonregulated Midwest Generation business and Duke Energy Retail Sales, LLC (collectively, Midwest Generation Disposal Group) have been classified as Discontinued Operations on Duke Energy's Consolidated Statements of Operations. Duke Energy has elected to present cash flows of discontinued operations combined with cash flows of continuing operations. Unless otherwise noted, the notes to these consolidated financial statements exclude amounts related to discontinued operations for all periods presented. See Note 2 for additional information.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
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Combined Notes to Consolidated Financial Statements – (Continued)

Amounts Attributable to Controlling Interests

For the year ended December 31, 2017, the Loss From Discontinued Operations, net of tax on Duke Energy's Consolidated Statement of Operations is entirely attributable to controlling interest. The following table presents Net Income Attributable to Duke Energy Corporation for continuing operations and discontinued operations for the years ended December 31, 2016, and 2015.

(in millions)	Year ended December 31,	
	2016	2015
Income from Continuing Operations	\$ 2,578	\$ 2,654
Income from Continuing Operations Attributable to Noncontrolling Interests	7	9
Income from Continuing Operations Attributable to Duke Energy Corporation	\$ 2,571	\$ 2,645
(Loss) Income From Discontinued Operations, net of tax	\$ (408)	\$ 177
Income from Discontinued Operations Attributable to Noncontrolling Interests, net of tax	11	6
(Loss) Income From Discontinued Operations Attributable to Duke Energy Corporation, net of tax	\$ (419)	\$ 171
Net Income	\$ 2,170	\$ 2,831
Net Income Attributable to Noncontrolling Interests	18	15
Net Income Attributable to Duke Energy Corporation	\$ 2,152	\$ 2,816

SIGNIFICANT ACCOUNTING POLICIES

Use of Estimates

In preparing financial statements that conform to generally accepted accounting principles (GAAP) in the U.S., the Duke Energy Registrants must make estimates and assumptions that affect the reported amounts of assets and liabilities, the reported amounts of revenues and expenses and the disclosure of contingent assets and liabilities at the date of the financial statements. Actual results could differ from those estimates.

Regulatory Accounting

The majority of the Duke Energy Registrants' operations are subject to price regulation for the sale of electricity and natural gas by state utility commissions or FERC. When prices are set on the basis of specific costs of the regulated operations and an effective franchise is in place such that sufficient natural gas or electric services can be sold to recover those costs, the Duke Energy Registrants apply regulatory accounting. Regulatory accounting changes the timing of the recognition of costs or revenues relative to a company that does not apply regulatory accounting. As a result, regulatory assets and regulatory liabilities are recognized on the Consolidated Balance Sheets. Regulatory assets and liabilities are amortized consistent with the treatment of the related cost in the ratemaking process. See Note 4 for further information.

Regulatory accounting rules also require recognition of a disallowance (also called "impairment") loss if it becomes probable that part of the cost of a plant under construction (or a recently completed plant or an abandoned plant) will be disallowed for ratemaking purposes and a reasonable estimate of the amount of the disallowance can be made. These disallowances can require judgments on allowed future rate recovery.

When it becomes probable that regulated generation, transmission or distribution assets will be abandoned, the cost of the asset is removed from plant in service. The value that may be retained as a regulatory asset on the

balance sheet for the abandoned property is dependent upon amounts that may be recovered through regulated rates, including any return. As such, an impairment charge could be partially or fully offset by the establishment of a regulatory asset if rate recovery is probable. The impairment for a disallowance of costs for regulated plants under construction, recently completed or abandoned is based on discounted cash flows.

Regulated Fuel and Purchased Gas Adjustment Clauses

The Duke Energy Registrants utilize cost-tracking mechanisms, commonly referred to as fuel adjustment clauses or purchased gas adjustment clauses (PGA). These clauses allow for the recovery of fuel and fuel-related costs, portions of purchased power, natural gas costs and hedging costs through surcharges on customer rates. The difference between the costs incurred and the surcharge revenues is recorded either as an adjustment to Operating Revenues, Operating Expenses – Fuel used in electric generation or Operating Expenses – Cost of natural gas on the Consolidated Statements of Operations, with an off-setting impact on regulatory assets or liabilities.

Cash and Cash Equivalents

All highly liquid investments with maturities of three months or less at the date of acquisition are considered cash equivalents.

Restricted Cash

The Duke Energy Registrants have restricted cash related primarily to collateral assets, escrow deposits and variable interest entities (VIEs). Restricted cash balances are reflected in Other within Current Assets and in Other within Other Noncurrent Assets on the Consolidated Balance Sheets. At December 31, 2017, and 2016, Duke Energy had restricted cash totaling \$147 million and \$137 million, respectively.

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Combined Notes to Consolidated Financial Statements – (Continued)

Inventory

Inventory is used for operations and is recorded primarily using the average cost method. Inventory related to regulated operations is valued at historical cost. Inventory related to nonregulated operations is valued at the lower of cost or market. Materials and supplies are recorded as inventory when purchased and subsequently charged to expense or capitalized to property, plant and equipment when installed. Inventory, including excess or obsolete inventory, is written-down to the lower of cost or market value. Once inventory has been written-down, it creates a new cost basis for the inventory that is not subsequently written-up. Provisions for inventory write-offs were not material at December 31, 2017, and 2016. The components of inventory are presented in the tables below.

December 31, 2017								
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Materials and supplies	\$ 2,293	\$ 744	\$ 1,118	\$ 774	\$ 343	\$ 82	\$ 309	\$ 2
Coal	603	192	255	139	116	17	139	—
Natural gas, oil and other	354	35	219	104	115	34	2	64
Total inventory	\$ 3,250	\$ 971	\$ 1,592	\$ 1,017	\$ 574	\$ 133	\$ 450	\$ 66

December 31, 2016								
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Materials and supplies	\$ 2,374	\$ 767	\$ 1,167	\$ 813	\$ 354	\$ 84	\$ 312	\$ 1
Coal	774	251	314	148	166	19	190	—
Natural gas, oil and other	374	37	236	115	121	34	2	65
Total inventory	\$ 3,522	\$ 1,055	\$ 1,717	\$ 1,076	\$ 641	\$ 137	\$ 504	\$ 66

Investments in Debt and Equity Securities

The Duke Energy Registrants classify investments into two categories — trading and available-for-sale. Both categories are recorded at fair value on the Consolidated Balance Sheets. Realized and unrealized gains and losses on trading securities are included in earnings. For certain investments of regulated operations, such as substantially all of the Nuclear Decommissioning Trust Funds (NDTF), realized and unrealized gains and losses (including any other-than-temporary impairments (OTTIs)) on available-for-sale securities are recorded as a regulatory asset or liability. Otherwise, unrealized gains and losses are included in Accumulated Other Comprehensive Income (AOCI), unless other-than-temporarily impaired. OTTIs for equity securities and the credit loss portion of debt securities of nonregulated operations are included in earnings. Investments in debt and equity securities are classified as either current or noncurrent based on management's intent and ability to sell these securities, taking into consideration current market liquidity. See Note 15 for further information.

Goodwill and Intangible Assets

Goodwill

Effective with Piedmont's change in fiscal year end to December 31, as discussed above, Piedmont changed the date of its annual impairment testing of goodwill from October 31 to August 31 to align with the other Duke Energy Registrants.

Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont perform annual goodwill impairment tests as of August 31 each year at the reporting unit level, which is determined to be an operating segment or one level below. Duke

Energy, Progress Energy, Duke Energy Ohio and Piedmont update these tests between annual tests if events or circumstances occur that would more likely than not reduce the fair value of a reporting unit below its carrying value.

Intangible Assets

Intangible assets are included in Other in Other Noncurrent Assets on the Consolidated Balance Sheets. Generally, intangible assets are amortized using an amortization method that reflects the pattern in which the economic benefits of the intangible asset are consumed or on a straight-line basis if that pattern is not readily determinable. Amortization of intangibles is reflected in Depreciation and amortization on the Consolidated Statements of Operations. Intangible assets are subject to impairment testing and if impaired, the carrying value is accordingly reduced.

Emission allowances permit the holder of the allowance to emit certain gaseous byproducts of fossil fuel combustion, including sulfur dioxide (SO₂) and nitrogen oxide (NO_x). Allowances are issued by the U.S. Environmental Protection Agency (EPA) at zero cost and may also be bought and sold via third-party transactions. Allowances allocated to or acquired by the Duke Energy Registrants are held primarily for consumption. Carrying amounts for emission allowances are based on the cost to acquire the allowances or, in the case of a business combination, on the fair value assigned in the allocation of the purchase price of the acquired business. Emission allowances are expensed to Fuel used in electric generation and purchased power on the Consolidated Statements of Operations.

Renewable energy certificates are used to measure compliance with renewable energy standards and are held primarily for consumption. See Note 11 for further information.

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Combined Notes to Consolidated Financial Statements – (Continued)

Long-Lived Asset Impairments

The Duke Energy Registrants evaluate long-lived assets, excluding goodwill, for impairment when circumstances indicate the carrying value of those assets may not be recoverable. An impairment exists when a long-lived asset's carrying value exceeds the estimated undiscounted cash flows expected to result from the use and eventual disposition of the asset. The estimated cash flows may be based on alternative expected outcomes that are probability weighted. If the carrying value of the long-lived asset is not recoverable based on these estimated future undiscounted cash flows, the carrying value of the asset is written-down to its then-current estimated fair value and an impairment charge is recognized.

The Duke Energy Registrants assess fair value of long-lived assets using various methods, including recent comparable third-party sales, internally developed discounted cash flow analysis and analysis from outside advisors. Triggering events to reassess cash flows may include, but are not limited to, significant changes in commodity prices, the condition of an asset or management's interest in selling the asset.

Property, Plant and Equipment

Property, plant and equipment are stated at the lower of depreciated historical cost net of any disallowances or fair value, if impaired. The Duke Energy Registrants capitalize all construction-related direct labor and material costs, as well as indirect construction costs such as general engineering, taxes and financing costs. See "Allowance for Funds Used During Construction (AFUDC) and Interest Capitalized" for information on capitalized financing costs. Costs of renewals and betterments that extend the useful life of property, plant and equipment are also capitalized. The cost of repairs, replacements and major maintenance projects, which do not extend the useful life or increase the expected output of the asset, are expensed as incurred. Depreciation is generally computed over the estimated useful life of the asset using the composite straight-line method. Depreciation studies are conducted periodically to update composite rates and are approved by state utility commissions and/or the FERC when required. The composite weighted average depreciation rates, excluding nuclear fuel, are included in the table that follows.

	Years Ended December 31,		
	2017	2016	2015
Duke Energy	2.8%	2.8%	2.9%
Duke Energy Carolinas	2.8%	2.8%	2.8%
Progress Energy	2.6%	2.7%	2.6%
Duke Energy Progress	2.6%	2.6%	2.6%
Duke Energy Florida	2.8%	2.8%	2.7%
Duke Energy Ohio	2.8%	2.6%	2.7%
Duke Energy Indiana	3.0%	3.1%	3.0%
Piedmont ^(a)	2.3%		

(a) Piedmont's weighted average depreciation rate was 2.4 percent, 2.4 percent, and 2.5 percent for the annualized two months ended December 31, 2016 and for the years ended October 31, 2016 and 2015, respectively.

In general, when the Duke Energy Registrants retire regulated property, plant and equipment, the original cost plus the cost of retirement, less salvage value, is charged to accumulated depreciation. However, when it becomes

probable the asset will be retired substantially in advance of its original expected useful life or is abandoned, the cost of the asset and the corresponding accumulated depreciation is recognized as a separate asset. If the asset is still in operation, the net amount is classified as Generation facilities to be retired, net on the Consolidated Balance Sheets. If the asset is no longer operating, the net amount is classified in Regulatory assets on the Consolidated Balance Sheets if deemed recoverable (see discussion of long-lived asset impairments above). When it becomes probable an asset will be abandoned, the cost of the asset and accumulated depreciation is reclassified to Regulatory assets on the Consolidated Balance Sheets for amounts recoverable in rates. The carrying value of the asset is based on historical cost if the Duke Energy Registrants are allowed to recover the remaining net book value and a return equal to at least the incremental borrowing rate. If not, an impairment is recognized to the extent the net book value of the asset exceeds the present value of future revenues discounted at the incremental borrowing rate.

When the Duke Energy Registrants sell entire regulated operating units, or retire or sell nonregulated properties, the original cost and accumulated depreciation and amortization balances are removed from Property, Plant and Equipment on the Consolidated Balance Sheets. Any gain or loss is recorded in earnings, unless otherwise required by the applicable regulatory body.

See Note 10 for further information.

Nuclear Fuel

Nuclear fuel is classified as Property, Plant and Equipment on the Consolidated Balance Sheets, except for Duke Energy Florida. Nuclear fuel amounts at Duke Energy Florida were reclassified to Regulatory assets pursuant to the Revised and Restated Stipulation and Settlement Agreement approved in November 2013 among Duke Energy Florida, the Florida Office of Public Counsel (Florida OPC) and other customer advocates (the 2013 Settlement).

Nuclear fuel in the front-end fuel processing phase is considered work in progress and not amortized until placed in service. Amortization of nuclear fuel is included within Fuel used in electric generation and purchased power on the Consolidated Statements of Operations. Amortization is recorded using the units-of-production method.

Allowance for Funds Used During Construction and Interest Capitalized

For regulated operations, the debt and equity costs of financing the construction of property, plant and equipment are reflected as AFUDC and capitalized as a component of the cost of property, plant and equipment. AFUDC equity is reported on the Consolidated Statements of Operations as non-cash income in Other income and expenses, net. AFUDC debt is reported as a non-cash offset to Interest Expense. After construction is completed, the Duke Energy Registrants are permitted to recover these costs through their inclusion in rate base and the corresponding subsequent depreciation or amortization of those regulated assets.

AFUDC equity, a permanent difference for income taxes, reduces the effective tax rate (ETR) when capitalized and increases the ETR when depreciated or amortized. See Note 22 for additional information.

For nonregulated operations, interest is capitalized during the construction phase with an offsetting non-cash credit to Interest Expense on the Consolidated Statements of Operations.

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

Asset Retirement Obligations

Asset retirement obligations (AROs) are recognized for legal obligations associated with the retirement of property, plant and equipment. Substantially all AROs are related to regulated operations. When recording an ARO, the present value of the projected liability is recognized in the period in which it is incurred, if a reasonable estimate of fair value can be made. The liability is accreted over time. For operating plants, the present value of the liability is added to the cost of the associated asset and depreciated over the remaining life of the asset. For retired plants, the present value of the liability is recorded as a regulatory asset unless determined not to be recoverable.

The present value of the initial obligation and subsequent updates are based on discounted cash flows, which include estimates regarding timing of future cash flows, selection of discount rates and cost escalation rates, among other factors. These estimates are subject to change. Depreciation expense is adjusted prospectively for any changes to the carrying amount of the associated asset. The Duke Energy Registrants receive amounts to fund the cost of the ARO for regulated operations through a combination of regulated revenues and earnings on the NDTF. As a result, amounts recovered in regulated revenues, earnings on the NDTF, accretion expense and depreciation of the associated asset are netted and deferred as a regulatory asset or liability.

Obligations for nuclear decommissioning are based on site-specific cost studies. Duke Energy Carolinas and Duke Energy Progress assume prompt dismantlement of the nuclear facilities after operations are ceased. Duke Energy Florida assumes Crystal River Unit 3 Nuclear Plant (Crystal River Unit 3) will be placed into a safe storage configuration until eventual dismantlement is completed by 2074. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida also assume that spent fuel will be stored on-site until such time that it can be transferred to a yet to be built U.S. Department of Energy (DOE) facility.

Obligations for closure of ash basins are based upon discounted cash flows of estimated costs for site-specific plans, if known, or probability weightings of the potential closure methods if the closure plans are under development and multiple closure options are being considered and evaluated on a site-by-site basis. See Note 9 for additional information.

Revenue Recognition and Unbilled Revenue

Revenues on sales of electricity and natural gas are recognized when service is provided or the product is delivered. Unbilled revenues are recognized by applying customer billing rates to the estimated volumes of energy or natural gas delivered but not yet billed. Unbilled revenues can vary significantly from period to period as a result of seasonality, weather, customer usage patterns, customer mix, average price in effect for customer classes, timing of rendering customer bills and meter reading schedules, and the impact of weather normalization or margin decoupling mechanisms.

Unbilled revenues are included within Receivables and Receivables of VIEs on the Consolidated Balance Sheets as shown in the following table.

	December 31,	
(in millions)	2017	2016
Duke Energy	\$ 944	\$ 831
Duke Energy Carolinas	342	313
Progress Energy	228	161
Duke Energy Progress	143	102
Duke Energy Florida	85	59
Duke Energy Ohio	4	2
Duke Energy Indiana	21	32
Piedmont	86	77

Additionally, Duke Energy Ohio and Duke Energy Indiana sell, on a revolving basis, nearly all of their retail accounts receivable, including receivables for unbilled revenues, to an affiliate, Cinergy Receivables Company LLC (CRC) and account for the transfers of receivables as sales. Accordingly, the receivables sold are not reflected on the Consolidated Balance Sheets of Duke Energy Ohio and Duke Energy Indiana. See Note 17 for further information. These receivables for unbilled revenues are shown in the table below.

	December 31,	
(in millions)	2017	2016
Duke Energy Ohio	\$ 104	\$ 97
Duke Energy Indiana	132	123

Allowance for Doubtful Accounts

Allowances for doubtful accounts are presented in the following table.

	December 31,		
(in millions)	2017	2016	2015
Allowance for Doubtful Accounts			
Duke Energy	\$ 14	\$ 14	\$ 12
Duke Energy Carolinas	2	2	3
Progress Energy	4	6	6
Duke Energy Progress	1	4	4
Duke Energy Florida	3	2	2
Duke Energy Ohio	3	2	2
Duke Energy Indiana	2	1	1
Piedmont ^(a)	2	3	
Allowance for Doubtful Accounts – VIEs			
Duke Energy	\$ 54	\$ 54	\$ 53
Duke Energy Carolinas	7	7	7
Progress Energy	7	7	8
Duke Energy Progress	5	5	5
Duke Energy Florida	2	2	3

(a) Piedmont's allowance for doubtful accounts was \$2 million as of October 31, 2016, and 2015.

Derivatives and Hedging

Derivative and non-derivative instruments may be used in connection with commodity price and interest rate activities, including swaps, futures, forwards and options. All derivative instruments, except those that qualify for the normal purchase/normal sale (NPNS) exception, are recorded on the Consolidated Balance Sheets at fair value. Qualifying derivative instruments may be designated as either cash flow hedges or fair value hedges. Other derivative instruments (undesignated contracts) either have not been designated or do not qualify as hedges. The effective portion of the change in the fair value of cash flow hedges is recorded in AOCI. The effective portion of the change in the fair value of a fair value hedge is offset in net income by changes in the hedged item. For activity subject to regulatory accounting, gains and losses on derivative contracts are reflected as regulatory assets or liabilities and not as other comprehensive income or current period income. As a result, changes in fair value of these derivatives have no immediate earnings impact.

Formal documentation, including transaction type and risk management strategy, is maintained for all contracts accounted for as a hedge. At inception and at least every three months thereafter, the hedge contract is assessed to see if it is highly effective in offsetting changes in cash flows or fair values of hedged items.

See Note 14 for further information.

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

Captive Insurance Reserves

Duke Energy has captive insurance subsidiaries that provide coverage, on an indemnity basis, to the Subsidiary Registrants as well as certain third parties, on a limited basis, for financial losses, primarily related to property, workers' compensation and general liability. Liabilities include provisions for estimated losses incurred but not yet reported (IBNR), as well as estimated provisions for known claims. IBNR reserve estimates are primarily based upon historical loss experience, industry data and other actuarial assumptions. Reserve estimates are adjusted in future periods as actual losses differ from experience.

Duke Energy, through its captive insurance entities, also has reinsurance coverage with third parties for certain losses above a per occurrence and/or aggregate retention. Receivables for reinsurance coverage are recognized when realization is deemed probable.

Unamortized Debt Premium, Discount and Expense

Premiums, discounts and expenses incurred with the issuance of outstanding long-term debt are amortized over the term of the debt issue. The gain or loss on extinguishment associated with refinancing higher-cost debt obligations in the regulated operations is amortized. Amortization expense is recorded as Interest Expense in the Consolidated Statements of Operations and is reflected as Depreciation, amortization and accretion within Net cash provided by operating activities on the Consolidated Statements of Cash Flows.

Premiums, discounts and expenses are presented as an adjustment to the carrying value of the debt amount and included in Long-Term Debt on the Consolidated Balance Sheets presented.

Loss Contingencies and Environmental Liabilities

Contingent losses are recorded when it is probable a loss has occurred and can be reasonably estimated. When a range of the probable loss exists and no amount within the range is a better estimate than any other amount, the minimum amount in the range is recorded. Unless otherwise required by GAAP, legal fees are expensed as incurred.

Environmental liabilities are recorded on an undiscounted basis when environmental remediation or other liabilities become probable and can be reasonably estimated. Environmental expenditures related to past operations that do not generate current or future revenues are expensed. Environmental expenditures related to operations that generate current or future revenues are expensed or capitalized, as appropriate. Certain environmental expenditures receive regulatory accounting treatment and are recorded as regulatory assets.

See Notes 4 and 5 for further information.

Pension and Other Post-Retirement Benefit Plans

Duke Energy maintains qualified, non-qualified and other post-retirement benefit plans. Eligible employees of the Subsidiary Registrants participate in the respective qualified, non-qualified and other post-retirement benefit plans and the Subsidiary Registrants are allocated their proportionate share of benefit costs. See Note 21 for further information, including significant accounting policies associated with these plans.

Severance and Special Termination Benefits

Duke Energy has severance plans under which, in general, the longer a terminated employee worked prior to termination the greater the amount

of severance benefits. A liability for involuntary severance is recorded once an involuntary severance plan is committed to by management if involuntary severances are probable and can be reasonably estimated. For involuntary severance benefits incremental to its ongoing severance plan benefits, the fair value of the obligation is expensed at the communication date if there are no future service requirements or over the required future service period. From time to time, Duke Energy offers special termination benefits under voluntary severance programs. Special termination benefits are recorded immediately upon employee acceptance absent a significant retention period. Otherwise, the cost is recorded over the remaining service period. Employee acceptance of voluntary severance benefits is determined by management based on the facts and circumstances of the benefits being offered. See Note 19 for further information.

Guarantees

If necessary, liabilities are recognized at the time of issuance or material modification of a guarantee for the estimated fair value of the obligation it assumes. Fair value is estimated using a probability-weighted approach. The obligation is reduced over the term of the guarantee or related contract in a systematic and rational method as risk is reduced. Any additional contingent loss for guarantee contracts subsequent to the initial recognition of a liability is accounted for and recognized at the time a loss is probable and can be reasonably estimated. See Note 7 for further information.

Stock-Based Compensation

Stock-based compensation represents costs related to stock-based awards granted to employees and Duke Energy Board of Directors (Board of Directors) members. Duke Energy recognizes stock-based compensation based upon the estimated fair value of awards, net of estimated forfeitures at the date of issuance. The recognition period for these costs begins at either the applicable service inception date or grant date and continues throughout the requisite service period. Compensation cost is recognized as expense or capitalized as a component of property, plant and equipment. See Note 20 for further information.

Income Taxes

Duke Energy and its subsidiaries file a consolidated federal income tax return and other state and foreign jurisdictional returns. The Subsidiary Registrants are parties to a tax-sharing agreement with Duke Energy. Income taxes recorded represent amounts the Subsidiary Registrants would incur as separate C-Corporations. Deferred income taxes have been provided for temporary differences between GAAP and tax bases of assets and liabilities because the differences create taxable or tax-deductible amounts for future periods. Investment tax credits (ITCs) associated with regulated operations are deferred and amortized as a reduction of income tax expense over the estimated useful lives of the related properties.

Accumulated deferred income taxes are valued using the enacted tax rate expected to apply to taxable income in the periods in which the deferred tax asset or liability is expected to be settled or realized. In the event of a change in tax rates, deferred tax assets and liabilities are remeasured as of the enactment date of the new rate. To the extent that the change in the value of the deferred tax represents an obligation to customers, the impact of the remeasurement is deferred to a regulatory liability. Remaining impacts are recorded in income from continuing operations. Other impacts of the Tax Act have been recorded on

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Combined Notes to Consolidated Financial Statements – (Continued)

a provisional basis, see Note 22, “Income Taxes,” for additional information. If Duke Energy’s estimate of the tax effect of reversing temporary differences is not reflective of actual outcomes, is modified to reflect new developments or interpretations of the tax law, revised to incorporate new accounting principles, or changes in the expected timing or manner of the reversal then Duke Energy’s results of operations could be impacted.

Tax-related interest and penalties are recorded in Interest Expense and Other Income and Expenses, net in the Consolidated Statements of Operations. See Note 22 for further information.

Accounting for Renewable Energy Tax Credits

When Duke Energy receives ITCs on wind or solar facilities, it reduces the basis of the property recorded on the Consolidated Balance Sheets by the amount of the ITC and, therefore, the ITC benefit is ultimately recognized in the statement of operations through reduced depreciation expense. Additionally, certain tax credits and government grants result in an initial tax depreciable base in excess of the book carrying value by an amount equal to one half of the ITC. Deferred tax benefits are recorded as a reduction to income tax expense in the period that the basis difference is created.

Excise Taxes

Certain excise taxes levied by state or local governments are required to be paid even if not collected from the customer. These taxes are recognized on a gross basis. Otherwise, the taxes are accounted for net. Excise taxes accounted for on a gross basis within both Operating Revenues and Property and other taxes in the Consolidated Statements of Operations were as follows.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Duke Energy	\$ 376	\$ 362	\$ 396
Duke Energy Carolinas	36	31	31
Progress Energy	220	213	229
Duke Energy Progress	19	18	16
Duke Energy Florida	201	195	213
Duke Energy Ohio	98	100	102
Duke Energy Indiana	20	17	34
Piedmont ^(a)	2		

(a) Piedmont’s excise taxes were immaterial for the two months ended December 31, 2016, and \$2 million for the years ended October 31, 2016, and 2015.

Dividend Restrictions and Unappropriated Retained Earnings

Duke Energy does not have any legal, regulatory or other restrictions on paying common stock dividends to shareholders. However, as further described in Note 4, due to conditions established by regulators in conjunction with merger transaction approvals, Duke Energy Carolinas, Duke Energy Progress, Duke Energy Ohio, Duke Energy Indiana and Piedmont have restrictions on paying dividends or otherwise advancing funds to Duke Energy. At December 31, 2017, and 2016, an insignificant amount of Duke Energy’s consolidated Retained earnings balance represents undistributed earnings of equity method investments.

NEW ACCOUNTING STANDARDS

The new accounting standards adopted for 2017 and 2016 had no material impact on the presentation or results of operations, cash flows or financial position of the Duke Energy Registrants. The following accounting standards were adopted by the Duke Energy Registrants during 2017.

Stock-Based Compensation and Income Taxes. In first quarter 2017, Duke Energy adopted Financial Accounting Standards Board (FASB) guidance, which revised the accounting for stock-based compensation and the associated income taxes. The adopted guidance changed certain aspects of accounting for stock-based payment awards to employees including the accounting for income taxes and classification on the Consolidated Statements of Cash Flows. The primary impact to Duke Energy as a result of implementing this guidance was a cumulative-effect adjustment to retained earnings for tax benefits not previously recognized and additional income tax expense for the 12 months ended December 31, 2017. See the Duke Energy Consolidated Statements of Changes in Equity for further information.

Goodwill Impairment. In January 2017, the FASB issued revised guidance for the subsequent measurement of goodwill. Under the guidance, a company will recognize an impairment to goodwill for the amount by which a reporting unit’s carrying value exceeds the reporting unit’s fair value, not to exceed the amount of goodwill allocated to that reporting unit. Duke Energy early adopted this guidance for the 2017 annual goodwill impairment test.

The following new accounting standards have been issued, but have not yet been adopted by the Duke Energy Registrants, as of December 31, 2017.

Revenue from Contracts with Customers. In May 2014, the FASB issued revised accounting guidance for revenue recognition from contracts with customers. The core principle of this guidance is that an entity should recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. The amendments in this update also require disclosure of sufficient information to allow users to understand the nature, amount, timing and uncertainty of revenue and cash flows arising from contracts with customers.

Duke Energy has identified material revenue streams, which served as the basis for accounting analysis and documentation of the impact of this guidance on revenue recognition. The accounting analysis included reviewing representative contracts and tariffs for each material revenue stream. Most of Duke Energy’s revenue will be in scope of the new guidance. The majority of our sales, including energy provided to residential customers, are from tariff offerings that provide natural gas or electricity without a defined contractual term (“at-will”). For such arrangements, revenue from contracts with customers will be equivalent to the electricity or natural gas supplied and billed in that period (including estimated billings). As such, there will not be a significant shift in the timing or pattern of revenue recognition for such sales.

Also included in the accounting analysis was the evaluation of certain long-term revenue streams including electric wholesale contracts and renewables power purchase agreements (PPAs). For such arrangements, Duke Energy does not expect material changes to the pattern of revenue recognition on the registrants. In addition, Duke Energy has monitored the activities of the power and utilities industry revenue recognition task force including draft accounting positions released in October 2017 and the impact, if any, on Duke Energy’s specific contracts and conclusions. Potential revisions to processes, policies and controls, primarily related to evaluating supplemental disclosures required as a result of adopting this guidance, will be evaluated and implemented as necessary. Some revenue arrangements, such as alternative revenue programs and certain PPAs accounted for as leases, are excluded

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Combined Notes to Consolidated Financial Statements – (Continued)

from the scope of the new revenue recognition guidance and, therefore, will be accounted for and evaluated for separate presentation and disclosure under other relevant accounting guidance.

Duke Energy intends to use the modified retrospective method of adoption effective January 1, 2018. Under the modified retrospective method of adoption, prior year reported results are not restated and a cumulative-effect adjustment, if applicable, is recorded to retained earnings at January 1, 2018, as if the standard had always been in effect. In addition, disclosures, if applicable, include a comparison to what would have been reported for 2018 under the previous revenue recognition rules to assist financial statement users in understanding how revenue recognition has changed as a result of this standard and to facilitate comparability with prior year reported results, which are not restated under the modified retrospective approach as described above. Duke Energy will utilize certain practical expedients including applying this guidance to open contracts at the date of adoption and recognizing revenues for certain contracts under the invoice practical expedient, which allows revenue recognition to be consistent with invoiced amounts (including estimated billings) provided certain criteria are met, including consideration of whether the invoiced amounts reasonably represent the value provided to customers. While the adoption of this guidance is not expected to have a material impact on either the timing or amount of revenues recognized in Duke Energy's financial statements, Duke Energy anticipates additional disclosures around the nature, amount, timing and uncertainty of our revenues and cash flows arising from contracts with customers. Duke Energy continues to evaluate what information will be most useful for users of the financial statements, including information already provided in disclosures outside of the financial statement footnotes. These additional disclosures are expected to include the disaggregation of revenues by customer class.

Financial Instruments Classification and Measurement. In January 2016, the FASB issued revised accounting guidance for the classification and measurement of financial instruments. Changes in the fair value of all equity securities will be required to be recorded in net income. Current GAAP allows some changes in fair value for available-for-sale equity securities to be recorded in AOCI. Additional disclosures will be required to present separately the financial assets and financial liabilities by measurement category and form of financial asset. An entity's equity investments that are accounted for under the equity method of accounting are not included within the scope of the new guidance.

For Duke Energy, the revised accounting guidance is effective for interim and annual periods beginning January 1, 2018, by recording a cumulative effect adjustment to retained earnings as of January 1, 2018. This guidance is expected to have minimal impact on the Duke Energy Registrant's Consolidated Statements of Operations and Comprehensive Income as changes in the fair value of most of the Duke Energy Registrants' available-for-sale equity securities are deferred as regulatory assets or liabilities pursuant to accounting guidance for regulated operations.

Leases. In February 2016, the FASB issued revised accounting guidance for leases. The core principle of this guidance is that a lessee should recognize the assets and liabilities that arise from leases on the balance sheet.

For Duke Energy, this guidance is effective for interim and annual periods beginning January 1, 2019. The guidance is applied using a modified retrospective approach. Upon adoption, Duke Energy expects to elect the practical expedients, which would require no reassessment of whether existing contracts are or contain leases as well as no reassessment of lease classification for existing leases. Additionally, we expect to adopt the optional transition practical expedient allowing the entity not to reassess the accounting for land easements that currently exist at the adoption of the lease standard on January 1, 2019. Duke Energy is currently evaluating the financial statement impact of adopting this standard and is continuing to monitor industry implementation issues, including easements, pole attachments and renewable

PPAs. Other than an expected increase in assets and liabilities, the ultimate impact of the new standard has not yet been determined. Significant system enhancements, including additional processes and controls, will be required to facilitate the identification, tracking and reporting of potential leases based upon requirements of the new lease standard. Duke Energy has begun the implementation of a third-party software tool to help with the adoption and ongoing accounting under the new standard.

Statement of Cash Flows. In November 2016, the FASB issued revised accounting guidance to reduce diversity in practice for the presentation and classification of restricted cash on the statement of cash flows. Under the updated guidance, restricted cash and restricted cash equivalents will be included within beginning-of-period and end-of-period cash and cash equivalents on the statement of cash flows.

For Duke Energy, this guidance is effective for the interim and annual periods beginning January 1, 2018. The guidance will be applied using a retrospective transition method to each period presented. Upon adoption by Duke Energy, the revised guidance will result in a change to the amount of cash and cash equivalents and restricted cash explained when reconciling the beginning-of-period and end-of-period total amounts shown on the Consolidated Statement of Cash Flows. Prior to adoption, the Duke Energy Registrants reflect changes in restricted cash within Cash Flows from Investing Activities and within Cash Flows from Operating Activities on the Consolidated Statement of Cash Flows. As a result of this change, our Cash and cash equivalents balance on the Consolidated Statement of Cash Flows as of December 31, 2017 will change by \$147 million.

Retirement Benefits. In March 2017, the FASB issued revised accounting guidance for the presentation of net periodic costs related to benefit plans. Current GAAP permits the aggregation of all the components of net periodic costs on the Consolidated Statement of Operations and does not require the disclosure of the location of net periodic costs on the Consolidated Statement of Operations. Under the amended guidance, the service cost component of net periodic costs must be included within Operating Income within the same line as other compensation expenses. All other components of net periodic costs must be outside of Operating Income. In addition, the updated guidance permits only the service cost component of net periodic costs to be capitalized to Inventory or Property, Plant and Equipment. This represents a change from current GAAP, which permits all components of net periodic costs to be capitalized. These amendments should be applied retrospectively for the presentation of the various components of net periodic costs and prospectively for the change in eligible costs to be capitalized. The guidance allows for a practical expedient that permits a company to use amounts disclosed in prior-period financial statements as the estimation basis for applying the retrospective presentation requirements.

For Duke Energy, this guidance is effective for interim and annual periods beginning January 1, 2018. Duke Energy currently presents the total non-capitalized net periodic costs within Operation, maintenance and other on the Consolidated Statement of Operations. The adoption of this guidance will result in a retrospective change to reclassify the presentation of the non-service cost (benefit) components of net periodic costs to Other income and expenses. Duke Energy intends to utilize the practical expedient for retrospective presentation. The change in net periodic costs eligible for capitalization is applicable prospectively. Since Duke Energy's service cost component is expected to be greater than the total net periodic costs, the change will result in increased capitalization of net periodic costs, higher Operation, maintenance and other and higher Other income and expenses. The resulting impact to Duke Energy is expected to be an immaterial increase in Net Income resulting from the limitation of eligible capitalization of net periodic costs to the service cost component, which is larger than the total net periodic costs.

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Combined Notes to Consolidated Financial Statements – (Continued)

2. ACQUISITIONS AND DISPOSITIONS

ACQUISITIONS

The Duke Energy Registrants consolidate assets and liabilities from acquisitions as of the purchase date and include earnings from acquisitions in consolidated earnings after the purchase date.

2016 Acquisition of Piedmont Natural Gas

On October 3, 2016, Duke Energy acquired all outstanding common stock of Piedmont for a total cash purchase price of \$5.0 billion and assumed Piedmont's existing long-term debt, which had a fair value of approximately \$2.0 billion at the time of the acquisition. The acquisition provides a foundation for Duke Energy to establish a broader, long-term strategic natural gas infrastructure platform to complement its existing natural gas pipeline investments and regulated natural gas business in the Midwest. In connection with the closing of the acquisition, Piedmont became a wholly owned subsidiary of Duke Energy.

Purchase Price Allocation

The purchase price allocation of the Piedmont acquisition is as follows:

(in millions)	
Current assets	\$ 497
Property, plant and equipment, net	4,714
Goodwill	3,353
Other long-term assets	804
Total assets	9,368
Current liabilities, including current maturities of long-term debt	576
Long-term liabilities	1,790
Long-term debt	2,002
Total liabilities	4,368
Total purchase price	\$ 5,000

The fair value of Piedmont's assets and liabilities was determined based on significant estimates and assumptions that are judgmental in nature, including the amount and timing of projected future cash flows, discount rates reflecting risk inherent in the future cash flows and market prices of long-term debt.

The majority of Piedmont's operations are subject to the rate-setting authority of the NCUC, the PSCSC and the TPUC and are accounted for pursuant to accounting guidance for regulated operations. The rate-setting and cost recovery provisions currently in place for Piedmont's regulated operations provide revenues derived from costs, including a return on investment of assets and liabilities included in rate base. Thus, the fair value of Piedmont's assets and liabilities subject to these rate-setting provisions approximates the pre-acquisition carrying values and does not reflect any net valuation adjustments.

The significant assets and liabilities for which valuation adjustments were reflected within the purchase price allocation include the acquired equity method investments and long-term debt. The difference between the fair value and the pre-merger carrying values of long-term debt for regulated operations was recorded as a regulatory asset.

The excess of the purchase price over the fair value of Piedmont's assets and liabilities on the acquisition date was recorded as goodwill. The goodwill

reflects the value paid by Duke Energy primarily for establishing a broader, long-term strategic natural gas infrastructure growth platform, an improved risk profile and expected synergies resulting from the combined entities.

Under Securities and Exchange Commission (SEC) regulations, Duke Energy elected not to apply push down accounting to the stand-alone Piedmont financial statements.

Accounting Charges Related to the Acquisition

Duke Energy incurred pretax non-recurring transaction and integration costs associated with the acquisition of \$103 million, \$439 million and \$9 million for the years ended December 31, 2017, 2016 and 2015, respectively. Amounts recorded on the Consolidated Statements of Operations in 2017 were primarily system integration costs of \$71 million related to combining the various operational and financial systems of Duke Energy and Piedmont, including a one-time software impairment resulting from planned accounting system and process integration. A \$7 million charge was recorded within Impairment Charges, with the remaining \$64 million recorded within Operation, maintenance and other.

Amounts recorded in 2016 include:

- Interest expense of \$234 million related to the acquisition financing, including realized losses on forward-starting interest rate swaps of \$190 million. See Note 14 for additional information on the swaps.
- Charges of \$104 million related to commitments made in conjunction with the transaction, including charitable contributions and a one-time bill credit to Piedmont customers. \$10 million was recorded as a reduction in Operating Revenues, with the remaining \$94 million recorded within Operation, maintenance and other.
- Other transaction and integration costs of \$101 million recorded to Operation, maintenance and other, including professional fees and severance.

The majority of transition and integration activities are expected to be completed by the end of 2018.

Pro Forma Financial Information

The following unaudited pro forma financial information reflects the combined results of operations of Duke Energy and Piedmont as if the merger had occurred as of January 1, 2015. The pro forma financial information does not include potential cost savings, intercompany revenues, Piedmont's earnings from a certain equity method investment sold immediately prior to the merger or non-recurring transaction and integration costs incurred by Duke Energy and Piedmont. The after-tax non-recurring transaction and integration costs incurred by Duke Energy and Piedmont were \$279 million and \$19 million for the years ended December 31, 2016, and 2015, respectively.

This information has been presented for illustrative purposes only and is not necessarily indicative of the consolidated results of operations that would have been achieved or the future consolidated results of operations of Duke Energy.

(in millions)	Years Ended December 31,	
	2016	2015
Operating Revenues	\$ 23,504	\$23,570
Net Income Attributable to Duke Energy Corporation	2,442	2,877

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

Piedmont's Earnings

Piedmont's revenues and net income included in Duke Energy's Consolidated Statements of Operations for the year ended December 31, 2016, were \$367 million and \$20 million, respectively. Piedmont's revenues and net income for the year ended December 31, 2016, include the impact of non-recurring transaction costs of \$10 million and \$46 million, respectively.

Acquisition Related Financings and Other Matters

Duke Energy financed the Piedmont acquisition with a combination of debt and equity issuances and other cash sources, including:

- \$3.75 billion of long-term debt issued in August 2016.
- \$750 million borrowed under the \$1.5 billion short-term loan facility in September 2016, which was repaid in December 2016.
- 10.6 million shares of common stock issued in October 2016 for net cash proceeds of approximately \$723 million.

The \$4.9 billion senior unsecured bridge financing facility (Bridge Facility) with Barclays Capital, Inc. (Barclays) was terminated following the issuance of the long-term debt. For additional information related to the debt and equity issuances, see Notes 6 and 18, respectively. For additional information regarding Duke Energy's and Piedmont's joint investment in Atlantic Coast Pipeline, LLC (ACP), see Note 4.

DISPOSITIONS

For the year ended December 31, 2017, the Loss from Discontinued Operations, net of tax, was immaterial. The following table summarizes the (Loss) Income from Discontinued Operations, net of tax recorded on Duke Energy's Consolidated Statements of Operations for the years ended December 31, 2016, and 2015:

(in millions)	Years Ended December 31,	
	2016	2015
International Energy Disposal Group	\$ (534)	\$ 157
Midwest Generation Disposal Group	36	33
Other ^(a)	90	(13)
(Loss) Income from Discontinued Operations, net of tax	\$ (408)	\$ 177

(a) Relates to previously sold businesses not related to the Disposal Groups. The amount for 2016 represents an income tax benefit resulting from immaterial out of period deferred tax liability adjustments. The amount for 2015 includes indemnifications provided for certain legal, tax and environmental matters and foreign currency translation adjustments.

2016 Sale of International Energy

In February 2016, Duke Energy announced it had initiated a process to divest its International Energy businesses, excluding the equity method investment in NMC (the International Disposal Group), and in October 2016, announced it had entered into two separate purchase and sale agreements to execute the divestiture. Both sales closed in December of 2016, resulting in available cash proceeds of \$1.9 billion, excluding transaction costs. Proceeds were primarily used to reduce Duke Energy holding company (the parent) debt. Existing favorable tax attributes result in no immediate U.S. federal-level cash tax impacts. Details of each transaction are as follows:

- On December 20, 2016, Duke Energy closed on the sale of its ownership interests in businesses in Argentina, Chile, Ecuador, El Salvador, Guatemala and Peru to I Squared Capital. The assets sold included approximately 2,230 MW of hydroelectric and natural gas generation capacity, transmission infrastructure and natural gas processing facilities. I Squared Capital purchased the businesses for an enterprise value of \$1.2 billion.
- On December 29, 2016, Duke Energy closed on the sale of its Brazilian business, which included approximately 2,090 MW of hydroelectric generation capacity, to CTG for an enterprise value of \$1.2 billion. With the closing of the CTG deal, Duke Energy finalized its exit from the Latin American market.

Assets Held For Sale and Discontinued Operations

As a result of the transactions, the International Disposal Group was classified as held for sale and as discontinued operations in the fourth quarter of 2016. Interest expense directly associated with the International Disposal Group was allocated to discontinued operations. No interest from corporate level debt was allocated to discontinued operations.

The following table presents the results of the International Disposal Group for the years ended December 31, 2016, and 2015, which are included in (Loss) Income from Discontinued Operations, net of tax in Duke Energy's Consolidated Statements of Operations.

(in millions)	Years Ended December 31,	
	2016	2015
Operating Revenues	\$ 988	\$ 1,088
Fuel used in electric generation and purchased power	227	306
Cost of natural gas	43	53
Operation, maintenance and other	341	334
Depreciation and amortization ^(a)	62	92
Property and other taxes	15	7
Impairment charges ^(b)	194	13
(Loss) Gains on Sales of Other Assets and Other, net	(3)	6
Other Income and Expenses, net	58	23
Interest Expense	82	85
Pretax loss on disposal ^(c)	(514)	—
(Loss) Income before income taxes ^(d)	(435)	227
Income tax expense ^{(a)(f)}	99	70
(Loss) Income from discontinued operations of the International Disposal Group	\$ (534)	\$ 157

- (a) Upon meeting the criteria for assets held for sale, beginning in the fourth quarter of 2016 depreciation expense was ceased.
- (b) In conjunction with the advancements of marketing efforts during 2016, Duke Energy performed recoverability tests of the long-lived asset groups of International Energy. As a result, Duke Energy determined the carrying value of certain assets in Central America was not fully recoverable and recorded a pretax impairment charge of \$194 million. The charge represents the excess of carrying value over the estimated fair value of the assets, which was based on a Level 3 Fair Value measurement that was primarily determined from the income approach using discounted cash flows but also considered market information obtained in 2016.
- (c) The pretax loss on disposal includes the recognition of cumulative foreign currency translation losses of \$620 million as of the disposal date. See the Consolidated Statements of Changes in Equity for additional information.
- (d) Pretax (Loss) Income attributable to Duke Energy Corporation was \$(445) million and \$221 million for the years ended December 31, 2016 and 2015, respectively.
- (e) 2016 amount includes \$126 million of income tax expense on the disposal, which primarily reflects in-country taxes incurred as a result of the sale. The after-tax loss on disposal was \$640 million.
- (f) 2016 amount includes an income tax benefit of \$95 million. See Note 22, "Income Taxes," for additional information.

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy has elected not to separately disclose discontinued operations on the Consolidated Statements of Cash Flows. The following table summarizes Duke Energy's cash flows from discontinued operations related to the International Disposal Group.

(in millions)	Years Ended December 31,	
	2016	2015
Cash flows provided by (used in):		
Operating activities	\$ 204	\$ 248
Investing activities	(434)	177

2015 Midwest Generation Exit

Duke Energy, through indirect subsidiaries, completed the sale of the Midwest Generation Disposal Group to a subsidiary of Dynegy on April 2, 2015, for approximately \$2.8 billion in cash. The nonregulated Midwest generation business included generation facilities with approximately 5,900 MW of owned capacity located in Ohio, Pennsylvania and Illinois. On April 1, 2015, prior to the sale, Duke Energy Ohio distributed its indirect ownership interest in the nonregulated Midwest generation business to a subsidiary of Duke Energy Corporation.

Duke Energy utilized a revolving credit agreement (RCA) to support the operations of the nonregulated Midwest generation business. Duke Energy Ohio had a power purchase agreement with the Midwest Generation Disposal Group for a portion of its standard service offer (SSO) supply requirement. The agreement and the SSO expired in May 2015.

The results of operations of the Midwest Generation Disposal Group prior to the date of sale are classified as discontinued operations in the accompanying Consolidated Statements of Operations. Interest expense associated with the RCA was allocated to discontinued operations. No other interest expense related to corporate level debt was allocated to discontinued operations. Certain immaterial costs that were eliminated as a result of the sale remained in continuing operations. The following table summarizes the Midwest Generation Disposal Group activity recorded within discontinued operations.

(in millions)	Duke Energy		Duke Energy Ohio	
	Years Ended December 31,		Years Ended December 31,	
	2016	2015	2016	2015
Operating Revenues	\$ —	\$ 543	\$ —	\$ 412
Pretax Loss on disposal ^(a)	—	(45)	—	(52)
Income (loss) before income taxes ^(b)	\$ —	\$ 59	\$ —	\$ 44
Income tax (benefit) expense ^(c)	(36)	26	(36)	21
Income (loss) from discontinued operations	\$ 36	\$ 33	\$ 36	\$ 23

(a) The Loss on disposal includes impairments recorded to adjust the carrying amount of the assets to the estimated fair value of the business, based on the selling price to Dynegy less cost to sell.

(b) 2015 amounts include the impact of an \$81 million charge for the settlement agreement reached in a lawsuit related to the Midwest Generation Disposal Group. Refer to Note 5 for further information about the lawsuit.

(c) 2016 amounts result from immaterial out of period deferred tax liability adjustments.

3. BUSINESS SEGMENTS

Operating segments are determined based on information used by the chief operating decision-maker in deciding how to allocate resources and evaluate the performance of the business. Duke Energy evaluates segment performance based on segment income. Segment income is defined as income from continuing operations net of income attributable to noncontrolling interests. Segment income, as discussed below, includes intercompany revenues and expenses that are eliminated on the Consolidated Financial Statements. Certain governance costs are allocated to each segment. In addition, direct interest expense and income taxes are included in segment income.

Products and services are sold between affiliate companies and reportable segments of Duke Energy at cost. Segment assets as presented in the tables that follow exclude all intercompany assets.

DUKE ENERGY

Duke Energy's segment structure includes the following segments: Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables.

Other Sale Related Matters

During 2017, Duke Energy provided certain transition services to CTG and I Squared Capital. Cash flows related to providing the transition services were not material as of December 31, 2017. All transition services related to the International Disposal Group ended in 2017. Additionally, Duke Energy will reimburse CTG and I Squared Capital for all tax obligations arising from the period preceding consummation on the transactions, totaling approximately \$78 million. Duke Energy has not recorded any other liabilities, contingent liabilities or indemnifications related to the International Disposal Group.

The Electric Utilities and Infrastructure segment includes Duke Energy's regulated electric utilities in the Carolinas, Florida and the Midwest. The regulated electric utilities conduct operations through the Subsidiary Registrants that are substantially all regulated and, accordingly, qualify for regulatory accounting treatment. Electric Utilities and Infrastructure also includes Duke Energy's commercial electric transmission infrastructure investments.

The Gas Utilities and Infrastructure segment includes Piedmont, Duke Energy's natural gas local distribution companies in Ohio and Kentucky, and Duke Energy's natural gas storage and midstream pipeline investments. Gas Utilities and Infrastructure's operations are substantially all regulated and, accordingly, qualify for regulatory accounting treatment.

The Commercial Renewables segment is primarily comprised of nonregulated utility scale wind and solar generation assets located throughout the U.S.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

The remainder of Duke Energy's operations is presented as Other, which is primarily comprised of corporate interest expense, unallocated corporate costs, contributions to the Duke Energy Foundation and the operations of Duke Energy's wholly owned captive insurance subsidiary, Bison Insurance Company Limited (Bison). Other also includes Duke Energy's interest in NMC. See Note 12 for additional information on the investment in NMC.

Business segment information is presented in the following tables. Segment assets presented exclude intercompany assets.

(in millions)	Year Ended December 31, 2017						Total
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total Reportable Segments	Other	Eliminations	
Unaffiliated Revenues	\$ 21,300	\$ 1,743	\$ 460	\$ 23,503	\$ 62	\$ —	\$ 23,565
Intersegment Revenues	31	93	—	124	76	(200)	—
Total Revenues	\$ 21,331	\$ 1,836	\$ 460	\$ 23,627	\$ 138	\$ (200)	\$ 23,565
Interest Expense	\$ 1,240	\$ 105	\$ 87	\$ 1,432	\$ 574	\$ (20)	\$ 1,986
Depreciation and amortization	3,010	231	155	3,396	131	—	3,527
Equity in earnings (losses) of unconsolidated affiliates	5	62	(5)	62	57	—	119
Income tax expense (benefit) ^(a)	1,355	116	(628)	843	353	—	1,196
Segment income (loss) ^{(b)(c)(d)}	3,210	319	441	3,970	(905)	—	3,065
Add back noncontrolling interest component							5
Loss from discontinued operations, net of tax							(6)
Net income							\$ 3,064
Capital investments expenditures and acquisitions	\$ 7,024	\$ 907	\$ 92	\$ 8,023	\$ 175	\$ —	\$ 8,198
Segment assets	119,423	11,462	4,156	135,041	2,685	188	137,914

- (a) All segments include impacts of the Tax Cuts and Jobs Act (the Tax Act). Electric Utilities and Infrastructure includes a \$231 million benefit, Gas Utilities and Infrastructure includes a \$26 million benefit, Commercial Renewables includes a \$442 million benefit and Other includes charges of \$597 million.
(b) Electric Utilities and Infrastructure includes after-tax regulatory settlement charges of \$98 million. See Note 4 for additional information.
(c) Commercial Renewables includes after-tax impairment charges of \$74 million related to certain wind projects and the Energy Management Solutions reporting unit. See Notes 10 and 11 for additional information.
(d) Other includes \$64 million of after-tax costs to achieve the Piedmont merger. See Note 2 for additional information.

(in millions)	Year Ended December 31, 2016						Total
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total Reportable Segments	Other	Eliminations	
Unaffiliated Revenues	\$ 21,336	\$ 875	\$ 484	\$ 22,695	\$ 48	\$ —	\$ 22,743
Intersegment Revenues	30	26	—	56	69	(125)	—
Total Revenues	\$ 21,366	\$ 901	\$ 484	\$ 22,751	\$ 117	\$ (125)	\$ 22,743
Interest Expense	\$ 1,136	\$ 46	\$ 53	\$ 1,235	\$ 693	\$ (12)	\$ 1,916
Depreciation and amortization	2,897	115	130	3,142	152	—	3,294
Equity in earnings (losses) of unconsolidated affiliates ^(a)	5	19	(82)	(58)	43	—	(15)
Income tax expense (benefit)	1,672	90	(160)	1,602	(446)	—	1,156
Segment income (loss) ^{(b)(c)}	3,040	152	23	3,215	(645)	1	2,571
Add back noncontrolling interest component							7
Loss from discontinued operations, net of tax ^(d)							(408)
Net income							\$ 2,170
Capital investments expenditures and acquisitions ^(a)	\$ 6,649	\$ 5,519	\$ 857	\$ 13,025	\$ 190	\$ —	\$ 13,215
Segment assets	114,993	10,760	4,377	130,130	2,443	188	132,761

- (a) Commercial Renewables includes a pretax impairment charge of \$71 million. See Note 12 for additional information.
(b) Other includes \$329 million of after-tax costs to achieve mergers. Refer to Note 2 for additional information on costs related to the Piedmont merger.
(c) Other includes after-tax charges of \$57 million related to cost savings initiatives. Refer to Note 19 for further information.
(d) Includes a loss on sale of the International Disposal Group. Refer to Note 2 for further information.
(e) Other includes \$26 million of capital investments expenditures related to the International Disposal Group. Gas Utilities and Infrastructure includes the Piedmont acquisition of \$5 billion. Refer to Note 2 for more information on the Piedmont acquisition.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Year Ended December 31, 2015						Total
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total Reportable Segments	Other	Eliminations	
Unaffiliated Revenues	\$ 21,489	\$ 536	\$ 286	\$ 22,311	\$ 60	\$ —	\$ 22,371
Intersegment Revenues	32	5	—	37	75	(112)	—
Total Revenues	\$ 21,521	\$ 541	\$ 286	\$ 22,348	\$ 135	\$ (112)	\$ 22,371
Interest Expense	\$ 1,074	\$ 25	\$ 44	\$ 1,143	\$ 393	\$ (9)	\$ 1,527
Depreciation and amortization	2,735	79	104	2,918	135	—	3,053
Equity in (losses) earnings of unconsolidated affiliates	(2)	1	(6)	(7)	76	—	69
Income tax expense (benefit)	1,602	44	(128)	1,518	(262)	—	1,256
Segment income (loss) ^{(a)(b)(c)}	2,819	73	52	2,944	(299)	—	2,645
Add back noncontrolling interest component							9
Income from discontinued operations, net of tax ^(d)							177
Net income							\$ 2,831
Capital investments expenditures and acquisitions ^(e)	\$ 6,852	\$ 234	\$ 1,019	\$ 8,105	\$ 258	\$ —	\$ 8,363
Segment assets ^(f)	109,097	2,637	3,861	115,595	5,373	188	121,156

(a) Electric Utilities and Infrastructure includes an after-tax charge of \$58 million related to the Edwardsport settlement. Refer to Note 4 for further information.

(b) Other includes \$60 million of after-tax costs to achieve mergers.

(c) Other includes after-tax charges of \$77 million related to cost savings initiatives. Refer to Note 19 for further information.

(d) Includes the impact of a settlement agreement reached in a lawsuit related to the Midwest Generation Disposal Group. Refer to Note 5 for further information related to the lawsuit and Note 2 for further information on discontinued operations.

(e) Other includes capital investment expenditures of \$45 million related to the International Disposal Group.

(f) Other includes Assets Held for Sale balances related to the International Disposal Group. Refer to Note 2 for further information.

Geographical Information

For the years ended December 31, 2017, 2016 and 2015, all assets and revenues from continuing operations are within the U.S.

Major Customers

For the year ended December 31, 2017, revenues from one customer of Duke Energy Progress are \$521 million. Duke Energy Progress has one reportable segment, Electric Utilities and Infrastructure. No other subsidiary registrant has an individual customer representing more than 10 percent of its revenues.

Products and Services

The following table summarizes revenues of the reportable segments by type.

(in millions)	Retail Electric	Wholesale Electric	Retail Natural Gas	Other	Total Revenues
2017					
Electric Utilities and Infrastructure	\$ 18,177	\$ 2,104	\$ —	\$ 1,050	\$ 21,331
Gas Utilities and Infrastructure	—	—	1,732	104	1,836
Commercial Renewables	—	375	—	85	460
Total Reportable Segments	\$ 18,177	\$ 2,479	\$ 1,732	\$ 1,239	\$ 23,627
2016					
Electric Utilities and Infrastructure	\$ 18,338	\$ 2,095	\$ —	\$ 933	\$ 21,366
Gas Utilities and Infrastructure	—	—	871	30	901
Commercial Renewables	—	303	—	181	484
Total Reportable Segments	\$ 18,338	\$ 2,398	\$ 871	\$ 1,144	\$ 22,751
2015					
Electric Utilities and Infrastructure	\$ 18,695	\$ 2,014	\$ —	\$ 812	\$ 21,521
Gas Utilities and Infrastructure	—	—	546	(5)	541
Commercial Renewables	—	245	—	41	286
Total Reportable Segments	\$ 18,695	\$ 2,259	\$ 546	\$ 848	\$ 22,348

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Ohio

Duke Energy Ohio has two reportable operating segments, Electric Utilities and Infrastructure and Gas Utilities and Infrastructure.

Electric Utilities and Infrastructure transmits and distributes electricity in portions of Ohio and generates, distributes and sells electricity in portions of Northern Kentucky. Gas Utilities and Infrastructure transports and sells natural gas in portions of Ohio and Northern Kentucky. It conducts operations primarily through Duke Energy Ohio and its wholly owned subsidiary, Duke Energy Kentucky.

The remainder of Duke Energy Ohio's operations is presented as Other, which is primarily comprised of governance costs allocated by its parent, Duke Energy, and revenues and expenses related to Duke Energy Ohio's contractual arrangement to buy power from OVEC's (Ohio Valley Electric Corporation) power plants. See Note 13 for additional information on related party transactions. For the years ended December 31, 2017, 2016 and 2015, all Duke Energy Ohio assets and revenues are within the U.S.

Year Ended December 31, 2017						
(in millions)	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Total Reportable Segments	Other	Eliminations	Total
Total revenues	\$ 1,373	\$ 508	\$ 1,881	\$ 42	\$ —	\$ 1,923
Interest expense	\$ 62	\$ 28	\$ 90	\$ 1	\$ —	\$ 91
Depreciation and amortization	178	83	261	—	—	261
Income tax expense (benefit)	40	39	79	(20)	—	59
Segment income (loss)	138	85	223	(30)	—	193
Loss from discontinued operations, net of tax						(1)
Net income						\$ 192
Capital expenditures	\$ 491	\$ 195	\$ 686	\$ —	\$ —	\$ 686
Segment assets	5,066	2,758	7,824	66	(15)	7,875

Year Ended December 31, 2016						
(in millions)	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Total Reportable Segments	Other	Eliminations	Total
Total revenues	\$ 1,410	\$ 503	\$ 1,913	\$ 31	\$ —	\$ 1,944
Interest expense	\$ 58	\$ 27	\$ 85	\$ 1	\$ —	\$ 86
Depreciation and amortization	151	80	231	2	—	233
Income tax expense (benefit)	55	44	99	(21)	—	78
Segment income (loss)	154	77	231	(39)	—	192
Income from discontinued operations, net of tax						36
Net income						\$ 228
Capital expenditures	\$ 322	\$ 154	\$ 476	\$ —	\$ —	\$ 476
Segment assets	4,782	2,696	7,478	62	(12)	7,528

Year Ended December 31, 2015						
(in millions)	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Total Reportable Segments	Other	Eliminations	Total
Total revenues	\$ 1,331	\$ 541	\$ 1,872	\$ 33	\$ —	\$ 1,905
Interest expense	\$ 53	\$ 25	\$ 78	\$ 1	\$ —	\$ 79
Depreciation and amortization	147	79	226	1	—	227
Income tax expense (benefit)	59	45	104	(23)	—	81
Segment income (loss)	118	73	191	(41)	(1)	149
Income from discontinued operations, net of tax						23
Net income						\$ 172
Capital expenditures	\$ 264	\$ 135	\$ 399	\$ —	\$ —	\$ 399
Segment assets	4,534	2,516	7,050	56	(9)	7,097

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Combined Notes to Consolidated Financial Statements – (Continued)

4. REGULATORY MATTERS

REGULATORY ASSETS AND LIABILITIES

The Duke Energy Registrants record regulatory assets and liabilities that result from the ratemaking process. See Note 1 for further information.

The following tables present the regulatory assets and liabilities recorded on the Consolidated Balance Sheets of Duke Energy and Progress Energy. See separate tables below for balances by individual registrant.

(in millions)	Duke Energy		Progress Energy	
	December 31,		December 31,	
	2017	2016	2017	2016
Regulatory Assets				
AROs – coal ash	\$ 4,025	\$ 3,761	\$1,984	\$ 1,830
AROs – nuclear and other	852	684	655	569
Accrued pension and OPEB	2,249	2,387	906	882
Retired generation facilities	480	534	386	422
Debt fair value adjustment	1,197	1,313	—	—
Net regulatory asset related to income taxes	—	894	—	231
Storm cost deferrals	531	153	526	148
Nuclear asset securitized balance, net	1,142	1,193	1,142	1,193
Hedge costs deferrals	234	217	94	91
Derivatives – natural gas supply contracts	142	187	—	—
Demand side management (DSM)/Energy efficiency (EE)	530	407	281	278
Grid modernization	39	65	—	—
Vacation accrual	213	196	42	38
Deferred fuel and purchased power	507	156	349	111
Nuclear deferral	119	226	35	134
Post-in-service carrying costs (PISCC) and deferred operating expenses	366	413	38	42
Transmission expansion obligation	46	71	—	—
Manufactured gas plant (MGP)	91	99	—	—
Advanced metering infrastructure (AMI)	362	218	150	—
NCEMPA deferrals	53	51	53	51
East Bend deferrals	45	32	—	—
Deferred pipeline integrity costs	54	36	—	—
Amounts due from customers	64	66	—	—
Other	538	542	110	103
Total regulatory assets	13,879	13,901	6,751	6,123
Less: current portion	1,437	1,023	741	401
Total noncurrent regulatory assets	\$12,442	\$12,878	\$6,010	\$ 5,722
Regulatory Liabilities				
Costs of removal	\$ 5,968	\$ 5,613	\$2,537	\$ 2,198
ARO – nuclear and other	806	461	—	—
Net regulatory liability related to income taxes	8,113	—	2,802	—
Amounts to be refunded to customers	10	45	—	—
Storm reserve	20	83	—	60
Accrued pension and OPEB	146	174	—	—
Deferred fuel and purchased power	47	192	1	81
Other	622	722	179	245
Total regulatory liabilities	15,732	7,290	5,519	2,584
Less: current portion	402	409	213	189
Total noncurrent regulatory liabilities	\$15,330	\$ 6,881	\$5,306	\$ 2,395

Combined Notes to Consolidated Financial Statements – (Continued)

Descriptions of regulatory assets and liabilities summarized in the tables above and below follow. See tables below for recovery and amortization periods at the separate registrants.

AROs – coal ash. Represents deferred depreciation and accretion related to the legal obligation to close ash basins. The costs are deferred until recovery treatment has been determined. See Notes 1 and 9 for additional information.

AROs – nuclear and other. Represents regulatory assets or liabilities, including deferred depreciation and accretion, related to legal obligations associated with the future retirement of property, plant and equipment, excluding amounts related to coal ash. The AROs relate primarily to decommissioning nuclear power facilities. The amounts also include certain deferred gains and losses on NDTF investments. See Notes 1 and 9 for additional information.

Accrued pension and OPEB. Accrued pension and other post-retirement benefit obligations (OPEB) represent regulatory assets and liabilities related to each of the Duke Energy Registrants' respective shares of unrecognized actuarial gains and losses and unrecognized prior service cost and credit attributable to Duke Energy's pension plans and OPEB plans. The regulatory asset or liability is amortized with the recognition of actuarial gains and losses and prior service cost and credit to net periodic benefit costs for pension and OPEB plans. The accrued pension and OPEB regulatory asset is expected to be recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 21 for additional detail.

Retired generation facilities. Represents amounts to be recovered for facilities that have been retired and are probable of recovery.

Debt fair value adjustment. Purchase accounting adjustments recorded to state the carrying value of Progress Energy and Piedmont at fair value in connection with the 2012 and 2016 mergers, respectively. Amount is amortized over the life of the related debt.

Net regulatory asset or liability related to income taxes. Amounts for all registrants include regulatory liabilities related primarily to impacts from the Tax Act. See Note 22 for additional information. Amounts have no immediate impact on rate base as regulatory assets are offset by deferred tax liabilities.

Storm cost deferrals. Represents deferred incremental costs incurred related to extraordinary weather-related events.

Nuclear asset securitized balance, net. Represents the balance associated with Crystal River Unit 3 retirement approved for recovery by the FPSC on September 15, 2015, and the upfront financing costs securitized in 2016 with issuance of the associated bonds. The regulatory asset balance is net of the AFUDC equity portion.

Hedge costs and other deferrals. Amounts relate to unrealized gains and losses on derivatives recorded as a regulatory asset or liability, respectively, until the contracts are settled.

Derivatives – natural gas supply contracts. Represents costs for certain long-dated, fixed quantity forward gas supply contracts, which are recoverable through PGA clauses.

DSM/EE. Deferred costs related to various DSM and EE programs recoverable through various mechanisms.

Grid modernization. Amounts represent deferred depreciation and operating expenses as well as carrying costs on the portion of capital expenditures placed in service but not yet reflected in retail rates as plant in service.

Vacation accrual. Generally recovered within one year.

Deferred fuel and purchased power. Represents certain energy-related costs that are recoverable or refundable as approved by the applicable regulatory body.

Nuclear deferral. Includes amounts related to leveling nuclear plant outage costs, which allows for the recognition of nuclear outage expenses over the refueling cycle rather than when the outage occurs, resulting in the deferral of operations and maintenance costs associated with refueling.

Post-in-service carrying costs and deferred operating expenses. Represents deferred depreciation and operating expenses as well as carrying costs on the portion of capital expenditures placed in service but not yet reflected in retail rates as plant in service.

Gasification services agreement buyout. The IURC authorized Duke Energy Indiana to recover costs incurred to buy out a gasification services agreement, including carrying costs through 2017.

Transmission expansion obligation. Represents transmission expansion obligations related to Duke Energy Ohio's withdrawal from Midcontinent Independent System Operator, Inc. (MISO).

MGP. Represents remediation costs incurred at former MGP sites and the deferral of costs to be incurred at the East End and West End sites through 2019.

AMI. Represents deferred costs related to the installation of AMI meters and remaining net book value of non-AMI meters to be replaced at Duke Energy Carolinas, net book value of existing meters at Duke Energy Florida, Duke Energy Progress and Duke Energy Ohio and expected future recovery of net book value of electromechanical meters that have been replaced with AMI meters at Duke Energy Indiana.

NCEMPA deferrals. Represents retail allocated cost deferrals and returns associated with the additional ownership interest in assets acquired from NCEMPA in 2015.

East Bend deferrals. Represents both deferred operating expenses and deferred depreciation as well as carrying costs on the portion of East Bend Generating Station (East Bend) that was acquired from Dayton Power and Light and that had been previously operated as a jointly owned facility.

Deferred pipeline integrity costs. Represents pipeline integrity management costs in compliance with federal regulations recovered through a rider mechanism.

Amounts due from customers. Relates primarily to margin decoupling and IMR recovery mechanisms.

Costs of removal. Represents funds received from customers to cover the future removal of property, plant and equipment from retired or abandoned sites as property is retired. Also includes certain deferred gains on NDTF investments.

Amounts to be refunded to customers. Represents required rate reductions to retail customers by the applicable regulatory body.

Storm reserve. Amounts are used to offset future incurred costs for named storms as approved by regulatory commissions.

RESTRICTIONS ON THE ABILITY OF CERTAIN SUBSIDIARIES TO MAKE DIVIDENDS, ADVANCES AND LOANS TO DUKE ENERGY

As a condition to the approval of merger transactions, the NCUC, PSCSC, PUCO, KPSC and IURC imposed conditions on the ability of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Ohio, Duke Energy Kentucky, Duke Energy Indiana and Piedmont to transfer funds to Duke Energy through loans or advances, as well as restricted amounts available to pay dividends to Duke Energy. Certain subsidiaries may transfer funds to the parent by obtaining approval of the respective state regulatory commissions. These conditions imposed restrictions on the ability of the public utility subsidiaries to pay cash dividends as discussed below.

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Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Progress and Duke Energy Florida also have restrictions imposed by their first mortgage bond indentures, which, in certain circumstances, limit their ability to make cash dividends or distributions on common stock. Amounts restricted as a result of these provisions were not material at December 31, 2017.

Additionally, certain other subsidiaries of Duke Energy have restrictions on their ability to dividend, loan or advance funds to Duke Energy due to specific legal or regulatory restrictions, including, but not limited to, minimum working capital and tangible net worth requirements.

The restrictions discussed below were less than 25 percent of Duke Energy's and Progress Energy's net assets at December 31, 2017.

Duke Energy Carolinas

Duke Energy Carolinas must limit cumulative distributions subsequent to mergers to (i) the amount of retained earnings on the day prior to the closing of the mergers, plus (ii) any future earnings recorded.

Duke Energy Progress

Duke Energy Progress must limit cumulative distributions subsequent to the mergers between Duke Energy and Progress Energy and Duke Energy and Piedmont to (i) the amount of retained earnings on the day prior to the closing of the respective mergers, plus (ii) any future earnings recorded.

Duke Energy Ohio

Duke Energy Ohio will not declare and pay dividends out of capital or unearned surplus without the prior authorization of the PUCO. Duke Energy Ohio received FERC and PUCO approval to pay dividends from its equity accounts that are reflective of the amount that it would have in its retained earnings account had push-down accounting for the Cinergy Corp. (Cinergy) merger not been applied to Duke Energy Ohio's balance sheet. The conditions include a commitment from Duke Energy Ohio that equity, adjusted to remove the impacts of push-down accounting, will not fall below 30 percent of total capital.

Duke Energy Kentucky is required to pay dividends solely out of retained earnings and to maintain a minimum of 35 percent equity in its capital structure.

Duke Energy Indiana

Duke Energy Indiana must limit cumulative distributions subsequent to the merger between Duke Energy and Cinergy to (i) the amount of retained earnings on the day prior to the closing of the merger, plus (ii) any future earnings recorded. In addition, Duke Energy Indiana will not declare and pay dividends out of capital or unearned surplus without prior authorization of the IURC.

Piedmont

Piedmont must limit cumulative distributions subsequent to the acquisition of Piedmont by Duke Energy to (i) the amount of retained earnings on the day prior to the closing of the merger, plus (ii) any future earnings recorded.

RATE RELATED INFORMATION

The NCUC, PSCSC, FPSC, IURC, PUCO, TPUC and KPSC approve rates for retail electric and natural gas services within their states. The FERC approves rates for electric sales to wholesale customers served under cost-based rates (excluding Ohio and Indiana), as well as sales of transmission service. The FERC also regulates certification and siting of new interstate natural gas pipeline projects.

All Registrants

Tax Act Impacts

On December 22, 2017, President Trump signed the Tax Act into law, which, among other provisions, reduces the maximum federal corporate income tax rate from 35 percent to 21 percent, effective January 1, 2018. As a result of the Tax Act, the Subsidiary Registrants revalued their deferred tax assets and deferred tax liabilities, as of December 31, 2017, to account for the future impact of lower corporate tax rates on these deferred tax amounts. For the Subsidiary Registrants regulated operations, where the reduction is expected to be accounted for and applied to customers' rates in future commission proceedings, including rate proceedings, the net remeasurement has been deferred as a regulatory liability. Each of the Subsidiary Registrant's regulatory commissions is reviewing the Tax Act to determine the potential impacts on customer rates. Beginning in January 2018, the Subsidiary Registrants will defer the estimated ongoing impacts of the Tax Act that are expected to be returned to customers. See Note 22 for additional information.

Duke Energy Carolinas and Duke Energy Progress

Ash Basin Closure Costs Deferral

On December 30, 2016, Duke Energy Carolinas and Duke Energy Progress filed a joint petition with the NCUC seeking an accounting order authorizing deferral of certain costs incurred in connection with federal and state environmental remediation requirements related to the permanent closure of ash basins and other ash storage units at coal-fired generating facilities that have provided or are providing generation to customers located in North Carolina. Initial comments were received in March 2017, and reply comments were filed on April 19, 2017. The NCUC has consolidated Duke Energy Carolinas' and Duke Energy Progress' coal ash deferral requests into their respective general rate case dockets for decision. See "2017 North Carolina Rate Case" sections below for additional discussion. Duke Energy Carolinas and Duke Energy Progress cannot predict the outcome of this matter.

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Carolinas

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Carolinas' Consolidated Balance Sheets.

(in millions)	December 31,		Earnings/Pays a Return	Recovery/Refund Period Ends
	2017	2016		
Regulatory Assets^(a)				
AROs - coal ash	\$ 1,645	\$ 1,536	(i)	(b)
AROs - nuclear and other	—	9		
Accrued pension and OPEB	410	481		(j)
Retired generation facilities ^(c)	29	39	X	2023
Net regulatory asset related to income taxes ^(d)	—	484		
Hedge costs deferrals ^(c)	109	93	X	2041
DSM/EE	210	122	(h)	(h)
Vacation accrual	83	76	(e)	2018
Deferred fuel and purchased power	140	—	(f)	2018
Nuclear deferral	84	92		2019
PISCC ^(c)	35	70	X	(b)
AMI	185	172	X	(b)
Other	222	223		(b)
Total regulatory assets	3,152	3,397		
Less: current portion	299	238		
Total noncurrent regulatory assets	\$ 2,853	\$ 3,159		
Regulatory Liabilities^(a)				
Costs of removal ^(c)	\$ 2,054	\$ 2,015	X	(g)
ARO - nuclear and other	806	461		(b)
Net regulatory liability related to income taxes ^(d)	3,028	—		(b)
Storm reserve ^(c)	20	22		(b)
Accrued pension and OPEB	44	46		(j)
Deferred fuel and purchased power	46	105	(f)	2018
Other	359	352		(b)
Total regulatory liabilities	6,357	3,001		
Less: current portion	126	161		
Total noncurrent regulatory liabilities	\$ 6,231	\$ 2,840		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Included in rate base.
(d) Includes regulatory liabilities related to the change in the North Carolina tax rate discussed in Note 22.
(e) Earns a return on outstanding balance in North Carolina.
(f) Pays interest on over-recovered costs in North Carolina. Includes certain purchased power costs in North Carolina and South Carolina and costs of distributed energy in South Carolina.
(g) Recovered over the life of the associated assets.
(h) Includes incentives on DSM/EE investments and is recovered through an annual rider mechanism.
(i) Earns a debt return on coal ash expenditures for North Carolina and South Carolina retail customers.
(j) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 21 for additional detail.

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Combined Notes to Consolidated Financial Statements – (Continued)

2017 North Carolina Rate Case

On August 25, 2017, Duke Energy Carolinas filed an application with the NCUC for a rate increase for retail customers of approximately \$647 million, which represents an approximate 13.6 percent increase in annual base revenues. The rate increase is driven by capital investments subsequent to the previous base rate case, including grid improvement projects, AMI, investments in customer service technologies, costs of complying with coal combustion residuals (CCR) regulations and the North Carolina Coal Ash Management Act of 2014 (Coal Ash Act) and recovery of costs related to licensing and development of the William States Lee III Nuclear Station (Lee Nuclear Station) discussed below. On January 23, 2018, the North Carolina Public Staff filed testimony recommending an overall rate decrease of approximately \$290 million. An evidentiary hearing is scheduled to begin on February 27, 2018, and a decision and revised customer rates are expected by mid-2018. Duke Energy Carolinas cannot predict the outcome of this matter.

FERC Formula Rate Matter

On July 31, 2017, Piedmont Municipal Power Agency (PMPA) filed a complaint with FERC against Duke Energy Carolinas alleging that Duke Energy Carolinas misapplied the formula rate under the purchase power agreement (PPA) between the parties by including regulatory amortization in its rates without FERC approval. Duke Energy Carolinas disagreed with PMPA as it believed it was properly applying its FERC filed rate. On February 15, 2018, FERC issued an order ruling in favor of PMPA and ordered Duke Energy Carolinas to refund to PMPA all amounts improperly collected under the PPA. Resolution of this matter is not expected to be material.

Lincoln County Combustion Turbine

On December 7, 2017, the NCUC issued an order approving a Certificate of Public Convenience and Necessity (CPCN) for Duke Energy Carolinas' proposed 402-megawatt (MW) simple cycle, advanced combustion turbine natural gas-fueled electric generating unit at its existing Lincoln County site. The CPCN also includes construction of related transmission and natural gas pipeline interconnection facilities. Construction is scheduled to begin in 2018 with an extended commissioning and validation period from 2020-2024 and an estimated commercial operation date in 2024. As a condition of the approval, Duke Energy Carolinas will not seek recovery of costs associated with the project until it is placed into commercial operation.

Advanced Metering Infrastructure Deferral

On July 12, 2016, the PSCSC issued an accounting order for Duke Energy Carolinas to defer the financial effects of depreciation expense incurred for the installation of AMI meters, the carrying costs on the investment at its weighted average cost of capital (WACC) and the carrying costs on the deferred costs at its WACC not to exceed \$45 million. The decision also allows Duke Energy Carolinas to continue to depreciate the non-AMI meters to be replaced. Current retail rates will not change as a result of the decision and the ability of interested parties to challenge the reasonableness of expenditures in subsequent proceedings is not limited.

William States Lee Combined Cycle Facility

On April 9, 2014, the PSCSC granted Duke Energy Carolinas and North Carolina Electric Membership Corporation (NCEMC) a Certificate of Environmental Compatibility and Public Convenience and Necessity (CECPCN) for the construction and operation of a 750-MW combined-cycle natural gas-fired generating plant at Duke Energy Carolinas' existing William States Lee Generating Station in Anderson, South Carolina. Duke Energy Carolinas began construction in July 2015 and estimates a cost to build of \$600 million for its share of the facility, including allowance for funds used during construction (AFUDC). The project is expected to be commercially available in the first quarter of 2018. NCEMC will own approximately 13 percent of the project. On July 3, 2014, the South Carolina Coastal Conservation League (SCCL) and Southern Alliance for Clean Energy (SACE) jointly filed a Notice of Appeal with the Court of Appeals of South Carolina (S.C. Court of Appeals) seeking the court's review of the PSCSC's decision, claiming the PSCSC did not properly consider a request related to a proposed solar facility prior to granting approval of the CECPCN. The S.C. Court of Appeals affirmed the PSCSC's decision on February 10, 2016, and on March 24, 2016, denied a request for rehearing filed by SCCL and SACE. On April 21, 2016, SCCL and SACE petitioned the South Carolina Supreme Court for review of the S.C. Court of Appeals decision. On March 24, 2017, the South Carolina Supreme Court denied the request for review, thus concluding the matter.

Lee Nuclear Station

In December 2007, Duke Energy Carolinas applied to the NRC for combined operating licenses (COLs) for two Westinghouse AP1000 reactors for the proposed William States Lee III Nuclear Station to be located at a site in Cherokee County, South Carolina. The NCUC and PSCSC concurred with the prudence of Duke Energy Carolinas incurring certain project development and preconstruction costs through several separately issued orders, although full cost recovery is not guaranteed. In December 2016, the NRC issued a COL for each reactor. Duke Energy Carolinas is not required to build the nuclear reactors as result of the COLs being issued.

On March 29, 2017, Westinghouse filed for voluntary Chapter 11 bankruptcy in the U.S. Bankruptcy Court for the Southern District of New York. As part of its 2017 North Carolina Rate Case discussed above, Duke Energy Carolinas is seeking NCUC approval to cancel the development of the Lee Nuclear Station project due to the Westinghouse bankruptcy filing and other market activity and is requesting recovery of incurred licensing and development costs. Duke Energy Carolinas will maintain the license issued by the NRC in December 2016 as an option for potential future development. As of December 31, 2017, Duke Energy Carolinas has incurred approximately \$558 million of costs, including AFUDC, related to the project. These project costs are included in Net property, plant and equipment on Duke Energy Carolinas' Consolidated Balance Sheets. Duke Energy Carolinas cannot predict the outcome of this matter.

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Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Progress

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Progress' Consolidated Balance Sheets.

(in millions)	December 31,		Earnings/Pays a Return	Recovery/Refund Period Ends
	2017	2016		
Regulatory Assets^(a)				
AROs – coal ash	\$ 1,975	\$ 1,822	(i)	(b)
AROs – nuclear and other	359	275		(c)
Accrued pension and OPEB	430	423		(i)
Retired generation facilities	170	165	X	2023
Net regulatory asset related to income taxes	—	7		(d)
Storm cost deferrals ^(e)	150	148	X	(b)
Hedge costs deferrals	64	66		(b)
DSM/EE ^(f)	264	263	(i)	2018
Vacation accrual	42	38		2018
Deferred fuel and purchased power	130	24	(g)	2018
Nuclear deferral	35	38		2019
PISCC and deferred operating expenses	38	42	X	2054
AMI	75	—		(b)
NCEMPA deferrals	53	51	(h)	2042
Other	74	69		(b)
Total regulatory assets	3,859	3,431		
Less: current portion	352	188		
Total noncurrent regulatory assets	\$ 3,507	\$ 3,243		
Regulatory Liabilities^(a)				
Costs of removal	\$ 2,122	\$ 1,840	X	(k)
Net regulatory liability related to income taxes	1,854	—		(b)
Deferred fuel and purchased power	1	64	(g)	2018
Other	161	200		(b)
Total regulatory liabilities	4,138	2,104		
Less: current portion	139	158		
Total noncurrent regulatory liabilities	\$ 3,999	\$ 1,946		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Recovery period for costs related to nuclear facilities runs through the decommissioning period of each unit.
(d) Recovery over the life of the associated assets. Includes regulatory liabilities related to the change in the North Carolina tax rate discussed in Note 22.
(e) South Carolina storm costs are included in rate base.
(f) Included in rate base.
(g) Pays interest on over-recovered costs in North Carolina. Includes certain purchased power costs in North Carolina and South Carolina and costs of distributed energy in South Carolina.
(h) South Carolina retail allocated costs are earning a return.
(i) Earns a debt return on coal ash expenditures for North Carolina and South Carolina retail customers.
(j) Includes incentives on DSM/EE investments.
(k) Recovered over the life of the associated assets.
(l) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 21 for additional detail.

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Combined Notes to Consolidated Financial Statements – (Continued)

2017 North Carolina Rate Case

On June 1, 2017, Duke Energy Progress filed an application with the NCUC for a rate increase for retail customers of approximately \$477 million, which represented an approximate 14.9 percent increase in annual base revenues. Subsequent to the filing, Duke Energy Progress adjusted the requested amount to \$420 million, representing an approximate 13 percent increase. The rate increase is driven by capital investments subsequent to the previous base rate case, costs of complying with CCR regulations and the Coal Ash Act, costs relating to storm recovery, investments in customer service technologies and recovery of costs associated with renewable purchased power. On November 22, 2017, Duke Energy Progress and the North Carolina Public Staff filed an Agreement and Stipulation of Partial Settlement resolving certain portions of the proceeding, pending NCUC approval. Terms of the settlement include a return on equity of 9.9 percent and a capital structure of 52 percent equity and 48 percent debt. As a result of the settlement, in 2017 Duke Energy Progress recorded pretax charges totaling approximately \$25 million to impairment charges and Operation, maintenance and other on the Consolidated Income Statements, principally related to disallowances from rate base of certain projects at the Mayo and Sutton plants. The settlement does not include agreement on portions of the rate case relating to recovery of deferred storm recovery costs and coal ash basin deferred costs, which will be decided by the NCUC separately. Taking into consideration the settled portions and Duke Energy Progress' requested recovery of the non-settled portions, the requested rate increase is reduced to approximately \$300 million. An evidentiary hearing ended December 7, 2017, and a decision and revised customer rates are expected in the first quarter of 2018. Duke Energy Progress cannot predict the outcome of this matter.

Storm Cost Deferral Filings

On December 16, 2016, Duke Energy Progress filed a petition with the NCUC requesting an accounting order to defer certain costs incurred in connection with response to Hurricane Matthew and other significant storms in 2016. The final estimate of incremental operation and maintenance and capital costs of \$116 million was filed with the NCUC in September 2017. On March 15, 2017, the NCUC Public Staff filed comments supporting deferral of a portion of Duke Energy Progress' requested amount. Duke Energy Progress filed reply comments on April 12, 2017. On July 10, 2017, the NCUC consolidated Duke Energy Progress' storm deferral request into the Duke Energy Progress rate case docket for decision. See "2017 North Carolina Rate Case" for additional discussion. As of December 31, 2017, Duke Energy Progress has approximately \$77 million included in Regulatory assets on its Consolidated Balance Sheets. Duke Energy Progress cannot predict the outcome of this matter.

On December 16, 2016, Duke Energy Progress filed a petition with the PSCSC requesting an accounting order to defer certain costs incurred related to repairs and restoration of service following Hurricane Matthew. The final estimate of incremental operation and maintenance and capital costs was approximately \$74 million. In January 2017, the PSCSC approved the deferral request and issued an accounting order. As of December 31, 2017, Duke Energy Progress has approximately \$73 million included in Regulatory assets on its Consolidated Balance Sheets.

South Carolina Rate Case

In December 2016, the PSCSC approved a rate case settlement agreement among the ORS (Office of Regulatory Staff), intervenors and Duke Energy Progress. Terms of the settlement agreement included an approximate \$56 million increase in revenues over a two-year period. An increase of approximately

\$38 million in revenues was effective January 1, 2017, and an additional increase of approximately \$18.5 million in revenues was effective January 1, 2018. Duke Energy Progress amortized approximately \$18.5 million from the cost of removal reserve in 2017. Other settlement terms included a rate of return on equity of 10.1 percent, recovery of coal ash costs incurred from January 1, 2015, through June 30, 2016, over a 15-year period and ongoing deferral of allocated ash basin closure costs from July 1, 2016, until the next base rate case. The settlement also provides that Duke Energy Progress will not seek an increase in rates in South Carolina to occur prior to 2019, with limited exceptions.

Western Carolinas Modernization Plan

On November 4, 2015, Duke Energy Progress announced a Western Carolinas Modernization Plan, which included retirement of the existing Asheville coal-fired plant, the construction of two 280-MW combined-cycle natural gas plants having dual fuel capability, with the option to build a third natural gas simple cycle unit in 2023 based upon the outcome of initiatives to reduce the region's power demand. The plan also included upgrades to existing transmission lines and substations, installation of solar generation and a pilot battery storage project. These investments will be made within the next seven years. Duke Energy Progress is also working with the local natural gas distribution company to upgrade an existing natural gas pipeline to serve the natural gas plant.

On March 28, 2016, the NCUC issued an order approving a CPCN for the new combined-cycle natural gas plants, but denying the CPCN for the contingent simple cycle unit without prejudice to Duke Energy Progress to refile for approval in the future. On March 28, 2017, Duke Energy Progress filed an annual progress report for the construction of the combined-cycle plants with the NCUC, with an estimated cost of \$893 million. Site preparation activities for the combined-cycle plants are underway and construction of these plants began in 2017, with an expected in-service date in late 2019. Duke Energy Progress plans to file for future approvals related to the proposed solar generation and pilot battery storage project.

The carrying value of the 376-MW Asheville coal-fired plant, including associated ash basin closure costs, of \$385 million and \$492 million are included in Generation facilities to be retired, net on Duke Energy Progress' Consolidated Balance Sheets as of December 31, 2017, and 2016, respectively.

Shearon Harris Nuclear Plant Expansion

In 2006, Duke Energy Progress selected a site at Harris to evaluate for possible future nuclear expansion. On February 19, 2008, Duke Energy Progress filed its COL application with the NRC for two Westinghouse AP1000 reactors at Harris, which the NRC docketed for review. On May 2, 2013, Duke Energy Progress filed a letter with the NRC requesting the NRC to suspend its review activities associated with the COL at the Harris site. The NCUC and PSCSC approved deferral of retail costs. Total deferred costs were approximately \$47 million as of December 31, 2017, and are recorded in Regulatory assets on Duke Energy Progress' Consolidated Balance Sheets. On November 17, 2016, the FERC approved Duke Energy Progress' rate recovery request filing for the wholesale ratepayers' share of the abandonment costs, including a debt only return to be recovered through revised formula rates and amortized over a 15-year period beginning May 1, 2014. As part of the settlement agreement for the 2017 North Carolina Rate Case discussed above, Duke Energy Progress will amortize the regulatory asset over an eight-year period. The settlement is subject to NCUC approval. Duke Energy Progress cannot predict the outcome of this matter.

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Florida

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Florida's Consolidated Balance Sheets.

(in millions)	December 31,		Earnings/Pays a Return	Recovery/Refund Period Ends
	2017	2016		
Regulatory Assets^(a)				
AROs – coal ash ^(c)	\$ 9	\$ 8	X	(b)
AROs – nuclear and other ^(c)	296	294	X	(b)
Accrued pension and OPEB ^(c)	476	458	X	(h)
Retired generation facilities ^(c)	216	257	X	(b)
Net regulatory asset related to income taxes ^(c)	—	224	X	(d)
Storm cost deferrals ^(c)	376	—	(f)	2021
Nuclear asset securitized balance, net	1,142	1,193		2036
Hedge costs deferrals	30	25		2018
DSM/EE ^(c)	17	15	X	2018
Deferred fuel and purchased power ^(c)	219	87	(g)	2019
Nuclear deferral	—	96		
AMI ^(c)	75	—	X	2032
Other	36	36		(b)
Total regulatory assets	2,892	2,693		
Less: current portion	389	213		
Total noncurrent regulatory assets	\$ 2,503	\$ 2,480		
Regulatory Liabilities^(a)				
Costs of removal ^(c)	\$ 415	\$ 358	(e)	(b)
Net regulatory liability related to income taxes ^(c)	948	—		(b)
Storm reserve ^(c)	—	60		
Deferred fuel and purchased power ^(c)	—	17	(g)	
Other	18	44		(b)
Total regulatory liabilities	1,381	479		
Less: current portion	74	31		
Total noncurrent regulatory liabilities	\$ 1,307	\$ 448		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Included in rate base.
(d) Recovery over the life of the associated assets.
(e) Certain costs earn a return.
(f) Earns a debt return/interest once collections begin.
(g) Earns commercial paper rate.
(h) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 21 for additional detail.

Storm Restoration Cost Recovery

In September 2017, Duke Energy Florida's service territory suffered significant damage from Hurricane Irma, resulting in approximately 1.3 million customers experiencing outages. In the fourth quarter of 2017, Duke Energy Florida also incurred preparation costs related to Hurricane Nate. On December 28, 2017, Duke Energy Florida filed a petition with the FPSC to recover incremental storm restoration costs for Hurricanes Irma and Nate and to replenish the storm reserve. The estimated recovery amount is approximately \$513 million to be recovered over a three-year period beginning in March 2018, subject to true up, which includes reestablishment of a \$132 million storm reserve. At December 31, 2017, Duke Energy Florida's Consolidated Balance Sheets included approximately \$376 million of recoverable costs under the FPSC's storm rule in Regulatory assets within Other Noncurrent Assets related

to storm recovery. On February 6, 2018, the FPSC approved Duke Energy Florida's motion to approve a stipulation that would apply tax savings resulting from the Tax Act toward storm costs in lieu of implementing a storm surcharge.

2017 Second Revised and Restated Settlement Agreement

On November 20, 2017, the FPSC issued an order to approve the 2017 Second Revised and Restated Settlement Agreement (2017 Settlement) filed by Duke Energy Florida. The 2017 Settlement replaces and supplants the 2013 Settlement. The 2017 Settlement extends the base rate case stay-out provision from the 2013 Settlement through the end of 2021 unless actual or projected return on equity falls below 9.5 percent; however, Duke Energy Florida is allowed a multiyear increase to its base rates of \$67 million per year in 2019, 2020 and 2021, as well as base rate increases for solar generation. In addition to

Combined Notes to Consolidated Financial Statements – (Continued)

carrying forward the provisions contained in the 2013 Settlement related to the Crystal River 1 and 2 coal units discussed below and future generation needs in Florida, the 2017 Settlement contains provisions related to future investments in solar and renewable energy technology, future investments in AMI technology as well as recovery of existing meters, impacts of the Tax Act, an electric vehicle charging station pilot program and the termination of the proposed Levy Nuclear Project discussed below. As part of the 2017 Settlement, Duke Energy Florida will not move forward with building the Levy nuclear plant and recorded a pretax impairment charge of approximately \$135 million in 2017 to write off all unrecovered Levy Nuclear Project costs, including the COL. As a result of the 2017 Settlement, Duke Energy Florida transferred \$75 million to a regulatory asset for the net book value of existing meter technology, which will be recovered over a 15-year period.

The 2017 Settlement includes provisions to recover 2017 under-recovered fuel costs of approximately \$196 million over a 24-month period beginning in January 2018. On September 1, 2017, Duke Energy Florida submitted Alternate 2018 Fuel and Capacity clause projection filings consistent with the terms of the 2017 Settlement. The updated capacity filing reflects the removal of all Levy costs. The FPSC approved Duke Energy Florida's 2018 Alternate projection filings on October 25, 2017.

Hines Chiller Uprate Project

On February 2, 2017, Duke Energy Florida filed a petition seeking approval to include in base rates the revenue requirement for a Chiller Uprate Project (Uprate Project) at the Hines Energy Complex. The Uprate Project was placed into service in March 2017 at a cost of approximately \$150 million. The annual retail revenue requirement is approximately \$19 million. On March 28, 2017, the FPSC issued an order approving the revenue requirement, which was included in base rates for the first billing cycle of April 2017.

Citrus County Combined Cycle Facility

On October 2, 2014, the FPSC granted Duke Energy Florida a Determination of Need for the construction of a 1,640-MW combined-cycle natural gas plant in Citrus County, Florida. On May 5, 2015, the Florida Department of Environmental Protection approved Duke Energy Florida's Site Certification Application. The project has received all required permits and approvals and construction began in October 2015. The facility is expected to be commercially available in 2018 at an estimated cost of \$1.5 billion, including AFUDC. The plant will receive natural gas from the Sabal Trail Transmission, LLC (Sabal Trail) pipeline discussed below.

Purchase of Osprey Energy Center

Duke Energy Florida received a Civil Investigative Demand from the Department of Justice (DOJ) related to alleged violation of the waiting period for the Hart-Scott-Rodino Antitrust Improvements Act of 1976 related to the purchase of the Osprey Energy Center, LLC, which was completed in January 2017. The DOJ alleged Duke Energy Florida assumed operational control of the Osprey Plant before the waiting period expiration on February 27, 2015. On January 17, 2017, Duke Energy Florida entered into a stipulation agreement to settle with the DOJ for \$600,000 without admission of liability. On January 18, 2017, the DOJ filed a complaint and the stipulation in the U.S. District Court for the District of Columbia, which was approved by the court. A final order dismissing the case was entered in April 2017.

Crystal River Unit 3

In December 2014, the FPSC approved Duke Energy Florida's decision to construct an independent spent fuel storage installation (ISFSI) for the retired Crystal River Unit 3 nuclear plant and approved Duke Energy Florida's request to defer amortization of the ISFSI pending resolution of litigation against the federal government as a result of the Department of Energy's breach of its obligation to accept spent nuclear fuel. The return rate is based on the currently approved AFUDC rate with a return on equity of 7.35 percent, or 70 percent of the currently approved 10.5 percent. The return rate is subject to change if the return on equity changes in the future. In September 2016, the FPSC approved an amendment to the 2013 Settlement authorizing recovery of the ISFSI through the Capacity Cost Recovery Clause. Through December 31, 2017, Duke Energy Florida has deferred approximately \$113 million for recovery associated with building the ISFSI. See Note 5 for additional information on spent nuclear fuel litigation.

The regulatory asset associated with the original Crystal River Unit 3 power uprate project will continue to be recovered through the NCRC over an estimated seven-year period that began in 2013 with a remaining uncollected balance of \$87 million at December 31, 2017.

Crystal River Unit 3 Regulatory Asset

On September 15, 2015, the FPSC approved Duke Energy Florida's motion for approval of a settlement agreement with intervenors to reduce the value of the projected Crystal River Unit 3 regulatory asset to be recovered to \$1.283 billion as of December 31, 2015. An impairment charge of \$15 million was recognized in 2015 to adjust the regulatory asset balance. In November 2015, the FPSC issued a financing order approving Duke Energy Florida's request to issue nuclear asset-recovery bonds to finance its unrecovered regulatory asset related to Crystal River Unit 3 through a wholly owned special purpose entity. Nuclear asset-recovery bonds replace the base rate recovery methodology authorized by the 2013 Settlement and result in a lower rate impact to customers with a recovery period of approximately 20 years.

Pursuant to provisions in Florida Statutes and the FPSC financing order, in 2016, Duke Energy Florida formed Duke Energy Florida Project Finance, LLC (DEFPF), a wholly owned, bankruptcy remote special purpose subsidiary for the purpose of issuing nuclear asset-recovery bonds. In June 2016, DEFPF issued \$1,294 million aggregate principal amount of senior secured bonds (nuclear asset-recovery bonds) to finance the recovery of Duke Energy Florida's Crystal River 3 regulatory asset.

In connection with this financing, net proceeds to DEFPF of approximately \$1,287 million, after underwriting costs, were used to acquire nuclear asset-recovery property from Duke Energy Florida and to pay transaction related expenses. The nuclear asset-recovery property includes the right to impose, bill, collect and adjust a non-bypassable nuclear asset-recovery charge, to be collected on a per kilowatt-hour basis, from all Duke Energy Florida retail customers until the bonds are paid in full. Duke Energy Florida began collecting the nuclear asset-recovery charge on behalf of DEFPF in customer rates in July 2016.

See Note 17 for additional information.

Levy Nuclear Project

On July 28, 2008, Duke Energy Florida applied to the NRC for COLs for two Westinghouse AP1000 reactors at Levy (Levy Nuclear Project). In 2008, the FPSC granted Duke Energy Florida's petition for an affirmative Determination of Need and related orders requesting cost recovery under Florida's nuclear cost-recovery rule, together with the associated facilities, including transmission lines and substation facilities. In October 2016, the NRC issued

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

COLs for the proposed Levy Nuclear Plant Units 1 and 2. Duke Energy Florida is not required to build the nuclear reactors as a result of the COLs being issued.

On January 28, 2014, Duke Energy Florida terminated the Levy engineering, procurement and construction agreement (EPC). Duke Energy Florida may be required to pay for work performed under the EPC. Duke Energy Florida recorded an exit obligation in 2014 for the termination of the EPC. This liability was recorded within Other in Other Noncurrent Liabilities with an offset primarily to Regulatory assets on the Consolidated Balance Sheets. Duke Energy Florida is allowed to recover reasonable and prudent EPC cancellation costs from its retail customers. On May 1, 2017, Duke Energy Florida filed a request with the FPSC to recover approximately \$82 million of Levy Nuclear Project costs from retail customers in 2018. As part of the 2017 Settlement discussed above,

Duke Energy Florida is no longer seeking recovery of costs related to the Levy Nuclear Project and the ongoing Westinghouse litigation discussed in Note 5. All remaining Levy Nuclear Project issues have been resolved.

Crystal River 1 and 2 Coal Units

Duke Energy Florida has evaluated Crystal River 1 and 2 coal units for retirement in order to comply with certain environmental regulations. Based on this evaluation, those units are expected to be retired by the end of 2018. Once those units are retired Duke Energy Florida will continue recovery of existing annual depreciation expense through the end of 2020. Beginning in 2021, Duke Energy Florida will be allowed to recover any remaining net book value of the assets from retail customers through the Capacity Cost Recovery Clause.

Duke Energy Ohio

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Ohio's Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2017	2016		
Regulatory Assets^(a)				
AROs — coal ash	\$ 17	\$ 12	X	(b)
Accrued pension and OPEB	139	135		(g)
Net regulatory asset related to income taxes ^(c)	—	63		(d)
Storm cost deferrals	5	5		(b)
Hedge costs deferrals	6	7		(b)
DSM/EE	18	6	(f)	(e)
Grid modernization	39	65	X	(e)
Vacation accrual	5	4		2018
Deferred fuel and purchased power	—	5		
PISCC and deferred operating expenses ^(c)	19	20	X	2083
Transmission expansion obligation	50	71		(e)
MGP	91	99		(b)
AMI	6	—		(b)
East Bend deferrals	45	32	X	(b)
Deferred pipeline integrity costs	12	7	X	(b)
Other	42	26		(b)
Total regulatory assets	494	557		
Less: current portion	49	37		
Total noncurrent regulatory assets	\$ 445	\$ 520		
Regulatory Liabilities^(a)				
Costs of removal	\$ 189	\$ 212		(d)
Net regulatory liability related to income taxes	688	—		(b)
Accrued pension and OPEB	16	19		(g)
Deferred fuel and purchased power	—	6		
Other	34	20		(b)
Total regulatory liabilities	927	257		
Less: current portion	36	21		
Total noncurrent regulatory liabilities	\$ 891	\$ 236		

(a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.

(b) The expected recovery or refund period varies or has not been determined.

(c) Included in rate base.

(d) Recovery over the life of the associated assets.

(e) Recovered via a rider mechanism.

(f) Includes incentives on DSM/EE investments.

(g) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 21 for additional detail.

Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Kentucky Rate Case

On September 1, 2017, Duke Energy Kentucky filed a rate case with the KPSC requesting an increase in electric base rates of approximately \$49 million, which represents an approximate 15 percent increase on the average customer bill. The rate increase is driven by increased investment in utility plant, increased operations and maintenance expenses and recovery of regulatory assets. The application also includes implementation of the Environmental Surcharge Mechanism to recover environmental costs not included in base rates, requests to establish a Distribution Capital Investment Rider to recover incremental costs of specific programs, requests to establish a FERC Transmission Cost Reconciliation Rider to recover escalating transmission costs and modification to the Profit Sharing Mechanism to increase customers' share of proceeds from the benefits of owning generation and to mitigate shareholder risks associated with that generation. An evidentiary hearing is scheduled to begin on March 6, 2018. Duke Energy Kentucky anticipates that rates will go into effect in mid-April 2018. Duke Energy Kentucky cannot predict the outcome of this matter.

2017 Electric Security Plan

On June 1, 2017, Duke Energy Ohio filed with the PUCO a request for a standard service offer in the form of an electric security plan (ESP). If approved by the PUCO, the term of the ESP would be from June 1, 2018, to May 31, 2024. Terms of the ESP include continuation of market-based customer rates through competitive procurement processes for generation, continuation and expansion of existing rider mechanisms and proposed new rider mechanisms relating to regulatory mandates, costs incurred to enhance the customer experience and transform the grid and a service reliability rider for vegetation management. On February 15, 2018, the procedural schedule was suspended to facilitate ongoing settlement discussions. Duke Energy Ohio cannot predict the outcome of this matter.

Woodsdale Station Fuel System Filing

On June 9, 2015, the FERC ruled in favor of PJM Interconnection, LLC (PJM) on a revised Tariff and Reliability Assurance Agreement including implementation of a Capacity Performance (CP) proposal and to amend sections of the Operating Agreement related to generation non-performance. The CP proposal includes performance-based penalties for non-compliance. Duke Energy Kentucky is a Fixed Resource Requirement (FRR) entity, and therefore is subject to the compliance standards through its FRR plans. A partial CP obligation will apply to Duke Energy Kentucky in the delivery year beginning June 1, 2019, with full compliance beginning June 1, 2020. Duke Energy Kentucky has developed strategies for CP compliance investments. On December 21, 2017, the KPSC issued an order approving Duke Energy Kentucky's request for a CPCN to construct an ultra-low sulfur diesel backup fuel system for the Woodsdale Station. The backup fuel system is projected to cost approximately \$55 million and is anticipated to be in service prior to the CP compliance deadline of April 2019.

Ohio Valley Electric Corporation

On March 31, 2017, Duke Energy Ohio filed for approval to adjust its existing price stabilization rider (Rider PSR), which is currently set at zero dollars, to pass through net costs related to its contractual entitlement to capacity and energy from the generating assets owned by OVEC. The filing seeks to adjust Rider PSR for OVEC costs subsequent to April 1, 2017. Duke Energy Ohio is seeking deferral authority for net costs incurred from April 1, 2017, until the new rates under Rider PSR are put into effect. Various intervenors have filed

motions to dismiss or stay the proceeding and Duke Energy Ohio has opposed these filings. See Note 13 for additional discussion of Duke Energy Ohio's ownership interest in OVEC. Duke Energy Ohio cannot predict the outcome of this matter.

East Bend Coal Ash Basin Filing

On December 2, 2016, Duke Energy Kentucky filed with the KPSC a request for a CPCN for construction projects necessary to close and repurpose an ash basin at the East Bend facility as a result of current and proposed EPA regulations. Duke Energy Kentucky estimated a total cost of approximately \$93 million in the filing and expects in-service date by the first quarter of 2021. On June 6, 2017, the KPSC approved the CPCN request.

Electric Base Rate Case

Duke Energy Ohio filed with the PUCO an electric distribution base rate case application and supporting testimony in March 2017. Duke Energy Ohio requested an estimated annual increase of approximately \$15 million and a return on equity of 10.4 percent. The application also includes requests to continue certain current riders and establish new riders. On September 26, 2017, the PUCO staff filed a report recommending a revenue decrease between approximately \$18 million and \$29 million and a return on equity between 9.22 percent and 10.24 percent. On February 15, 2018, the procedural schedule was suspended to facilitate ongoing settlement discussions. Duke Energy Ohio expects rates will go into effect the second quarter of 2018. Duke Energy Ohio cannot predict the outcome of this matter.

Natural Gas Pipeline Extension

Duke Energy Ohio is proposing to install a new natural gas pipeline in its Ohio service territory to increase system reliability and enable the retirement of older infrastructure. On January 20, 2017, Duke Energy Ohio filed an amended application with the Ohio Power Siting Board for approval of one of two proposed routes. A public hearing was held on June 15, 2017, and an adjudicatory hearing was scheduled to begin September 11, 2017. On August 24, 2017, an administrative law judge (ALJ) granted a request made by Duke Energy Ohio to delay the procedural schedule while it works through various issues related to the pipeline route. If approved, construction of the pipeline extension is expected to be completed before the 2020/2021 winter season. The proposed project involves the installation of a natural gas line and is estimated to cost approximately \$110 million, excluding AFUDC.

Advanced Metering Infrastructure

On April 25, 2016, Duke Energy Kentucky filed with the KPSC an application for approval of a CPCN for the construction of advanced metering infrastructure. Duke Energy Kentucky estimates the \$49 million project will take two years to complete. Duke Energy Kentucky also requested approval to establish a regulatory asset for the remaining book value of existing meter equipment and inventory to be replaced. Duke Energy Kentucky and the Kentucky attorney general entered into a stipulation to settle matters related to the application. On May 25, 2017, the KPSC issued an order to approve the stipulation with certain modifications. On June 1, 2017, Duke Energy Kentucky filed its acceptance of the modifications. The deployment of AMI meters began in third quarter 2017 and is expected to be completed in early 2019. Duke Energy Ohio has approximately \$6 million included in Regulatory assets on its Consolidated Balance Sheets at December 31, 2017, for the book value of existing meter equipment.

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Combined Notes to Consolidated Financial Statements – (Continued)

Accelerated Natural Gas Service Line Replacement Rider

On January 20, 2015, Duke Energy Ohio filed an application for approval of an accelerated natural gas service line replacement program (ASRP). Under the ASRP, Duke Energy Ohio proposed to replace certain natural gas service lines on an accelerated basis over a 10-year period. Duke Energy Ohio also proposed to complete preliminary survey and investigation work related to natural gas service lines that are customer owned and for which it does not have valid records and, further, to relocate interior natural gas meters to suitable exterior locations where such relocation can be accomplished. Duke Energy Ohio's projected total capital and operations and maintenance expenditures under the ASRP were approximately \$240 million. The filing also sought approval of a rider mechanism (Rider ASRP) to recover related expenditures. Duke Energy Ohio proposed to update Rider ASRP on an annual basis. Intervenor's opposed the ASRP, primarily because they believe the program is neither required nor necessary under federal pipeline regulation. On October 26, 2016, the PUCO issued an order denying the proposed ASRP. Duke Energy Ohio's application for rehearing of the PUCO decision was denied on May 17, 2017.

Energy Efficiency Cost Recovery

On March 28, 2014, Duke Energy Ohio filed an application for recovery of program costs, lost distribution revenue and performance incentives related to its energy efficiency and peak demand reduction programs. These programs are undertaken to comply with environmental mandates set forth in Ohio law. The PUCO approved Duke Energy Ohio's application but found that Duke Energy Ohio was not permitted to use banked energy savings from previous years in order to calculate the amount of allowed incentive. This conclusion represented a change to the cost recovery mechanism that had been agreed upon by intervenors and approved by the PUCO in previous cases. The PUCO granted the applications for rehearing filed by Duke Energy Ohio and an intervenor. On January 6, 2016, Duke Energy Ohio and the PUCO Staff entered into a stipulation, pending the PUCO's approval, to resolve issues related to performance incentives and the PUCO Staff audit of 2013 costs, among other issues. In December 2015, based upon the stipulation, Duke Energy Ohio re-established approximately \$20 million of the revenues that had been previously reversed. On October 26, 2016, the PUCO issued an order approving the stipulation without modification. In December 2016, the PUCO granted the intervenors request for rehearing for the purpose of further review. Duke Energy Ohio cannot predict the outcome of this matter.

On June 15, 2016, Duke Energy Ohio filed an application for approval of a three-year energy efficiency and peak demand reduction portfolio of programs. A stipulation and modified stipulation were filed on December 22, 2016, and January 27, 2017, respectively. Under the terms of the stipulations, which included support for deferral authority of all costs and a cap on shared savings incentives, Duke Energy Ohio offered its energy efficiency and peak demand reduction programs throughout 2017. On February 3, 2017, Duke Energy Ohio filed for deferral authority of its costs incurred in 2017 in respect of its proposed energy efficiency and peak demand reduction portfolio. On September 27, 2017, the PUCO issued an order approving a modified stipulation. The modifications impose an annual cap of approximately \$38 million on program costs and shared savings incentives combined, but allowed for Duke Energy Ohio to file for a waiver of costs in excess of the cap in 2017. The PUCO approved the waiver request up to a total cost of \$56 million. On November 21, 2017, the PUCO granted Duke Energy Ohio's and intervenor's applications for rehearing of the September 27, 2017, order. On January 10, 2018, the PUCO denied the Ohio Consumers' Counsel's application for rehearing of the PUCO order granting Duke Energy Ohio's waiver request. Duke Energy Ohio cannot predict the outcome of this matter.

2014 Electric Security Plan

In April 2015, the PUCO modified and approved Duke Energy Ohio's proposed electric security plan (ESP), with a three-year term and an effective date of June 1, 2015. The PUCO approved a competitive procurement process for SSO load, a distribution capital investment rider and a tracking mechanism for incremental distribution expenses caused by major storms. The PUCO also approved a placeholder tariff for a price stabilization rider, but denied Duke Energy Ohio's specific request to include Duke Energy Ohio's entitlement to generation from OVEC in the rider at this time; however, the order allows Duke Energy Ohio to submit additional information to request recovery in the future. On May 4, 2015, Duke Energy Ohio filed an application for rehearing requesting the PUCO to modify or amend certain aspects of the order. On May 28, 2015, the PUCO granted all applications for rehearing filed in the case for future consideration. Duke Energy Ohio cannot predict the outcome of the appeals in this matter.

2012 Natural Gas Rate Case/MGP Cost Recovery

On November 13, 2013, the PUCO issued an order approving a settlement of Duke Energy Ohio's natural gas base rate case and authorizing the recovery of costs incurred between 2008 and 2012 for environmental investigation and remediation of two former MGP sites. The PUCO order also authorized Duke Energy Ohio to continue deferring MGP environmental investigation and remediation costs incurred subsequent to 2012 and to submit annual filings to adjust the MGP rider for future costs. Intervenor's parties appealed this decision to the Ohio Supreme Court and on June 29, 2017, the Ohio Supreme Court issued its decision affirming the PUCO order. Appellants filed a request for reconsideration, which was denied on September 27, 2017. This matter is now final.

The PUCO order also contained deadlines for completing the MGP environmental investigation and remediation costs at the MGP sites. For the property known as the East End site, the PUCO order established a deadline of December 31, 2016, which was subsequently extended to December 31, 2019. In January 2017, intervenor's parties filed for rehearing of the PUCO's decision. On February 8, 2017, the PUCO denied the rehearing request. As of December 31, 2017, Duke Energy Ohio had approximately \$35 million included in Regulatory assets on the Consolidated Balance Sheets for future remediation costs expected to be incurred at the East End site.

Regional Transmission Organization Realignment

Duke Energy Ohio, including Duke Energy Kentucky, transferred control of its transmission assets from MISO to PJM Interconnection, LLC (PJM), effective December 31, 2011. The PUCO approved a settlement related to Duke Energy Ohio's recovery of certain costs of the Regional Transmission Organization (RTO) realignment via a non-bypassable rider. Duke Energy Ohio is allowed to recover all MISO Transmission Expansion Planning (MTEP) costs, including but not limited to Multi Value Project (MVP) costs, directly or indirectly charged to Ohio customers. Duke Energy Ohio also agreed to vigorously defend against any charges for MVP projects from MISO. The KPSC also approved a request to effect the RTO realignment, subject to a commitment not to seek double recovery in a future rate case of the transmission expansion fees that may be charged by MISO and PJM in the same period or overlapping periods.

The following table provides a reconciliation of the beginning and ending balance of Duke Energy Ohio's recorded liability for its exit obligation and share of MTEP costs, excluding MVP, recorded within Other in Current liabilities and Other in Other Noncurrent Liabilities on the Consolidated Balance Sheets. The retail portions of MTEP costs billed by MISO are recovered by Duke Energy Ohio through a non-bypassable rider. As of December 31, 2017, and 2016, \$50 million and \$71 million are recorded in Regulatory assets on Duke Energy Ohio's Consolidated Balance Sheets, respectively.

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	December 31, 2016	Provisions/ Adjustments	Cash Reductions	December 31, 2017
Duke Energy Ohio	\$ 90	\$ (20)	\$ (4)	\$ 66

MVP. MISO approved 17 MVP proposals prior to Duke Energy Ohio's exit from MISO on December 31, 2011. Construction of these projects is expected to continue through 2020. Costs of these projects, including operating and maintenance costs, property and income taxes, depreciation and an allowed return, are allocated and billed to MISO transmission owners.

On December 29, 2011, MISO filed a tariff with the FERC providing for the allocation of MVP costs to a withdrawing owner based on monthly energy usage. The FERC set for hearing (i) whether MISO's proposed cost allocation methodology to transmission owners who withdrew from MISO prior to January 1, 2012, is consistent with the tariff at the time of their withdrawal from MISO and, (ii) if not, what the amount of and methodology for calculating any MVP cost responsibility should be. In 2012, MISO estimated Duke Energy Ohio's MVP obligation over the period from 2012 to 2071 at \$2.7 billion, on an undiscounted basis. On July 16, 2013, a FERC Administrative Law Judge (ALJ) issued an initial

decision. Under this initial decision, Duke Energy Ohio would be liable for MVP costs. Duke Energy Ohio filed exceptions to the initial decision, requesting FERC to overturn the ALJ's decision.

On October 29, 2015, the FERC issued an order reversing the ALJ's decision. The FERC ruled the cost allocation methodology is not consistent with the MISO tariff and that Duke Energy Ohio has no liability for MVP costs after its withdrawal from MISO. On May 19, 2016, the FERC denied the request for rehearing filed by MISO and the MISO Transmission Owners. On July 15, 2016, the MISO Transmission Owners filed a petition for review with the U.S. Court of Appeals for the Sixth Circuit. On June 21, 2017, a three-judge panel affirmed FERC's 2015 decision holding that Duke Energy Ohio has no liability for the cost of the MVP projects constructed after Duke Energy Ohio's withdrawal from MISO. MISO did not file further petitions for review and this matter is now final.

Duke Energy Indiana

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Indiana's Consolidated Balance Sheets.

(in millions)	December 31,		Earnings/Pays a Return	Recovery/Refund Period Ends
	2017	2016		
Regulatory Assets^(a)				
AROs – coal ash	\$ 380	\$ 276		(b)
Accrued pension and OPEB	197	222		(g)
Retired generation facilities ^(c)	65	73	X	2025
Net regulatory asset related to income taxes	—	119		(d)
Hedge costs deferrals	25	26		(b)
DSM/EE	21	—	(e)	(e)
Vacation accrual	11	10		2018
Deferred fuel and purchased power	18	40		2018
PISCC and deferred operating expenses ^(c)	274	281	X	(b)
Gasification services agreement buyout ^(f)	—	8		
AMI ^(c)	21	46	X	(b)
Other	131	121		(b)
Total regulatory assets	1,143	1,222		
Less: current portion	165	149		
Total noncurrent regulatory assets	\$ 978	\$ 1,073		
Regulatory Liabilities^(a)				
Costs of removal	\$ 644	\$ 660		(d)
Net regulatory liability related to income taxes	998	—		(b)
Amounts to be refunded to customers	10	45		2018
Accrued pension and OPEB	64	72		(g)
Other	31	11		(b)
Total regulatory liabilities	1,747	788		
Less: current portion	24	40		
Total noncurrent regulatory liabilities	\$ 1,723	\$ 748		

(a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.

(b) The expected recovery or refund period varies or has not been determined.

(c) Included in rate base.

(d) Recovery over the life of the associated assets.

(e) Includes incentives on DSM/EE investments and is recovered through a tracker mechanism over a two-year period.

(f) The IURC authorized Duke Energy Indiana to recover costs incurred to buy out a gasification services agreement, including carrying costs through 2017.

(g) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 21 for additional detail.

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Combined Notes to Consolidated Financial Statements – (Continued)

Coal Combustion Residual Plan

On March 17, 2016, Duke Energy Indiana filed with the IURC a request for approval of its first group of federally mandated CCR rule compliance projects (Phase I CCR Compliance Projects) to comply with the EPA's CCR rule. The projects in this Phase I filing are CCR compliance projects, including the conversion of Cayuga and Gibson stations to dry bottom ash handling and related water treatment. Duke Energy Indiana requested timely recovery of approximately \$380 million in retail capital costs, including AFUDC, and recovery of incremental operating and maintenance costs under a federal mandate tracker that provides for timely recovery of 80 percent of such costs and deferral with carrying costs of 20 percent of such costs for recovery in a subsequent retail base rate case. On January 24, 2017, Duke Energy Indiana and various intervenors filed a settlement agreement with the IURC. Terms of the settlement include recovery of 60 percent of the estimated CCR compliance construction project capital costs through existing rider mechanisms and deferral of 40 percent of these costs until Duke Energy Indiana's next general retail rate case. The deferred costs will earn a return based on Duke Energy Indiana's long-term debt rate of 4.73 percent until costs are included in retail rates, at which time the deferred costs will earn a full return. Costs are to be capped at \$365 million, plus actual AFUDC. Costs above the cap would be considered for recovery in the next rate case. Terms of the settlement agreement also require Duke Energy Indiana to perform certain reporting and groundwater monitoring. On May 24, 2017, the IURC approved the settlement agreement.

Edwardsport Integrated Gasification Combined Cycle Plant

Costs for the Edwardsport Integrated Gasification Combined Cycle (IGCC) Plant are recovered from retail electric customers via a tracking mechanism (IGCC rider) with updates filed by Duke Energy Indiana. The IGCC Plant was placed into commercial operation in June 2013.

On August 24, 2016, the IURC approved a settlement (IGCC Settlement) among Duke Energy Indiana and several intervenors to resolve disputes related to five IGCC riders (the 11th through 15th) and a subdocket to Duke Energy Indiana's fuel adjustment clause. The IGCC settlement resulted in customers not being billed for previously incurred plant operating costs of \$87.5 million and payments and commitments from Duke Energy Indiana of \$5.5 million for attorneys' fees and consumer programs funding. Duke Energy Indiana recognized pretax impairment and related charges of \$93 million in 2015. Additionally, under the IGCC settlement, the recovery of operating and maintenance expenses and ongoing maintenance capital at the plant were subject to certain caps during the years of 2016 and 2017. The IGCC settlement also included a commitment to either retire or stop burning coal by December 31, 2022, at the Gallagher Station. Pursuant to the IGCC settlement, the in-service date used for accounting and ratemaking will remain as June 2013. Remaining deferred costs will be recovered over eight years beginning in 2016 and not earn a carrying cost. As of December 31, 2017, deferred costs related to the project are approximately \$152 million and are included in Regulatory assets in Current Assets and Other Noncurrent Assets on Duke Energy Indiana's Consolidated Balance Sheets. Under the IGCC settlement, future IGCC riders will be filed annually with the next filing scheduled for first quarter 2018.

The ninth semi-annual IGCC rider order was appealed by various intervenors and the matter was remanded to the IURC for further proceedings and additional findings on a tax in-service issue. On February 2, 2017, the IURC issued an order upholding the original decision, finding that an estimate of impact on customer rates due to the federal income tax in-service determination was reasonable.

FERC Transmission Return on Equity Complaint

Customer groups have filed with the FERC complaints against MISO and its transmission-owning members, including Duke Energy Indiana, alleging, among other things, that the current base rate of return on equity earned by MISO transmission owners of 12.38 percent is unjust and unreasonable. The complaints claim, among other things, that the current base rate of return on equity earned by MISO transmission owners should be reduced to 8.67 percent. On January 5, 2015, the FERC issued an order accepting the MISO transmission owners' adder of 0.50 percent to the base rate of return on equity based on participation in an RTO subject to it being applied to a return on equity that is shown to be just and reasonable in the pending return on equity complaints. On December 22, 2015, the presiding FERC ALJ in the first complaint issued an Initial Decision in which the base rate of return on equity was set at 10.32 percent. On September 28, 2016, the Initial Decision in the first complaint was affirmed by FERC, but is subject to rehearing requests. On June 30, 2016, the presiding FERC ALJ in the second complaint issued an Initial Decision setting the base rate of return on equity at 9.70 percent. The Initial Decision in the second complaint is pending FERC review. On April 14, 2017, the U.S. Court of Appeals for the District of Columbia Circuit, in *Emera Maine v. FERC*, reversed and remanded certain aspects of the methodology employed by FERC to establish rates of return on equity. This decision may affect the outcome of the complaints against Duke Energy Indiana. Duke Energy Indiana currently believes these matters will not have a material impact on its results of operations, cash flows and financial position.

Grid Infrastructure Improvement Plan

On December 7, 2015, Duke Energy Indiana filed a grid infrastructure improvement plan with an estimated cost of \$1.8 billion in response to guidance from IURC orders and the Indiana Court of Appeals decisions related to a new statute. The plan uses a combination of advanced technology and infrastructure upgrades to improve service to customers and provide them with better information about their energy use. It also provides for cost recovery through a transmission and distribution rider (T&D Rider). In March 2016, Duke Energy Indiana entered into a settlement with all parties to the proceeding except the Citizens Action Coalition of Indiana, Inc. The settlement agreement decreased the capital expenditures eligible for timely recovery of costs in the seven-year plan to approximately \$1.4 billion, including the removal of an AMI project. Under the settlement, the return on equity to be used in the T&D Rider is 10 percent. The IURC approved the settlement and issued a final order on June 29, 2016. The order was not appealed and the proceeding is concluded.

The settlement agreement provided for deferral accounting for depreciation and post-in-service carrying costs for AMI projects outside the plan. Duke Energy Indiana withdrew its request for a regulatory asset for current meters and will retain any savings associated with future AMI installation until the next retail base rate case, which is required to be filed prior to the end of the plan. During the third quarter of 2016, Duke Energy Indiana decided to implement the AMI project. This decision resulted in a pretax impairment charge related to existing or non-AMI meters of approximately \$8 million in 2016, based in part on the requirement to file a base rate case in 2022 under the approved plan. Duke Energy Indiana evaluates the need for rate cases as part of its business planning, based on the outlook of emerging costs, ongoing investment and impact related to the Tax Act enacted in late 2017 and expects to file a rate case prior to the 2022 requirement. As a result, in 2017, Duke Energy Indiana recorded an additional impairment charge of approximately \$22 million. As of December 31, 2017, Duke Energy Indiana's remaining net book value of non-AMI meters is approximately \$21 million and will be depreciated through July 2020.

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

Benton County Wind Farm Dispute

On December 16, 2013, Benton County Wind Farm LLC (BCWF) filed a lawsuit against Duke Energy Indiana seeking damages for past generation losses alleging Duke Energy Indiana violated its obligations under a 2006 PPA by refusing to offer electricity to the market at negative prices. Damage claims continue to increase during times that BCWF is not dispatched. Under 2013 revised MISO market rules, Duke Energy Indiana is required to make a price offer to MISO for the power it proposes to sell into MISO markets and MISO determines whether BCWF is dispatched. Because market prices would have been negative due to increased market participation, Duke Energy Indiana determined it would not bid at negative prices in order to balance customer needs against BCWF's need to run. BCWF contends Duke Energy Indiana must bid at the lowest negative price to ensure dispatch, while Duke Energy

Indiana contends it is not obligated to bid at any particular price, that it cannot ensure dispatch with any bid and that it has reasonably balanced the parties' interests. On July 6, 2015, the U.S. District Court for the Southern District of Indiana entered judgment against BCWF on all claims. BCWF appealed the decision and on December 9, 2016, the appeals court ruled in favor of BCWF. Duke Energy Indiana recorded an obligation and a regulatory asset related to the settlement amount in fourth quarter 2016. On June 30, 2017, the parties finalized a settlement agreement. Terms of the settlement included Duke Energy Indiana paying \$29 million for back damages. Additionally, the parties agreed on the method by which the contract will be bid into the market in the future. The settlement amount was paid in June 2017. The IURC issued an order on September 27, 2017, approving recovery of the settlement amount through Duke Energy Indiana's fuel clause. The IURC order has been appealed to the Indiana Court of Appeals. Duke Energy Indiana cannot predict the outcome of this matter.

Piedmont

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Piedmont's Consolidated Balance Sheets.

(in millions)	December 31,		Earnings/Pays a Return	Recovery/Refund Period Ends
	2017	2016		
Regulatory Assets^(a)				
AROs – other	\$ 15	\$ 14		(d)
Accrued pension and OPEB ^(c)	91	166		(f)
Derivatives - gas supply contracts	142	187		(e)
Vacation accrual ^(c)	10	13		2018
Deferred pipeline integrity costs ^(c)	42	36		2018
Amount due from customers	64	66	X	(b)
Other	14	15		(b)
Total regulatory assets	378	497		
Less: current portion	95	124		
Total noncurrent regulatory assets	\$ 283	\$ 373		
Regulatory Liabilities^(a)				
Costs of removal	\$ 544	\$ 528		(d)
Net regulatory liability related to income taxes	597	80		(b)
Other	3	—		(b)
Total regulatory liabilities	1,144	608		
Less: current portion	3	—		
Total noncurrent regulatory liabilities	\$ 1,141	\$ 608		

(a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.

(b) The expected recovery or refund period varies or has not been determined.

(c) Included in rate base.

(d) Recovery over the life of the associated assets.

(e) Balance will fluctuate with changes in the market. Current contracts extend into 2031.

(f) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 21 for additional detail.

South Carolina Rate Stabilization Adjustment Filing

In June 2017, Piedmont filed with the PSCSC under the South Carolina Rate Stabilization Act its quarterly monitoring report for the 12-month period ending March 31, 2017. The filing included a revenue deficiency calculation and tariff rates in order to permit Piedmont the opportunity to earn the rate of return on equity of 12.6 percent established in its last general rate case. On October 4, 2017, the PSCSC approved a settlement agreement between Piedmont and the SC Office of Regulatory Staff. Terms of the settlement included implementation of rates for the 12-month period beginning November 2017 with a return on equity of 10.2 percent.

North Carolina Integrity Management Rider Filings

In October 2017, Piedmont filed a petition with the NCUC under the Integrity Management Rider (IMR) mechanism to collect an additional \$8.9 million in annual revenues, effective December 2017, based on the eligible capital investments closed to integrity and safety projects over the six-month period ending September 30, 2017. On November 28, 2017, the NCUC approved the requested rate adjustment.

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Combined Notes to Consolidated Financial Statements – (Continued)

In May 2017, Piedmont filed, and the NCUC approved, a petition under the IMR mechanism to collect an additional \$11.6 million in annual revenues, effective June 2017, based on the eligible capital investments closed to integrity and safety projects over the six-month period ending March 31, 2017.

Tennessee Integrity Management Rider Filing

In November 2017, Piedmont filed a petition with the TPUC under the IMR mechanism to collect an additional \$3.3 million in annual revenues, effective January 2018, based on the eligible capital investments closed to integrity and safety projects over the 12-month period ending October 31, 2017. In January 2018, Piedmont filed an amended computation under the IMR mechanism, revising the proposed increase in annual revenues to approximately \$0.4 million based on the decrease in the corporate federal income tax rate effective January 1, 2018. A hearing on this matter is scheduled for March 2018.

OTHER REGULATORY MATTERS

Atlantic Coast Pipeline

On September 2, 2014, Duke Energy, Dominion Resources (Dominion), Piedmont and Southern Company Gas announced the formation of Atlantic Coast Pipeline, LLC (ACP) to build and own the proposed Atlantic Coast Pipeline (ACP pipeline), an approximately 600-mile interstate natural gas pipeline running from West Virginia to North Carolina. The ACP pipeline is designed to meet, in part, the needs identified by Duke Energy Carolinas, Duke Energy Progress and Piedmont. Dominion will build and operate the ACP pipeline and holds a leading ownership percentage in ACP of 48 percent. Duke Energy owns a 47 percent interest through its Gas Utilities and Infrastructure segment. Southern Company Gas maintains a 5 percent interest. See Notes 12 and 17 for additional information related to Duke Energy's ownership interest.

Duke Energy Carolinas, Duke Energy Progress and Piedmont, among others, will be customers of the pipeline. Purchases will be made under several 20-year supply contracts, subject to state regulatory approval. On September 18, 2015, ACP filed an application with the FERC requesting a CPCN authorizing ACP to construct the pipeline. ACP executed a construction agreement in September 2016. ACP also requested approval of an open access tariff and the precedent agreements it entered into with future pipeline customers. In December 2016, FERC issued a draft Environmental Impact Statement (EIS) indicating that the proposed pipeline would not cause significant harm to the environment or protected populations. The FERC issued the final EIS in July 2017. On October 13, 2017, FERC issued an order approving the CPCN, subject to conditions. On October 16, 2017, ACP accepted the FERC order subject to reserving its right to file a request for rehearing or clarification on a timely basis. On November 9, 2017, ACP filed a request for rehearing on several limited issues. On December 12, 2017, ACP filed an answer to intervenors' request for rehearing of the certificate order and for stay of the certificate order.

In December 2017, West Virginia issued a waiver of the state water quality permit in reliance on the U.S. Army Corps of Engineers national water quality permit and Virginia issued a conditional water quality permit subject to completion of additional studies and stormwater plans. In early 2018, the FERC issued a series of Partial Notices to Proceed which authorized the project to begin limited construction-related activities along the pipeline route. North Carolina issued the state water quality permit in January 2018. The project remains subject to other pending federal and state approvals, which will allow full construction activities to begin. The ACP pipeline project has a targeted in-service date of late 2019.

Due to delays in obtaining the required permits to commence construction and the conditions imposed upon the project by the permits, ACP's project manager estimates the project's pipeline development costs have increased from a range of \$5.0 billion to \$5.5 billion to a range of \$6.0 billion and \$6.5 billion, excluding financing costs. Project construction activities, schedule and final costs are still subject to uncertainty due to potential additional permitting delays, construction productivity and other conditions and risks which could result in potential higher project costs and a potential delay in the targeted in-service date.

Sabal Trail Transmission Pipeline

On May 4, 2015, Duke Energy acquired a 7.5 percent ownership interest in Sabal Trail Transmission, LLC (Sabal Trail) from Spectra Energy Partners, LP, a master limited partnership, formed by Enbridge Inc. (formerly Spectra Energy Corp.). Spectra Energy Partners, LP holds a 50 percent ownership interest in Sabal Trail and NextEra Energy has a 42.5 percent ownership interest. Sabal Trail is a joint venture to construct a 515-mile natural gas pipeline (Sabal Trail pipeline) to transport natural gas to Florida. Total estimated project costs are approximately \$3.2 billion. The Sabal Trail pipeline traverses Alabama, Georgia and Florida. The primary customers of the Sabal Trail pipeline, Duke Energy Florida and Florida Power & Light Company (FPL), have each contracted to buy pipeline capacity for 25-year initial terms. See Notes 12 and 17 for additional information.

On February 3, 2016, the FERC issued an order granting the request for a CPCN to construct and operate the pipeline. The Sabal Trail pipeline received other required regulatory approvals and the phase one mainline was placed in service in July 2017. On October 12, 2017, Sabal Trail filed a request with FERC to place in-service a lateral line to Duke Energy Florida's Citrus County Combined Cycle facility, which remains pending. This request is required to support commissioning and testing activities at the facility.

On September 21, 2016, intervenors filed an appeal of FERC's CPCN orders to the U.S. Court of Appeals for the District of Columbia Circuit (D.C. Circuit Court of Appeals). On August 22, 2017, the appeals court ruled against FERC in the case for failing to include enough information on the impact of greenhouse-gas emissions carried by the pipeline, vacated the CPCN order and remanded the case to FERC. In response to the August 2017 court decision, the FERC issued a draft Supplemental Environmental Impact Statement (SEIS) on September 27, 2017. On October 6, 2017, FERC and a group of industry intervenors, including Sabal Trail and Duke Energy Florida, filed separate petitions with the D.C. Circuit Court of Appeals requesting rehearing regarding the court's decision to vacate the CPCN order. On January 31, 2018, the D.C. Circuit Court of Appeals denied the requests for rehearing. On February 2, 2018, Sabal Trail filed a request with FERC for expedited issuance of its order on remand and reissuance of the CPCN. In the alternative, the pipeline requested that FERC issue a temporary emergency CPCN to allow for continued operations. On February 5, 2018, FERC issued the final SEIS but did not issue the order on remand. On February 6, 2018, FERC and the intervenors in this case each filed motions for stay with the D.C. Circuit Court to stay the court's mandate. The February 6, 2018 motions automatically stay the issuance of the court's mandate until the later of seven days after the court denies the motions or the expiration of any stay granted by the court. Both motions are pending. Sabal Trail will continue to monitor the progress and the impact to the project going forward.

Constitution Pipeline

Duke Energy owns a 24 percent ownership interest in Constitution Pipeline Company, LLC (Constitution). Constitution is a natural gas pipeline project slated to transport natural gas supplies from the Marcellus supply region in northern Pennsylvania to major northeastern markets. The pipeline will be constructed

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Combined Notes to Consolidated Financial Statements – (Continued)

and operated by Williams Partners L.P., which has a 41 percent ownership share. The remaining interest is held by Cabot Oil and Gas Corporation and WGL Holdings, Inc. Before the permitting delays discussed below, Duke Energy's total anticipated contributions were approximately \$229 million. As a result of the permitting delays and project uncertainty, total anticipated contributions by Duke Energy can no longer be reasonably estimated.

In December 2014, Constitution received approval from the FERC to construct and operate the proposed pipeline. However, on April 22, 2016, the New York State Department of Environmental Conservation (NYSDEC) denied Constitution's application for a necessary water quality certification for the New York portion of the Constitution pipeline. Constitution filed legal actions in the U.S. Court of Appeals for the Second Circuit (U.S. Court of Appeals) challenging the legality and appropriateness of the NYSDEC's decision and on August 18, 2017, the petition was denied in part and dismissed in part. In September 2017, Constitution filed a petition for a rehearing of portions of the decision unrelated to the water quality certification, which was denied by the U.S. Court of Appeals. In January 2018, Constitution petitioned the Supreme Court of the United States to review the U.S. Court of Appeals decision. In October 2017, Constitution filed a petition for declaratory order requesting FERC to find that the NYSDEC waived its rights to issue a Section 401 water quality certification by not acting on Constitution's application within a reasonable period of time as required by statute. This petition was based on precedent established by another pipeline's successful petition with FERC following a District of Columbia Circuit Court ruling. On January 11, 2018, FERC denied Constitution's petition. In February 2018, Constitution filed a rehearing request with FERC of its finding that the NYSDEC did not waive the Section 401 certification requirement. Constitution is currently unable to approximate an in-service date for the project due to the NYSDEC's denial of the water quality certification. The Constitution partners remain committed to the project and are evaluating next steps to move the project forward. Duke Energy cannot predict the outcome of this matter.

Since April 2016, with the actions of the NYSDEC, Constitution stopped construction and discontinued capitalization of future development costs until the project's uncertainty is resolved.

See Notes 12 and 17 for additional information related to ownership interest and carrying value of the investment.

The table below contains the net carrying value of generating facilities planned for retirement or included in recent IRPs as evaluated for potential retirement due to a lack of requisite environmental control equipment. Dollar amounts in the table below are included in Net property, plant and equipment on the Consolidated Balance Sheets as of December 31, 2017, and exclude capitalized asset retirement costs.

	Capacity (in MW)	Remaining Net Book Value (in millions)
Duke Energy Carolinas		
Allen Steam Station Units 1-3 ^(a)	585	\$ 163
Progress Energy and Duke Energy Florida		
Crystal River Units 1 and 2 ^(b)	873	107
Duke Energy Indiana		
Gallagher Units 2 and 4 ^(c)	280	127
Total Duke Energy	1,738	\$ 397

(a) Duke Energy Carolinas will retire Allen Steam Station Units 1 through 3 by December 31, 2024, as part of the resolution of a lawsuit involving alleged New Source Review violations.

(b) Duke Energy Florida expects to retire these coal units by the end of 2018 to comply with environmental regulations.

(c) Duke Energy Indiana committed to either retire or stop burning coal at Gallagher Units 2 and 4 by December 31, 2022, as part of the settlement of Edwardsport IGCC matters.

Refer to the "Western Carolinas Modernization Plan" discussion above for details of Duke Energy Progress' planned retirements.

Progress Energy Merger FERC Mitigation

Following the closing of the Progress Energy merger, outside counsel reviewed Duke Energy's long-term FERC mitigation plan and discovered a technical error in the calculations. On December 6, 2013, Duke Energy submitted a filing to the FERC disclosing the error and arguing that no additional mitigation is necessary. The city of New Bern filed a protest and requested that FERC order additional mitigation. On October 29, 2014, the FERC ordered that the amount of the stub mitigation be increased from 25 MW to 129 MW. The stub mitigation is Duke Energy's commitment to set aside for third parties a certain quantity of firm transmission capacity from Duke Energy Carolinas to Duke Energy Progress during summer off-peak hours. The FERC also ordered that Duke Energy operate certain phase shifters to create additional import capability and that such operation be monitored by an independent monitor. The costs to comply with this order are not material. The FERC also referred Duke Energy's failure to expressly designate the phase shifter reactivation as a mitigation project in the original mitigation plan filing in March 2012 to the FERC Office of Enforcement for further inquiry. In response, and since December 2014, the FERC Office of Enforcement has been conducting a nonpublic investigation of Duke Energy's market power analyses included in the Progress merger filings submitted to FERC. Duke Energy cannot predict the outcome of this investigation.

Potential Coal Plant Retirements

The Subsidiary Registrants periodically file Integrated Resource Plans (IRP) with their state regulatory commissions. The IRPs provide a view of forecasted energy needs over a long term (10 to 20 years) and options being considered to meet those needs. Recent IRPs filed by the Subsidiary Registrants included planning assumptions to potentially retire certain coal-fired generating facilities in Florida and Indiana earlier than their current estimated useful lives primarily because facilities do not have the requisite emission control equipment to meet EPA regulations recently approved or proposed.

Combined Notes to Consolidated Financial Statements – (Continued)

5. COMMITMENTS AND CONTINGENCIES

INSURANCE

General Insurance

The Duke Energy Registrants have insurance and reinsurance coverage either directly or through indemnification from Duke Energy's captive insurance company, Bison, and its affiliates, consistent with companies engaged in similar commercial operations with similar type properties. The Duke Energy Registrants' coverage includes (i) commercial general liability coverage for liabilities arising to third parties for bodily injury and property damage; (ii) workers' compensation; (iii) automobile liability coverage; and (iv) property coverage for all real and personal property damage. Real and personal property damage coverage excludes electric transmission and distribution lines, but includes damages arising from boiler and machinery breakdowns, earthquakes, flood damage and extra expense, but not outage or replacement power coverage. All coverage is subject to certain deductibles or retentions, sublimits, exclusions, terms and conditions common for companies with similar types of operations. The Duke Energy Registrants self-insure their electric transmission and distribution lines against loss due to storm damage and other natural disasters. As discussed further in Note 4, Duke Energy Florida maintains a storm damage reserve and has a regulatory mechanism to recover the cost of named storms on an expedited basis.

The cost of the Duke Energy Registrants' coverage can fluctuate from year to year reflecting claims history and conditions of the insurance and reinsurance markets.

In the event of a loss, terms and amounts of insurance and reinsurance available might not be adequate to cover claims and other expenses incurred. Uninsured losses and other expenses, to the extent not recovered by other sources, could have a material effect on the Duke Energy Registrants' results of operations, cash flows or financial position. Each company is responsible to the extent losses may be excluded or exceed limits of the coverage available.

Nuclear Insurance

Duke Energy Carolinas owns and operates the McGuire Nuclear Station (McGuire) and the Oconee Nuclear Station (Oconee) and operates and has a partial ownership interest in the Catawba Nuclear Station (Catawba). McGuire and Catawba each have two reactors. Oconee has three reactors. The other joint owners of Catawba reimburse Duke Energy Carolinas for certain expenses associated with nuclear insurance per the Catawba joint owner agreements.

Duke Energy Progress owns and operates the Robinson Nuclear Plant (Robinson), Brunswick and Harris. Robinson and Harris each have one reactor. Brunswick has two reactors.

Duke Energy Florida owns Crystal River Unit 3, which permanently ceased operation in 2013 and reached a SAFSTOR condition in January 2018 after the successful transfer of all used nuclear fuel assemblies to an onsite dry cask storage facility.

In the event of a loss, terms and amounts of insurance available might not be adequate to cover property damage and other expenses incurred. Uninsured losses and other expenses, to the extent not recovered by other sources, could have a material effect on Duke Energy Carolinas', Duke Energy Progress' and Duke Energy Florida's results of operations, cash flows or financial position. Each company is responsible to the extent losses may be excluded or exceed limits of the coverage available.

Nuclear Liability Coverage

The Price-Anderson Act requires owners of nuclear reactors to provide for public nuclear liability protection per nuclear incident up to a maximum total financial protection liability. The maximum total financial protection liability, which is approximately \$13.4 billion, is subject to change every five years for inflation and for the number of licensed reactors. Total nuclear liability coverage consists of a combination of private primary nuclear liability insurance coverage and a mandatory industry risk-sharing program to provide for excess nuclear liability coverage above the maximum reasonably available private primary coverage. The U.S. Congress could impose revenue-raising measures on the nuclear industry to pay claims.

Primary Liability Insurance

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida have purchased the maximum reasonably available private primary nuclear liability insurance as required by law, which is \$450 million per station.

Excess Liability Program

This program provides \$13 billion of coverage per incident through the Price-Anderson Act's mandatory industrywide excess secondary financial protection program of risk pooling. This amount is the product of potential cumulative retrospective premium assessments of \$127 million times the current 102 licensed commercial nuclear reactors in the U.S. Under this program, licensees could be assessed retrospective premiums to compensate for public nuclear liability damages in the event of a nuclear incident at any licensed facility in the U.S. Retrospective premiums may be assessed at a rate not to exceed \$19 million per year per licensed reactor for each incident. The assessment may be subject to state premium taxes.

Nuclear Property and Accidental Outage Coverage

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are members of Nuclear Electric Insurance Limited (NEIL), an industry mutual insurance company, which provides property damage, nuclear accident decontamination and premature decommissioning insurance for each station for losses resulting from damage to its nuclear plants, either due to accidents or acts of terrorism. Additionally, NEIL provides accidental outage coverage for each station for losses in the event of a major accidental outage at an insured nuclear station.

Pursuant to regulations of the NRC, each company's property damage insurance policies provide that all proceeds from such insurance be applied, first, to place the plant in a safe and stable condition after a qualifying accident and second, to decontaminate the plant before any proceeds can be used for decommissioning, plant repair or restoration.

Losses resulting from acts of terrorism are covered as common occurrences, such that if terrorist acts occur against one or more commercial nuclear power plants insured by NEIL within a 12-month period, they would be treated as one event and the owners of the plants where the act occurred would share one full limit of liability. The full limit of liability is currently \$3.2 billion. NEIL sublimits the total aggregate for all of their policies for non-nuclear terrorist events to approximately \$1.83 billion.

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

Each nuclear facility has accident property damage, decontamination and premature decommissioning liability insurance from NEIL with limits of \$1.5 billion, except for Crystal River Unit 3. Crystal River Unit 3's limit is \$50 million and is on an actual cash value basis. All nuclear facilities except for Catawba and Crystal River Unit 3 also share an additional \$1.25 billion nuclear accident insurance limit above their dedicated underlying limit. This shared additional excess limit is not subject to reinstatement in the event of a loss. Catawba has a dedicated \$1.25 billion of additional nuclear accident insurance limit above its dedicated underlying limit. Catawba and Oconee also have an additional \$750 million of non-nuclear accident property damage limit. All coverages are subject to sublimits and significant deductibles.

NEIL's Accidental Outage policy provides some coverage, such as business interruption, for losses in the event of a major accident property damage outage of a nuclear unit. Coverage is provided on a weekly limit basis after a significant waiting period deductible and at 100 percent of the available weekly limits for 52 weeks and 80 percent of the available weekly limits for the next 110 weeks. Coverage is provided until these available weekly periods are met where the accidental outage policy limit will not exceed \$490 million for McGuire and Catawba, \$462 million for Brunswick, \$448 million for Harris, \$434 million for Oconee and \$378 million for Robinson. NEIL sublimits the accidental outage recovery to the first 104 weeks of coverage not to exceed \$328 million from non-nuclear accidental property damage. Coverage amounts decrease in the event more than one unit at a station is out of service due to a common accident. All coverages are subject to sublimits and significant deductibles.

Potential Retroactive Premium Assessments

In the event of NEIL losses, NEIL's board of directors may assess member companies' retroactive premiums of amounts up to 10 times their annual premiums for up to six years after a loss. NEIL has never exercised this assessment. The maximum aggregate annual retrospective premium obligations for Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are \$146 million, \$96 million and \$1 million, respectively. Duke Energy Carolinas' maximum assessment amount includes 100 percent of

potential obligations to NEIL for jointly owned reactors. Duke Energy Carolinas would seek reimbursement from the joint owners for their portion of these assessment amounts.

ENVIRONMENTAL

The Duke Energy Registrants are subject to federal, state and local regulations regarding air and water quality, hazardous and solid waste disposal and other environmental matters. These regulations can be changed from time to time, imposing new obligations on the Duke Energy Registrants. The following environmental matters impact all of the Duke Energy Registrants.

Remediation Activities

In addition to the ARO recorded as a result of various environmental regulations, discussed in Note 9, the Duke Energy Registrants are responsible for environmental remediation at various sites. These include certain properties that are part of ongoing operations and sites formerly owned or used by Duke Energy entities. These sites are in various stages of investigation, remediation and monitoring. Managed in conjunction with relevant federal, state and local agencies, remediation activities vary based upon site conditions and location, remediation requirements, complexity and sharing of responsibility. If remediation activities involve joint and several liability provisions, strict liability, or cost recovery or contribution actions, the Duke Energy Registrants could potentially be held responsible for environmental impacts caused by other potentially responsible parties and may also benefit from insurance policies or contractual indemnities that cover some or all cleanup costs. Liabilities are recorded when losses become probable and are reasonably estimable. The total costs that may be incurred cannot be estimated because the extent of environmental impact, allocation among potentially responsible parties, remediation alternatives and/or regulatory decisions have not yet been determined at all sites. Additional costs associated with remediation activities are likely to be incurred in the future and could be significant. Costs are typically expensed as Operation, maintenance and other in the Consolidated Statements of Operations unless regulatory recovery of the costs is deemed probable.

The following tables contain information regarding reserves for probable and estimable costs related to the various environmental sites. These reserves are recorded in Accounts payable within Current Liabilities and Other within Other Noncurrent Liabilities on the Consolidated Balance Sheets.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Balance at December 31, 2014	\$ 92	\$ 10	\$ 17	\$ 5	\$ 12	\$ 54	\$ 10
Provisions/adjustments	11	1	4	—	4	1	5
Cash reductions	(9)	(1)	(4)	(2)	(2)	(1)	(3)
Balance at December 31, 2015	94	10	17	3	14	54	12
Provisions/adjustments	19	4	7	2	4	7	1
Cash reductions	(15)	(4)	(6)	(2)	(4)	(2)	(3)
Balance at December 31, 2016	98	10	18	3	14	59	10
Provisions/adjustments	8	3	3	2	2	3	(4)
Cash reductions	(25)	(3)	(6)	(2)	(4)	(15)	(1)
Balance at December 31, 2017	\$ 81	\$ 10	\$ 15	\$ 3	\$ 12	\$ 47	\$ 5

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

As of December 31, 2016, October 31, 2016, 2015 and 2014, Piedmont's environmental reserve was \$1 million. In 2017, a \$1 million provision was recorded, resulting in a reserve balance of \$2 million at December 31, 2017.

Additional losses in excess of recorded reserves that could be incurred for the stages of investigation, remediation and monitoring for environmental sites that have been evaluated at this time are not material except as presented in the table below.

(in millions)

Duke Energy	\$ 56
Duke Energy Carolinas	19
Duke Energy Ohio	30
Piedmont	2

North Carolina and South Carolina Ash Basins

In February 2014, a break in a stormwater pipe beneath an ash basin at Duke Energy Carolinas' retired Dan River Steam Station caused a release of ash basin water and ash into the Dan River. Duke Energy Carolinas estimates 30,000 to 39,000 tons of ash and 24 million to 27 million gallons of basin water were released into the river. In July 2014, Duke Energy completed remediation work identified by the EPA and continues to cooperate with the EPA's civil enforcement process. Future costs related to the Dan River release, including future state or federal civil enforcement proceedings, future regulatory directives, natural resources damages, future claims or litigation and long-term environmental impact costs, cannot be reasonably estimated at this time.

The North Carolina Department of Environmental Quality (NCDEQ) has historically assessed Duke Energy Carolinas and Duke Energy Progress with Notice of Violations (NOV) for violations that were most often resolved through satisfactory corrective actions and minor, if any, fines or penalties. Subsequent to the Dan River ash release, Duke Energy Carolinas and Duke Energy Progress have been served with a higher level of NOV's, including assessed penalties for violations at L.V. Sutton Combined Cycle Plant (Sutton) and Dan River Steam Station. Duke Energy Carolinas and Duke Energy Progress cannot predict whether the NCDEQ will assess future penalties related to existing unresolved NOV's and if such penalties would be material. See "NCDEQ Notices of Violation" section below for additional discussion.

LITIGATION

Duke Energy

Duke Energy no longer has exposure to litigation matters related to the International Disposal Group as a result of the divestiture of the business in December 2016. See Note 2 for additional information related to the sale of International Energy.

Ash Basin Shareholder Derivative Litigation

Five shareholder derivative lawsuits were filed in Delaware Chancery Court relating to the release at Dan River and to the management of Duke Energy's ash basins. On October 31, 2014, the five lawsuits were consolidated in a single proceeding titled *In Re Duke Energy Corporation Coal Ash Derivative Litigation*. On December 2, 2014, plaintiffs filed a Corrected Verified Consolidated Shareholder Derivative Complaint (Consolidated Complaint). The Consolidated Complaint names as defendants several current and former Duke Energy officers and directors (collectively, the "Duke Energy Defendants"). Duke Energy is named as a nominal defendant.

The Consolidated Complaint alleges the Duke Energy Defendants breached their fiduciary duties by failing to adequately oversee Duke Energy's ash basins and that these breaches of fiduciary duty may have contributed to the incident at Dan River and continued thereafter. The lawsuit also asserts claims against the Duke Energy Defendants for corporate waste (relating to the money Duke Energy has spent and will spend as a result of the fines, penalties and coal ash removal) and unjust enrichment (relating to the compensation and director remuneration that was received despite these alleged breaches of fiduciary duty). The lawsuit seeks both injunctive relief against Duke Energy and restitution from the Duke Energy Defendants. On January 21, 2015, the Duke Energy Defendants filed a Motion to Stay, which the court granted. The stay was lifted on March 24, 2016, after which plaintiffs filed an Amended Verified Consolidated Shareholder Derivative Complaint (Amended Complaint) making the same allegations as in the Consolidated Complaint. The Duke Energy Defendants filed a motion to dismiss the Amended Complaint on June 21, 2016, which was granted by the Court on December 14, 2016. Plaintiffs filed an appeal to the Delaware Supreme Court on January 9, 2017. Oral argument was held on September 27, 2017. On December 15, 2017, the Delaware Supreme Court affirmed the Chancery Court's order of dismissal.

In addition to the above derivative complaints, in 2014, Duke Energy received two shareholder litigation demand letters. The letters alleged that the members of the Board of Directors and certain officers breached their fiduciary duties by allowing the company to illegally dispose of and store coal ash pollutants. One of the letters also alleged a breach of fiduciary duty in the decision-making relating to the leadership changes following the close of the Progress Energy merger in July 2012. By letter dated September 4, 2015, attorneys for the shareholders were informed that, on the recommendation of the Demand Review Committee formed to consider such matters, the Board of Directors concluded not to pursue potential claims against individuals. One of the shareholders, Mitchell Pinsly, sent a formal demand for records and Duke Energy has responded to this request. There was no follow-up after the records were provided; therefore, this matter has been resolved.

On October 30, 2015, shareholder Saul Bresalier filed a shareholder derivative complaint (Bresalier Complaint) in the U.S. District Court for the District of Delaware. The lawsuit alleges that several current and former Duke Energy officers and directors (Bresalier Defendants) breached their fiduciary duties in connection with coal ash environmental issues, the post-merger change in Chief Executive Officer (CEO) and oversight of political contributions. Duke Energy is named as a nominal defendant. The Bresalier Complaint contends that the Demand Review Committee failed to appropriately consider the shareholder's earlier demand for litigation and improperly decided not to pursue claims against the Bresalier Defendants. On March 30, 2017, the court granted Defendants' Motion to Dismiss on the claims relating to coal ash environmental issues and political contributions. As discussed below, a settlement agreement was approved for the merger-related claims in the Bresalier Complaint, and those claims were dismissed. On September 8, 2017, Bresalier filed a notice of appeal to the U.S. Court of Appeals for the Third Circuit (Third Circuit Court) challenging the dismissal of his coal ash and political contribution claims. On January 19 2018, Bresalier filed a stipulation of dismissal, closing this case.

Progress Energy Merger Shareholder Litigation

Duke Energy, the 11 members of the Board of Directors who were also members of the pre-merger Board of Directors (Legacy Duke Energy Directors) and certain Duke Energy officers were defendants in a purported securities class-action lawsuit (*Nieman v. Duke Energy Corporation, et al*). This lawsuit consolidated three lawsuits originally filed in July 2012. The plaintiffs alleged

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Combined Notes to Consolidated Financial Statements – (Continued)

federal Securities Act of 1933 and Securities Exchange Act of 1934 (Exchange Act) claims based on allegations of materially false and misleading representations and omissions in the Registration Statement filed on July 7, 2011, and purportedly incorporated into other documents, all in connection with the post-merger change in CEO. On August 15, 2014, the parties reached an agreement in principle to settle the litigation. On March 10, 2015, the parties filed a Stipulation of Settlement and a Motion for Preliminary Approval of the Settlement. Under the terms of the agreement, Duke Energy agreed to pay \$146 million to settle the claim. On April 22, 2015, Duke Energy made a payment of \$25 million into the settlement escrow account. The remainder of \$121 million was paid by insurers into the settlement escrow account. The final order approving the settlement was issued on November 2, 2015, thus closing the matter.

On May 31, 2013, the Delaware Chancery Court consolidated four shareholder derivative lawsuits filed in 2012. The Court also appointed a lead plaintiff and counsel for plaintiffs and designated the case as *In Re Duke Energy Corporation Derivative Litigation* (Merger Chancery Litigation). The lawsuit names as defendants the Legacy Duke Energy Directors. Duke Energy is named as a nominal defendant. The case alleges claims for breach of fiduciary duties of loyalty and care in connection with the post-merger change in CEO.

Two shareholder Derivative Complaints, filed in 2012 in federal district court in Delaware, were consolidated as *Tansey v. Rogers, et al.* The case alleges claims against the Legacy Duke Energy Directors for breach of fiduciary duty and waste of corporate assets, as well as claims under Section 14(a) and 20(a) of the Exchange Act. Duke Energy is named as a nominal defendant. On December 21, 2015, Plaintiff filed a Consolidated Amended Complaint asserting the same claims contained in the original complaints.

The Legacy Duke Energy Directors have reached an agreement-in-principle to settle the Merger Chancery Litigation, conditioned on dismissal as well, of the *Tansey v. Rogers, et al* case and the merger related claims in the Bresalier Complaint discussed above, which was approved by the Delaware Chancery Court on July 13, 2017. The entire settlement amount was funded by insurance. The settlement amount, less court-approved attorney fees, totaled \$20 million and was paid to Duke Energy in 2017.

Duke Energy Carolinas and Duke Energy Progress

Coal Ash Insurance Coverage Litigation

In March 2017, Duke Energy Carolinas and Duke Energy Progress filed a civil action in North Carolina Superior Court against various insurance providers. The lawsuit seeks payment for coal ash-related liabilities covered by third-party liability insurance policies. The insurance policies were issued between 1971 and 1986 and provide third-party liability insurance for property damage. The civil action seeks damages for breach of contract and indemnification for costs arising from the Coal Ash Act and the EPA CCR rule at 15 coal-fired plants in North Carolina and South Carolina. Duke Energy Carolinas and Duke Energy Progress cannot predict the outcome of this matter.

NCDEQ Notice of Violation

On February 8, 2016, the NCDEQ assessed a penalty of approximately \$6.8 million, including enforcement costs, against Duke Energy Carolinas related to stormwater pipes and associated discharges at the Dan River Steam Station. Duke Energy Carolinas recorded a charge in December 2015 for this penalty. In March 2016, Duke Energy Carolinas filed an appeal of this penalty. On September 23, 2016, Duke Energy Carolinas entered into a settlement agreement with the NCDEQ, without admission of liability, under which Duke Energy Carolinas agreed to a payment of \$6 million to resolve allegations underlying the asserted civil penalty related to the Dan River coal ash release and a March 4, 2016, NOV alleging unpermitted discharges at the facility.

NCDEQ State Enforcement Actions

In the first quarter of 2013, Southern Environmental Law Center (SELC) sent notices of intent to sue Duke Energy Carolinas and Duke Energy Progress related to alleged Clean Water Act (CWA) violations from coal ash basins at two of their coal-fired power plants in North Carolina. The NCDEQ filed enforcement actions against Duke Energy Carolinas and Duke Energy Progress alleging violations of water discharge permits and North Carolina groundwater standards. The cases have been consolidated and are being heard before a single judge in the North Carolina Superior Court.

On August 16, 2013, the NCDEQ filed an enforcement action against Duke Energy Carolinas and Duke Energy Progress related to their remaining plants in North Carolina alleging violations of the CWA and violations of the North Carolina groundwater standards. Both of these cases have been assigned to the judge handling the enforcement actions discussed above. SELC is representing several environmental groups who have been permitted to intervene in these cases.

The court issued orders in 2016 granting Motions for Partial Summary Judgment for seven of the 14 North Carolina plants with coal ash basins named in the enforcement actions. On February 13, 2017, the court issued an order denying motions for partial summary judgment brought by both the environmental groups and Duke Energy Carolinas and Duke Energy Progress for the remaining seven plants. On March 15, 2017, Duke Energy Carolinas and Duke Energy Progress filed a Notice of Appeal to challenge the trial court's order. The parties were unable to reach an agreement at mediation in April 2017. The parties submitted briefs to the court on remaining issues to be tried and a ruling is pending. On August 22, 2017, Duke Energy Carolinas and Duke Energy Progress filed a Petition for Discretionary Review, requesting the North Carolina Supreme Court to accept the appeal. On August 24, 2017, SELC filed a motion to dismiss the appeal. Duke Energy Carolinas' and Duke Energy Progress' opening appellate briefs were filed on October 12, 2017, and briefing is now complete. Argument was held on February 8, 2018.

It is not possible to predict any liability or estimate any damages Duke Energy Carolinas or Duke Energy Progress might incur in connection with these matters.

Federal Citizens Suits

On June 13, 2016, the Roanoke River Basin Association (RRBA) filed a federal citizen suit in the Middle District of North Carolina alleging unpermitted discharges to surface water and groundwater violations at the Mayo Plant. On August 19, 2016, Duke Energy Progress filed a Motion to Dismiss. On April 26, 2017, the court entered an order dismissing four of the claims in the federal citizen suit. Two claims relating to alleged violations of National Pollutant Discharge Elimination System (NPDES) permit provisions survived the motion to dismiss, and Duke Energy Progress filed its response on May 10, 2017. The parties are engaged in pre-trial discovery. Trial has been scheduled for July 9, 2018.

On March 16, 2017, RRBA served Duke Energy Progress with a Notice of Intent to Sue under the CWA for alleged violations of effluent standards and limitations at the Roxboro Plant. In anticipation of litigation, Duke Energy Progress filed a Complaint for Declaratory Relief in the U.S. District Court for the Western District of Virginia on May 11, 2017, which was subsequently dismissed. On May 16, 2017, RRBA filed a federal citizen suit in the U.S. District Court for the Middle District of North Carolina which asserts two claims relating to alleged violations of NPDES permit provisions and one claim relating to the use of nearby water bodies. The parties are engaged in pre-trial discovery. Trial has been scheduled for October 1, 2018.

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Combined Notes to Consolidated Financial Statements – (Continued)

On June 20, 2017, RRBA filed a federal citizen suit in the U.S. District Court for the Middle District of North Carolina challenging the closure plans at the Mayo Plant under the EPA CCR Rule. Duke Energy Progress filed a motion to dismiss, which was argued on January 30, 2018.

On August 2, 2017, RRBA filed a federal citizen suit in the U.S. District Court for the Middle District of North Carolina challenging the closure plans at the Roxboro Plant under the EPA CCR Rule. Duke Energy Progress filed a motion to dismiss on October 2, 2017.

On December 6, 2017, various parties filed a federal citizen suit in the U.S. District Court for the Middle District of North Carolina for alleged violations at Duke Energy Carolinas' Belews Creek Steam Station (Belews Creek) under the CWA. Duke Energy Carolinas filed a motion to dismiss on February 5, 2018.

It is not possible to predict whether Duke Energy Carolinas or Duke Energy Progress will incur any liability or to estimate the damages, if any, they might incur in connection with these matters.

Five previously filed cases involving the Riverbend, Cape Fear, H.F. Lee, Sutton and Buck plants have been dismissed or settled during 2016.

Groundwater Contamination Claims

Beginning in May 2015, a number of residents living in the vicinity of the North Carolina facilities with ash basins received letters from the NCDEQ advising them not to drink water from the private wells on their land tested by the NCDEQ as the samples were found to have certain substances at levels higher than the criteria set by the North Carolina Department of Health and Human Services (DHHS). Results of Comprehensive Site Assessments (CSAs) testing performed by Duke Energy under the Coal Ash Act have been consistent with historical data provided to state regulators over many years. The DHHS and NCDEQ sent follow-up letters on October 15, 2015, to residents near coal ash basins who have had their wells tested, stating that private well samplings at a considerable distance from coal ash basins, as well as some municipal water supplies, contain similar levels of vanadium and hexavalent chromium, which led investigators to believe these constituents are naturally occurring. In March 2016, DHHS rescinded the advisories.

Duke Energy Carolinas and Duke Energy Progress have received formal demand letters from residents near Duke Energy Carolinas' and Duke Energy Progress' coal ash basins. The residents claim damages for nuisance and diminution in property value, among other things. The parties held three days of mediation discussions which ended at impasse. On January 6, 2017, Duke Energy Carolinas and Duke Energy Progress received the plaintiffs' notice of their intent to file suits should the matter not settle. The NCDEQ preliminarily approved Duke Energy's permanent water solution plans on January 13, 2017, and as a result shortly thereafter, Duke Energy issued a press release, providing additional details regarding the homeowner compensation package. This package consists of three components: (i) a \$5,000 goodwill payment to each eligible well owner to support the transition to a new water supply, (ii) where a public water supply is available and selected by the eligible well owner, a stipend to cover 25 years of water bills and (iii) the Property Value Protection Plan. The Property Value Protection Plan is a program offered by Duke Energy designed to guarantee eligible plant neighbors the fair market value of their residential property should they decide to sell their property during the time that the plan is offered. Duke Energy Carolinas and Duke Energy Progress recognized reserves of \$19 million and \$4 million, respectively.

On August 23, 2017, a class-action suit was filed in Wake County Superior Court, North Carolina, against Duke Energy Carolinas and Duke Energy Progress on behalf of certain property owners living near coal ash impoundments at Allen, Asheville, Belews Creek, Buck, Cliffside, Lee, Marshall, Mayo and Roxboro. The class is defined as those who are well-eligible under the Coal Ash Act or

those to whom Duke Energy has promised a permanent replacement water supply and seeks declaratory and injunctive relief, along with compensatory damages. Plaintiffs allege that Duke Energy's improper maintenance of coal ash impoundments caused harm, particularly through groundwater contamination. Despite NCDEQ's preliminary approval, Plaintiffs contend that Duke Energy's proposed permanent water solutions plan fails to comply with the Coal Ash Act. On September 28, 2017, Duke Energy Carolinas and Duke Energy Progress filed a Motion to Dismiss and Motion to Strike the class designation. The parties entered into a Settlement Agreement on January 24, 2018, which resulted in the dismissal of the underlying class action on January 25, 2018.

On September 14, 2017, a complaint was filed against Duke Energy Progress in New Hanover County Superior Court by a group of homeowners residing approximately 1 mile from Duke Energy Progress' Sutton Steam Plant. The homeowners allege that coal ash constituents have been migrating from ash impoundments at Sutton into their groundwater for decades and that in 2015, Duke Energy Progress discovered these releases of coal ash, but failed to notify any officials or neighbors and failed to take remedial action. The homeowners claim unspecified physical and mental injuries as a result of consuming their well water and seek actual damages for personal injury, medical monitoring and punitive damages. Duke Energy filed its Motion to Dismiss on October 27, 2017, and the hearing is scheduled for March 7, 2018.

It is not possible to estimate the maximum exposure of loss, if any, that may occur in connection with claims which might be made by these residents.

Duke Energy Carolinas

Asbestos-related Injuries and Damages Claims

Duke Energy Carolinas has experienced numerous claims for indemnification and medical cost reimbursement related to asbestos exposure. These claims relate to damages for bodily injuries alleged to have arisen from exposure to or use of asbestos in connection with construction and maintenance activities conducted on its electric generation plants prior to 1985. As of December 31, 2017, there were 161 asserted claims for non-malignant cases with the cumulative relief sought of up to \$42 million and 54 asserted claims for malignant cases with the cumulative relief sought of up to \$16 million. Based on Duke Energy Carolinas' experience, it is expected that the ultimate resolution of most of these claims likely will be less than the amount claimed.

Duke Energy Carolinas has recognized asbestos-related reserves of \$489 million and \$512 million at December 31, 2017, and 2016, respectively. These reserves are classified in Other within Other Noncurrent Liabilities and Other within Current Liabilities on the Consolidated Balance Sheets. These reserves are based upon the minimum amount of the range of loss for current and future asbestos claims through 2037, are recorded on an undiscounted basis and incorporate anticipated inflation. In light of the uncertainties inherent in a longer-term forecast, management does not believe they can reasonably estimate the indemnity and medical costs that might be incurred after 2037 related to such potential claims. It is possible Duke Energy Carolinas may incur asbestos liabilities in excess of the recorded reserves.

Duke Energy Carolinas has third-party insurance to cover certain losses related to asbestos-related injuries and damages above an aggregate self-insured retention. Duke Energy Carolinas' cumulative payments began to exceed the self-insurance retention in 2008. Future payments up to the policy limit will be reimbursed by the third-party insurance carrier. The insurance policy limit for potential future insurance recoveries indemnification and medical cost claim payments is \$797 million in excess of the self-insured retention. Receivables for insurance recoveries were \$585 million and \$587 million at December 31, 2017, and 2016, respectively. These amounts are classified in Other within Other

Combined Notes to Consolidated Financial Statements – (Continued)

Noncurrent Assets and Receivables within Current Assets on the Consolidated Balance Sheets. Duke Energy Carolinas is not aware of any uncertainties regarding the legal sufficiency of insurance claims. Duke Energy Carolinas believes the insurance recovery asset is probable of recovery as the insurance carrier continues to have a strong financial strength rating.

Duke Energy Progress and Duke Energy Florida

Spent Nuclear Fuel Matters

On October 16, 2014, Duke Energy Progress and Duke Energy Florida sued the U.S. in the U.S. Court of Federal Claims. The lawsuit claimed the Department of Energy breached a contract in failing to accept spent nuclear fuel under the Nuclear Waste Policy Act of 1982 and asserted damages for the cost of on-site storage. Duke Energy Progress and Duke Energy Florida asserted damages for the period January 1, 2011, through December 31, 2013, of \$48 million and \$25 million, respectively. On November 17, 2017, the Court awarded Duke Energy Progress and Duke Energy Florida \$48 million and \$21 million, respectively, subject to appeal. No appeals were filed and Duke Energy Progress and Duke Energy Florida will recognize the recoveries in the first quarter of 2018. Claims for all periods through 2013 have been resolved. Additional claims will be filed in 2018.

Duke Energy Progress

Gypsum Supply Agreements Matter

On June 30, 2017, CertainTeed Gypsum NC, Inc. (CertainTeed) filed a declaratory judgment action against Duke Energy Progress in the North Carolina Business Court relating to a gypsum supply agreement. In its complaint, CertainTeed seeks an order from the court declaring that the minimum amount of gypsum Duke Energy Progress must provide to CertainTeed under the supply agreement is 50,000 tons per month through 2029. On September 28, 2017, the Court denied CertainTeed's motion for summary judgment. Discovery in the case is underway and a trial date has not been set. In light of the volatility in future production of gypsum, Duke Energy Progress cannot predict the outcome of this matter.

Duke Energy Florida

Class-Action Lawsuit

On February 22, 2016, a lawsuit was filed in the U.S. District Court for the Southern District of Florida on behalf of a putative class of Duke Energy Florida and FP&L's customers in Florida. The suit alleges the State of Florida's nuclear power plant cost recovery statutes (NCRS) are unconstitutional and pre-empted by federal law. Plaintiffs claim they are entitled to repayment of all money paid by customers of Duke Energy Florida and FP&L as a result of the NCRS, as well as an injunction against any future charges under those statutes. The constitutionality of the NCRS has been challenged unsuccessfully in a number of prior cases on alternative grounds. Duke Energy Florida and FP&L filed motions to dismiss the complaint on May 5, 2016. On September 21, 2016, the Court granted the motions to dismiss with prejudice. Plaintiffs filed a motion for reconsideration, which was denied. On January 4, 2017, plaintiffs filed a notice of appeal to the U.S. Court of Appeals. The appeal, which has been fully briefed, was heard on August 22, 2017, and a decision is pending. Duke Energy Florida cannot predict the outcome of this appeal.

Westinghouse Contract Litigation

On March 28, 2014, Duke Energy Florida filed a lawsuit against Westinghouse in the U.S. District Court for the Western District of North Carolina. The lawsuit seeks recovery of \$54 million in milestone payments in excess of work performed under the terminated EPC for Levy as well as a determination by the court of the amounts due to Westinghouse as a result of the termination of the EPC. Duke Energy Florida recognized an exit obligation as a result of the termination of the EPC contract.

On March 31, 2014, Westinghouse filed a lawsuit against Duke Energy Florida in U.S. District Court for the Western District of Pennsylvania. The Pennsylvania lawsuit alleged damages under the EPC in excess of \$510 million for engineering and design work, costs to end supplier contracts and an alleged termination fee.

On June 9, 2014, the judge in the North Carolina case ruled that the litigation will proceed in the Western District of North Carolina. On July 11, 2016, Duke Energy Florida and Westinghouse filed separate Motions for Summary Judgment. On September 29, 2016, the court issued its ruling on the parties' respective Motions for Summary Judgment, ruling in favor of Westinghouse on a \$30 million termination fee claim and dismissing Duke Energy Florida's \$54 million refund claim, but stating that Duke Energy Florida could use the refund claim to offset any damages for termination costs. Westinghouse's claim for termination costs was unaffected by this ruling and continued to trial. At trial, Westinghouse reduced its claim for termination costs from \$482 million to \$424 million. Following a trial on the matter, the court issued its final order in December 2016 denying Westinghouse's claim for termination costs and re-affirming its earlier ruling in favor of Westinghouse on the \$30 million termination fee and Duke Energy Florida's refund claim. Judgment was entered against Duke Energy Florida in the amount of approximately \$34 million, which includes pre-judgment interest. Westinghouse has appealed the trial court's order and Duke Energy Florida has cross-appealed. Duke Energy Florida cannot predict the ultimate outcome of the appeal of the trial court's order.

On March 29, 2017, Westinghouse filed Chapter 11 bankruptcy in the Southern District of New York, which automatically stayed the appeal. On May 23, 2017, the bankruptcy court entered an order lifting the stay with respect to the appeal. Briefing of the appeal concluded on October 20, 2017. Oral argument in the appeal was originally set for March 2018 but has tentatively been rescheduled to May 2018, due to scheduling conflicts.

Ultimate resolution of these matters could have a material effect on the results of operations, financial position or cash flows of Duke Energy Florida. See discussion of the 2017 Settlement and the Levy Nuclear Project in Note 4 for additional information regarding recovery of costs related to Westinghouse. The 2017 Settlement does not permit recovery of any amounts paid to resolve this contract litigation.

MGP Cost Recovery Action

On December 30, 2011, Duke Energy Florida filed a lawsuit against FirstEnergy Corp. (FirstEnergy) to recover investigation and remediation costs incurred by Duke Energy Florida in connection with the restoration of two former MGP sites in Florida. Duke Energy Florida alleged that FirstEnergy, as the successor to Associated Gas & Electric Co., owes past and future contribution and response costs of up to \$43 million for the investigation and remediation of MGP sites. On December 6, 2016, the trial court entered judgment against Duke Energy Florida in the case. In January 2017, Duke Energy Florida appealed the decision to the U.S. Court of Appeals for the Sixth Circuit, which has been fully briefed and argued. Duke Energy Florida cannot predict the outcome of this appeal.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Ohio

Antitrust Lawsuit

In January 2008, four plaintiffs, including individual, industrial and nonprofit customers, filed a lawsuit against Duke Energy Ohio in federal court in the Southern District of Ohio. Plaintiffs alleged Duke Energy Ohio conspired to provide inequitable and unfair price advantages for certain large business consumers by entering into nonpublic option agreements in exchange for their withdrawal of challenges to Duke Energy Ohio's Rate Stabilization Plan implemented in early 2005. In March 2014, a federal judge certified this matter as a class action. Plaintiffs alleged claims of antitrust violations under the federal Robinson Patman Act as well as fraud and conspiracy allegations under the federal Racketeer Influenced and Corrupt Organizations statute and the Ohio Corrupt Practices Act.

During 2015, the parties received preliminary court approval of a settlement agreement. Duke Energy Ohio recorded a litigation settlement reserve of \$81 million classified in Other within Current Liabilities on the Consolidated Balance Sheet at December 31, 2015. Duke Energy Ohio also recognized a pretax charge of \$81 million in (Loss) Income From Discontinued Operations, net of tax in the Consolidated Statements of Operations and Comprehensive Income for the year ended December 31, 2015. The settlement agreement was approved at a federal court hearing on April 19, 2016. Distribution of the settlement checks was approved by the court in January 2017 and all settlement amounts have been paid. See Note 2 for further discussion on the Midwest Generation Exit.

Other Litigation and Legal Proceedings

The Duke Energy Registrants are involved in other legal, tax and regulatory proceedings arising in the ordinary course of business, some of which involve significant amounts. The Duke Energy Registrants believe the final disposition of these proceedings will not have a material effect on their results of operations, cash flows or financial position.

The table below presents recorded reserves based on management's best estimate of probable loss for legal matters, excluding asbestos-related reserves and the exit obligation discussed above related to the termination of an EPC contract. Reserves are classified on the Consolidated Balance Sheets in Other within Other Noncurrent Liabilities and Accounts payable and Other within

The following table presents executory purchased power contracts with terms exceeding one year, excluding contracts classified as leases. Amounts at Duke Energy Ohio were immaterial.

(in millions)	Contract Expiration	Minimum Purchase Amount at December 31, 2017						Total
		2018	2019	2020	2021	2022	Thereafter	
Duke Energy Progress ^(a)	2019-2031	\$ 68	\$ 68	\$ 51	\$ 52	\$ 30	\$ 239	\$ 508
Duke Energy Florida ^(b)	2021-2043	357	374	394	378	376	770	2,649

(a) Contracts represent between 15 percent and 100 percent of net plant output.

(b) Contracts represent between 81 percent and 100 percent of net plant output.

Gas Supply and Capacity Contracts

Duke Energy Ohio and Piedmont routinely enter into long-term natural gas supply commodity and capacity commitments and other agreements that commit future cash flows to acquire services needed in their businesses. These commitments include pipeline and storage capacity contracts and natural gas supply contracts to provide service to customers. Costs arising from the natural gas supply commodity and capacity commitments, while significant, are pass-

Current Liabilities. The reasonably possible range of loss in excess of recorded reserves is not material, other than as described above.

(in millions)	December 31,	
	2017	2016
Reserves for Legal Matters		
Duke Energy	\$ 88	\$ 98
Duke Energy Carolinas	30	23
Progress Energy	55	59
Duke Energy Progress	13	14
Duke Energy Florida	24	28
Duke Energy Ohio	—	4
Piedmont	2	2

OTHER COMMITMENTS AND CONTINGENCIES

General

As part of their normal business, the Duke Energy Registrants are party to various financial guarantees, performance guarantees and other contractual commitments to extend guarantees of credit and other assistance to various subsidiaries, investees and other third parties. These guarantees involve elements of performance and credit risk, which are not fully recognized on the Consolidated Balance Sheets and have unlimited maximum potential payments. However, the Duke Energy Registrants do not believe these guarantees will have a material effect on their results of operations, cash flows or financial position.

Purchase Obligations

Purchased Power

Duke Energy Progress, Duke Energy Florida and Duke Energy Ohio have ongoing purchased power contracts, including renewable energy contracts, with other utilities, wholesale marketers, co-generators and qualified facilities. These purchased power contracts generally provide for capacity and energy payments. In addition, Duke Energy Progress and Duke Energy Florida have various contracts to secure transmission rights.

through costs to customers and are generally fully recoverable through the fuel adjustment or PGA procedures and prudence reviews in North Carolina and South Carolina and under the Tennessee Incentive Plan in Tennessee. In the Midwest, these costs are recovered via the Gas Cost Recovery Rate in Ohio or the Gas Cost Adjustment Clause in Kentucky. The time periods for fixed payments under pipeline and storage capacity contracts are up to 19 years. The time periods for fixed payments under natural gas supply contracts are up to three years. The time period for the natural gas supply purchase commitments is up to 15 years.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Certain storage and pipeline capacity contracts require the payment of demand charges that are based on rates approved by the FERC in order to maintain rights to access the natural gas storage or pipeline capacity on a firm basis during the contract term. The demand charges that are incurred in each period are recognized in the Consolidated Statements of Operations and Comprehensive Income as part of natural gas purchases and are included in Cost of natural gas.

The following table presents future unconditional purchase obligations under natural gas supply and capacity contracts as of December 31, 2017.

(in millions)	Duke Energy	Duke Energy Ohio	Piedmont
2018	\$ 314	\$ 37	\$ 277
2019	280	28	252
2020	252	25	227
2021	249	26	223
2022	226	11	215
Thereafter	1,121	3	1,118
Total	\$ 2,442	\$ 130	\$ 2,312

Operating and Capital Lease Commitments

The Duke Energy Registrants lease office buildings, railcars, vehicles, computer equipment and other property and equipment with various terms and expiration dates. Additionally, Duke Energy Progress has a capital lease related to firm natural gas pipeline transportation capacity. Duke Energy Progress and Duke Energy Florida have entered into certain purchased

power agreements, which are classified as leases. Consolidated capitalized lease obligations are classified as Long-Term Debt or Other within Current Liabilities on the Consolidated Balance Sheets. Amortization of assets recorded under capital leases is included in Depreciation and amortization and Fuel used in electric generation on the Consolidated Statements of Operations.

The following tables present rental expense for operating leases. These amounts are included in Operation, maintenance and other on the Consolidated Statements of Operations.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Duke Energy	\$241	\$242	\$ 313
Duke Energy Carolinas	44	45	41
Progress Energy	130	140	230
Duke Energy Progress	75	68	149
Duke Energy Florida	55	72	81
Duke Energy Ohio	15	16	13
Duke Energy Indiana	23	23	20

(in millions)	Year Ended	Two Months Ended	Years Ended October 31,	
	December 31, 2017	December 31, 2016	2016	2015
Piedmont	\$ 7	\$ 1	\$ 5	\$ 5

The following table presents future minimum lease payments under operating leases, which at inception had a non-cancelable term of more than one year.

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
2018	\$ 233	\$ 36	\$ 133	\$ 77	\$ 56	\$ 20	\$ 22	\$ 6
2019	203	29	126	72	54	12	14	5
2020	183	25	117	62	55	10	10	5
2021	150	19	97	48	49	7	8	6
2022	135	16	90	42	48	4	5	6
Thereafter	882	52	525	344	181	5	7	16
Total	\$1,786	\$177	\$ 1,088	\$ 645	\$ 443	\$ 58	\$ 66	\$ 44

The following table presents future minimum lease payments under capital leases.

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	
2018	\$ 168	\$ 13	\$ 46	\$ 21	\$ 25	\$ 3	\$ 2	
2019	169	13	45	20	25	1	1	
2020	174	13	47	21	26	—	1	
2021	176	8	45	22	25	—	1	
2022	169	8	45	21	24	—	1	
Thereafter	745	109	323	227	95	—	38	
Minimum annual payments	1,601	164	551	332	220	4	44	
Less: amount representing interest	(601)	(103)	(283)	(192)	(91)	—	(33)	
Total	\$ 1,000	\$ 61	\$ 268	\$ 140	\$ 129	\$ 4	\$ 11	

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

6. DEBT AND CREDIT FACILITIES

SUMMARY OF DEBT AND RELATED TERMS

The following tables summarize outstanding debt.

(in millions)	December 31, 2017								
	Weighted Average Interest Rate	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unsecured debt, maturing 2018-2073	4.17%	\$ 20,409	\$ 1,150	\$ 3,950	\$ —	\$ 550	\$ 900	\$ 411	\$ 2,050
Secured debt, maturing 2018-2037	3.15%	4,458	450	1,757	300	1,457	—	—	—
First mortgage bonds, maturing 2018-2047 ^(a)	4.51%	23,529	7,959	11,801	6,776	5,025	1,100	2,669	—
Capital leases, maturing 2018-2051 ^(b)	4.55%	1,000	61	269	139	129	5	11	—
Tax-exempt bonds, maturing 2019-2041 ^(c)	3.23%	941	243	48	48	—	77	572	—
Notes payable and commercial paper ^(d)	1.57%	2,788	—	—	—	—	—	—	—
Money pool/intercompany borrowings	—	—	404	955	390	—	54	311	364
Fair value hedge carrying value adjustment	—	6	6	—	—	—	—	—	—
Unamortized debt discount and premium, net ^(e)	—	1,582	(19)	(30)	(16)	(10)	(33)	(9)	(1)
Unamortized debt issuance costs ^(f)	—	(271)	(47)	(108)	(40)	(56)	(7)	(21)	(12)
Total debt	4.09%	\$ 54,442	\$10,207	\$ 18,642	\$ 7,597	\$ 7,095	\$ 2,096	\$ 3,944	\$ 2,401
Short-term notes payable and commercial paper	—	(2,163)	—	—	—	—	—	—	—
Short-term money pool/intercompany borrowings	—	—	(104)	(805)	(240)	—	(29)	(161)	(364)
Current maturities of long-term debt ^(g)	—	(3,244)	(1,205)	(771)	(3)	(768)	(3)	(3)	(250)
Total long-term debt ^(g)	—	\$ 49,035	\$ 8,898	\$ 17,066	\$ 7,354	\$ 6,327	\$ 2,064	\$ 3,780	\$ 1,787

(a) Substantially all electric utility property is mortgaged under mortgage bond indentures.

(b) Duke Energy includes \$81 million and \$603 million of capital lease purchase accounting adjustments related to Duke Energy Progress and Duke Energy Florida, respectively, related to power purchase agreements that are not accounted for as capital leases in their respective financial statements because of grandfathering provisions in GAAP.

(c) Substantially all tax-exempt bonds are secured by first mortgage bonds or letters of credit.

(d) Includes \$625 million that was classified as Long-Term Debt on the Consolidated Balance Sheets due to the existence of long-term credit facilities that backstop these commercial paper balances, along with Duke Energy's ability and intent to refinance these balances on a long-term basis. The weighted average days to maturity for Duke Energy's commercial paper program was 14 days.

(e) Duke Energy includes \$1,509 million and \$176 million in purchase accounting adjustments related to Progress Energy and Piedmont, respectively.

(f) Duke Energy includes \$47 million in purchase accounting adjustments primarily related to the merger with Progress Energy.

(g) Refer to Note 17 for additional information on amounts from consolidated VIEs.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

December 31, 2016									
(in millions)	Weighted Average Interest Rate	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unsecured debt, maturing 2017-2073	4.30%	\$ 17,812	\$ 1,150	\$ 3,551	\$ —	\$ 150	\$ 810	\$ 415	\$ 1,835
Secured debt, maturing 2017-2037	2.60%	3,909	425	1,819	300	1,519	—	—	—
First mortgage bonds, maturing 2017-2046 ^(a)	4.61%	21,879	7,410	10,800	6,425	4,375	1,000	2,669	—
Capital leases, maturing 2018-2051 ^(a)	4.48%	1,100	22	285	142	143	7	11	—
Tax-exempt bonds, maturing 2017-2041 ^(c)	2.84%	1,053	355	48	48	—	77	572	—
Notes payable and commercial paper ^(d)	1.01%	3,112	—	—	—	—	—	—	—
Money pool/intercompany borrowings ^(e)	—	—	300	1,902	150	297	41	150	—
Fair value hedge carrying value adjustment	6	6	—	—	—	—	—	—	—
Unamortized debt discount and premium, net ^(f)	1,753	(20)	(31)	(16)	(10)	(28)	(9)	(1)	(1)
Unamortized debt issuance costs ^(g)	(242)	(45)	(104)	(38)	(52)	(7)	(22)	(13)	(13)
Total debt	4.07%	\$ 50,382	\$ 9,603	\$ 18,270	\$ 7,011	\$ 6,422	\$ 1,900	\$ 3,786	\$ 1,821
Short-term notes payable and commercial paper	(2,487)	—	—	—	—	—	—	—	—
Short-term money pool/intercompany borrowings	—	—	(729)	—	(297)	(16)	—	—	—
Current maturities of long-term debt ^(h)	(2,319)	(116)	(778)	(452)	(326)	(1)	(3)	(35)	(35)
Total long-term debt^(h)		\$ 45,576	\$ 9,487	\$ 16,763	\$ 6,559	\$ 5,799	\$ 1,883	\$ 3,783	\$ 1,786

(a) Substantially all electric utility property is mortgaged under mortgage bond indentures.

(b) Duke Energy includes \$98 million and \$670 million of capital lease purchase accounting adjustments related to Duke Energy Progress and Duke Energy Florida, respectively, related to power purchase agreements that are not accounted for as capital leases in their respective financial statements because of grandfathering provisions in GAAP.

(c) Substantially all tax-exempt bonds are secured by first mortgage bonds or letters of credit.

(d) Includes \$625 million that was classified as Long-Term Debt on the Consolidated Balance Sheets due to the existence of long-term credit facilities that backstop these commercial paper balances, along with Duke Energy's ability and intent to refinance these balances on a long-term basis. The weighted average days to maturity for Duke Energy and Piedmont's commercial paper programs were 14 days and eight days, respectively.

(e) Progress Energy amount includes a \$1 billion intercompany loan related to the sale of the International Disposal Group. See Note 2 for further discussion of the sale.

(f) Duke Energy includes \$1,653 million and \$197 million purchase accounting adjustments related to the mergers with Progress Energy and Piedmont, respectively.

(g) Duke Energy includes \$53 million in purchase accounting adjustments primarily related to the merger with Progress Energy.

(h) Refer to Note 17 for additional information on amounts from consolidated VIEs.

CURRENT MATURITIES OF LONG-TERM DEBT

The following table shows the significant components of Current maturities of Long-Term Debt on the Consolidated Balance Sheets. The Duke Energy Registrants currently anticipate satisfying these obligations with cash on hand and proceeds from additional borrowings.

(in millions)	Maturity Date	Interest Rate	December 31, 2017
Unsecured Debt			
Duke Energy (Parent)	June 2018	6.250%	\$ 250
Duke Energy (Parent)	June 2018	2.100%	500
Piedmont	December 2018	2.286% ^(b)	250
First Mortgage Bonds			
Duke Energy Carolinas	January 2018	5.250%	400
Duke Energy Carolinas	April 2018	5.100%	300
Duke Energy Florida	June 2018	5.650%	500
Duke Energy Carolinas	November 2018	7.000%	500
Other^(a)			544
Current maturities of long-term debt			\$ 3,244

(a) Includes capital lease obligations, amortizing debt and small bullet maturities.

(b) Debt has a floating interest rate.

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Combined Notes to Consolidated Financial Statements – (Continued)

Maturities and Call Options

The following table shows the annual maturities of long-term debt for the next five years and thereafter. Amounts presented exclude short-term notes payable and commercial paper and money pool borrowings for the Subsidiary Registrants.

(in millions)	December 31, 2017						
	Duke Energy ^(a)	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana Piedmont
2018	\$ 3,244	\$ 1,205	\$ 771	\$ 3	\$ 768	\$ 3	\$ 3 250
2019	3,563	6	2,191	903	490	548	61 —
2020	3,699	906	871	304	568	—	502 —
2021	3,760	502	1,472	602	371	48	69 159
2022	3,010	302	1,176	653	74	23	243 —
Thereafter	33,271	7,182	11,356	4,892	4,824	1,445	2,905 1,628
Total long-term debt, including current maturities	\$ 50,547	\$10,103	\$ 17,837	\$ 7,357	\$ 7,095	\$ 2,067	\$ 3,783 \$ 2,037

(a) Excludes \$1,732 million in purchase accounting adjustments related to the Progress Energy merger and the Piedmont acquisition.

The Duke Energy Registrants have the ability under certain debt facilities to call and repay the obligation prior to its scheduled maturity. Therefore, the actual timing of future cash repayments could be materially different than as presented above.

Short-Term Obligations Classified as Long-Term Debt

Tax-exempt bonds that may be put to the Duke Energy Registrants at the option of the holder and certain commercial paper issuances and money pool borrowings are classified as Long-Term Debt on the Consolidated Balance Sheets. These tax-exempt bonds, commercial paper issuances and money pool borrowings, which are short-term obligations by nature, are classified as long term due to Duke Energy's intent and ability to utilize such borrowings as long-term financing. As Duke Energy's Master Credit Facility and other bilateral letter of credit agreements have non-cancelable terms in excess of one year as of the balance sheet date, Duke Energy has the ability to refinance these short-term obligations on a long-term basis. The following tables show short-term obligations classified as long-term debt.

(in millions)	December 31, 2017				
	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Ohio	Duke Energy Indiana
Tax-exempt bonds	\$ 312	\$ —	\$ —	\$ 27	\$ 285
Commercial paper ^(a)	625	300	150	25	150
Total	\$ 937	\$ 300	\$ 150	\$ 52	\$ 435

(in millions)	December 31, 2016				
	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Ohio	Duke Energy Indiana
Tax-exempt bonds	\$ 347	\$ 35	\$ —	\$ 27	\$ 285
Commercial paper ^(a)	625	300	150	25	150
Total	\$ 972	\$ 335	\$ 150	\$ 52	\$ 435

(a) Progress Energy amounts are equal to Duke Energy Progress amounts.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
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Combined Notes to Consolidated Financial Statements – (Continued)

Summary of Significant Debt Issuances

The following tables summarize significant debt issuances (in millions).

			Year Ended December 31, 2017					
Issuance Date	Maturity Date	Interest Rate	Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio
Unsecured Debt								
April 2017 ^(a)	April 2025	3.364%	\$ 420	\$ 420	\$ —	\$ —	\$ —	\$ —
June 2017 ^(b)	June 2020	2.100%	330	330	—	—	—	—
August 2017 ^(c)	August 2022	2.400%	500	500	—	—	—	—
August 2017 ^(c)	August 2027	3.150%	750	750	—	—	—	—
August 2017 ^(c)	August 2047	3.950%	500	500	—	—	—	—
December 2017 ^(d)	December 2019 ^(k)	2.100%	400	—	—	—	400	—
Secured Debt								
February 2017 ^(e)	June 2034	4.120%	587	—	—	—	—	—
August 2017 ^(f)	December 2036	4.110%	233	—	—	—	—	—
First Mortgage Bonds								
January 2017 ^(g)	January 2020	1.850%	250	—	—	—	250	—
January 2017 ^(g)	January 2027	3.200%	650	—	—	—	650	—
March 2017 ^(h)	June 2046	3.700%	100	—	—	—	—	100
September 2017 ⁽ⁱ⁾	September 2020	1.500% ^(l)	300	—	—	300	—	—
September 2017 ⁽ⁱ⁾	September 2047	3.600%	500	—	—	500	—	—
November 2017 ^(j)	December 2047	3.700%	550	—	550	—	—	—
Total issuances			\$ 6,070	\$ 2,500	\$ 550	\$ 800	\$ 1,300	\$ 100

- (a) Proceeds were used to refinance \$400 million of unsecured debt at maturity and to repay a portion of outstanding commercial paper.
- (b) Debt issued to repay a portion of outstanding commercial paper.
- (c) Debt issued to repay at maturity \$700 million of unsecured debt, to repay outstanding commercial paper and for general corporate purposes.
- (d) Debt issued to fund storm restoration costs related to Hurricane Irma and for general corporate purposes.
- (e) Portfolio financing of four Texas and Oklahoma wind facilities. Duke Energy pledged substantially all of the assets of these wind facilities and is nonrecourse to Duke Energy. Proceeds were used to reimburse Duke Energy for a portion of previously funded construction expenditures.
- (f) Portfolio financing of eight solar facilities located in California, Colorado and New Mexico. Duke Energy pledged substantially all of the assets of these solar facilities and is nonrecourse to Duke Energy. Proceeds were used to reimburse Duke Energy for a portion of previously funded construction expenditures.
- (g) Debt issued to fund capital expenditures for ongoing construction and capital maintenance, to repay a \$250 million aggregate principal amount of bonds at maturity and for general corporate purposes.
- (h) Proceeds were used to fund capital expenditures for ongoing construction, capital maintenance and for general corporate purposes.
- (i) Debt issued to repay at maturity a \$200 million aggregate principal amount of bonds at maturity, pay down intercompany short-term debt and for general corporate purposes, including capital expenditures.
- (j) Debt issued to refinance \$400 million aggregate principal amount of bonds due January 2018, pay down intercompany short-term debt and for general corporate purposes.
- (k) Principal balance will be repaid in equal quarterly installments beginning in March 2018.
- (l) Debt issuance has a floating interest rate.

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Combined Notes to Consolidated Financial Statements – (Continued)

			Year Ended December 31, 2016						
			Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Issuance Date	Maturity Date	Interest Rate							
Unsecured Debt									
April 2016 ^(a)	April 2023	2.875%	\$ 350	\$ 350	\$ —	\$ —	\$ —	\$ —	\$ —
August 2016 ^(b)	September 2021	1.800%	750	750	—	—	—	—	—
August 2016 ^(b)	September 2026	2.650%	1,500	1,500	—	—	—	—	—
August 2016 ^(b)	September 2046	3.750%	1,500	1,500	—	—	—	—	—
Secured Debt									
June 2016 ^(c)	March 2020	1.196%	183	—	—	—	183	—	—
June 2016 ^(c)	September 2022	1.731%	150	—	—	—	150	—	—
June 2016 ^(c)	September 2029	2.538%	436	—	—	—	436	—	—
June 2016 ^(c)	March 2033	2.858%	250	—	—	—	250	—	—
June 2016 ^(c)	September 2036	3.112%	275	—	—	—	275	—	—
August 2016 ^(d)	June 2034	2.747% ⁽ⁱ⁾	228	—	—	—	—	—	—
August 2016 ^(d)	June 2020	2.747% ⁽ⁱ⁾	105	—	—	—	—	—	—
First Mortgage Bonds									
March 2016 ^(e)	March 2023	2.500%	500	—	500	—	—	—	—
March 2016 ^(e)	March 2046	3.875%	500	—	500	—	—	—	—
May 2016 ^(f)	May 2046	3.750%	500	—	—	—	—	—	500
June 2016 ^(e)	June 2046	3.700%	250	—	—	—	—	250	—
September 2016 ^(g)	October 2046	3.400%	600	—	—	—	600	—	—
September 2016 ^(e)	October 2046	3.700%	450	—	—	450	—	—	—
November 2016 ^(h)	December 2046	2.950%	600	—	600	—	—	—	—
Total issuances			\$ 9,127	\$ 4,100	\$ 1,600	\$ 450	\$ 1,894	\$ 250	\$ 500

- (a) Proceeds were used to pay down outstanding commercial paper and for general corporate purposes.
- (b) Proceeds were used to finance a portion of the Piedmont acquisition. The \$4.9 billion Bridge Facility was terminated following the issuance of this debt. See Note 2 for additional information on the Piedmont acquisition.
- (c) DEFPF issued nuclear-asset recovery bonds and used the proceeds to acquire nuclear-asset recovery property from its parent, Duke Energy Florida. The nuclear-asset recovery bonds are payable only from and secured by the nuclear asset-recovery property. DEFPF is consolidated for financial reporting purposes; however, the nuclear asset-recovery bonds do not constitute a debt, liability or other legal obligation of, or interest in, Duke Energy Florida or any of its affiliates other than DEFPF. The assets of DEFPF, including the nuclear-asset recovery property, are not available to pay creditors of Duke Energy Florida or any of its affiliates. Duke Energy Florida used the proceeds from the sale to repay short-term borrowings under the intercompany money pool borrowing arrangement and make an equity distribution of \$649 million to the ultimate parent, Duke Energy (Parent), which repaid short-term borrowings. The nuclear-asset recovery bonds are sequential pay amortizing bonds. The maturity date above represents the scheduled final maturity date for the bonds. See Notes 4 and 17 for additional information.
- (d) Emerald State Solar, LLC, an indirect wholly owned subsidiary of Duke Energy entered into portfolio financing of approximately 22 North Carolina solar facilities. Tranche A of \$228 million is secured by substantially all of the assets of the solar facilities and is nonrecourse to Duke Energy. Tranche B of \$105 million is secured by an Equity Contribution Agreement with Duke Energy. Proceeds were used to reimburse Duke Energy for a portion of previously funded construction expenditures related to the Emerald State Solar, LLC portfolio. The initial interest rate on the loans was six months London Interbank Offered Rate (LIBOR) plus an applicable margin of 1.75 percent plus a 0.125 percent increase every three years thereafter. In connection with this debt issuance, Emerald State Solar, LLC entered into two interest rate swaps to convert the substantial majority of the loan interest payments from variable rates to fixed rates of approximately 1.81 percent for Tranche A and 1.38 percent for Tranche B, plus the applicable margin. See Note 14 for further information on the notional amounts of the interest rate swaps.
- (e) Proceeds were used to fund capital expenditures for ongoing construction, capital maintenance and for general corporate purposes.
- (f) Proceeds were used to repay \$325 million of unsecured debt due June 2016, \$150 million of first mortgage bonds due July 2016 and for general corporate purposes.
- (g) Proceeds were used to fund capital expenditures for ongoing construction, capital maintenance, to repay short-term borrowings under the intercompany money pool borrowing arrangement and for general corporate purposes.
- (h) Proceeds were used to repay at maturity \$350 million aggregate principal amount of certain bonds due December 2016, as well as to fund capital expenditures for ongoing construction and capital maintenance and for general corporate purposes.
- (i) Debt issuance has a floating interest rate.

In July 2016, Piedmont issued \$300 million unsecured notes maturing in November 2046 with an interest rate of 3.64%. Piedmont has the option to redeem all or part of the notes before May 1, 2046, at a redemption price equal to the greater of a) 100% of the principal amount of the notes to be redeemed, and b) the sum of the present values of the remaining scheduled payments of principal and interest on the notes to be redeemed, discounted to the date of redemption on a semi-annual basis at the Treasury Rate as defined in the indenture, as supplemented, plus 25 basis points and any accrued and unpaid interest to the date of redemption. Piedmont has the option to redeem all or part of the notes on or after May 1, 2046, at 100% of the principal amounts plus any accrued and unpaid interest to the date of redemption. Piedmont used the proceeds to fund capital expenditures, to repay short-term borrowings under Piedmont's commercial paper program and for general corporate purposes.

Available Credit Facilities

In March 2017, Duke Energy amended its Master Credit Facility to increase its capacity from \$7.5 billion to \$8 billion, and to extend the termination date of the facility from January 30, 2020, to March 16, 2022. The amendment also added Piedmont as a borrower within the Master Credit Facility. Piedmont's separate \$850 million credit facility was terminated in connection with the amendment. With the amendment, the Duke Energy Registrants, excluding Progress Energy (Parent), have borrowing capacity under the Master Credit Facility up to specified sublimits for each borrower. Duke Energy has the unilateral ability at any time to increase or decrease the borrowing sublimits of each borrower, subject to a maximum sublimit for each borrower. The amount available under the Master Credit Facility has been

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

reduced to backstop issuances of commercial paper, certain letters of credit and variable-rate demand tax-exempt bonds that may be put to the Duke Energy Registrants at the option of the holder. Duke Energy Carolinas and Duke Energy Progress are also required to each maintain \$250 million of available capacity under the Master Credit Facility as security to meet obligations under

plea agreements reached with the U.S. Department of Justice in 2015 related to violations at North Carolina facilities with ash basins.

In January 2018, Duke Energy further amended its Master Credit Facility with consenting lenders to extend \$7.65 billion of our existing \$8 billion Master Credit Facility by one year to March 16, 2023.

The table below includes the current borrowing sublimits and available capacity under these credit facilities.

	December 31, 2017							
(in millions)	Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Facility size ^(a)	\$ 8,000	\$ 2,850	\$ 1,350	\$ 1,250	\$ 800	\$ 450	\$ 600	\$ 700
Reduction to backstop issuances								
Commercial paper ^(b)	(1,799)	(561)	(371)	(314)	—	(45)	(260)	(248)
Outstanding letters of credit	(63)	(54)	(4)	(2)	(1)	—	—	(2)
Tax-exempt bonds	(81)	—	—	—	—	—	(81)	—
Coal ash set-aside	(500)	—	(250)	(250)	—	—	—	—
Available capacity	\$ 5,557	\$ 2,235	\$ 725	\$ 684	\$ 799	\$ 405	\$ 259	\$ 450

(a) Represents the sublimit of each borrower.

(b) Duke Energy issued \$625 million of commercial paper and loaned the proceeds through the money pool to Duke Energy Carolinas, Duke Energy Progress, Duke Energy Ohio and Duke Energy Indiana. The balances are classified as Long-Term Debt Payable to Affiliated Companies in the Consolidated Balance Sheets.

Three-Year Revolving Credit Facility

In June 2017, Duke Energy (Parent) entered into a three-year \$1.0 billion revolving credit facility (the Three Year Revolver). Borrowings under this facility will be used for general corporate purposes.

As of December 31, 2017, \$500 million has been drawn under the Three Year Revolver. This balance is classified as Long-Term Debt on Duke Energy's Consolidated Balance Sheets. Any undrawn commitments can be drawn, and borrowings can be prepaid, at any time throughout the term of the facility. The terms and conditions of the Three Year Revolver are generally consistent with those governing Duke Energy's Master Credit Facility.

Piedmont Term Loan Facility

In June 2017, Piedmont entered into an 18-month term loan facility with commitments totaling \$250 million (the Piedmont Term Loan). Borrowings under the facility will be used for general corporate purposes.

As of December 31, 2017, the entire \$250 million has been drawn under the Piedmont Term Loan. This balance is classified as Long-Term Debt on Piedmont's Consolidated Balance Sheets. The terms and conditions of the Piedmont Term Loan are generally consistent with those governing Duke Energy's Master Credit Facility.

Other Debt Matters

In September 2016, Duke Energy filed a Registration statement (Form S-3) with the SEC. Under this Form S-3, which is uncapped, the Duke Energy Registrants, excluding Progress Energy, may issue debt and other securities in the future at amounts, prices and with terms to be determined at the time of future offerings. The registration statement was filed to replace a similar prior filing upon expiration of its three-year term and also allows for the issuance of common stock by Duke Energy.

Duke Energy has an effective Form S-3 with the SEC to sell up to \$3 billion of variable denomination floating-rate demand notes, called PremierNotes. The Form S-3 states that no more than \$1.5 billion of the notes will be outstanding at any particular time. The notes are offered on a continuous basis

and bear interest at a floating rate per annum determined by the Duke Energy PremierNotes Committee, or its designee, on a weekly basis. The interest rate payable on notes held by an investor may vary based on the principal amount of the investment. The notes have no stated maturity date, are non-transferable and may be redeemed in whole or in part by Duke Energy or at the investor's option at any time. The balance as of December 31, 2017, and 2016 was \$986 million and \$1,090 million, respectively. The notes are short-term debt obligations of Duke Energy and are reflected as Notes payable and commercial paper on Duke Energy's Consolidated Balance Sheets.

In January 2017, Duke Energy amended its Form S-3 to add Piedmont as a registrant and included in the amendment a prospectus for Piedmont under which it may issue debt securities in the same manner as other Duke Energy Registrants.

Duke Energy guaranteed debt issued by Duke Energy Carolinas of \$650 million and \$762 million, respectively, as of December 31, 2017, and 2016.

Money Pool

The Subsidiary Registrants, excluding Progress Energy, are eligible to receive support for their short-term borrowing needs through participation with Duke Energy and certain of its subsidiaries in a money pool arrangement. Under this arrangement, those companies with short-term funds may provide short-term loans to affiliates participating in this arrangement. The money pool is structured such that the Subsidiary Registrants, excluding Progress Energy, separately manage their cash needs and working capital requirements. Accordingly, there is no net settlement of receivables and payables between money pool participants. Duke Energy (Parent), may loan funds to its participating subsidiaries, but may not borrow funds through the money pool. Accordingly, as the money pool activity is between Duke Energy and its wholly owned subsidiaries, all money pool balances are eliminated within Duke Energy's Consolidated Balance Sheets.

Money pool receivable balances are reflected within Notes receivable from affiliated companies on the Subsidiary Registrants' Consolidated Balance Sheets. Money pool payable balances are reflected within either Notes payable to affiliated companies or Long-Term Debt Payable to Affiliated Companies on the Subsidiary Registrants' Consolidated Balance Sheets.

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Restrictive Debt Covenants

The Duke Energy Registrants' debt and credit agreements contain various financial and other covenants. Duke Energy's Master Credit Facility contains a covenant requiring the debt-to-total capitalization ratio not to exceed 65 percent for each borrower, excluding Piedmont, and 70 percent for Piedmont. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements. As of December 31, 2017, each of the Duke Energy Registrants was in compliance with all covenants related to their debt agreements. In addition, some credit agreements may allow for acceleration of payments or termination of the agreements due to nonpayment, or acceleration of other significant indebtedness of the borrower or

some of its subsidiaries. None of the debt or credit agreements contain material adverse change clauses.

Other Loans

As of December 31, 2017, and 2016, Duke Energy had loans outstanding of \$701 million, including \$38 million at Duke Energy Progress and \$661 million, including \$39 million at Duke Energy Progress, respectively, against the cash surrender value of life insurance policies it owns on the lives of its executives. The amounts outstanding were carried as a reduction of the related cash surrender value that is included in Other within Investments and Other Assets on the Consolidated Balance Sheets.

7. GUARANTEES AND INDEMNIFICATIONS

Duke Energy and Progress Energy have various financial and performance guarantees and indemnifications, which are issued in the normal course of business. As discussed below, these contracts include performance guarantees, stand-by letters of credit, debt guarantees, surety bonds and indemnifications. Duke Energy and Progress Energy enter into these arrangements to facilitate commercial transactions with third parties by enhancing the value of the transaction to the third party. At December 31, 2017, Duke Energy and Progress Energy do not believe conditions are likely for significant performance under these guarantees. To the extent liabilities are incurred as a result of the activities covered by the guarantees, such liabilities are included on the accompanying Consolidated Balance Sheets.

On January 2, 2007, Duke Energy completed the spin-off of its natural gas businesses to shareholders. Guarantees issued by Duke Energy or its affiliates, or assigned to Duke Energy prior to the spin-off, remained with Duke Energy subsequent to the spin-off. Guarantees issued by Spectra Energy Capital, LLC (Spectra Capital) or its affiliates prior to the spin-off remained with Spectra Capital subsequent to the spin-off, except for guarantees that were later assigned to Duke Energy. Duke Energy has indemnified Spectra Capital against any losses incurred under certain of the guarantee obligations that remain with Spectra Capital. At December 31, 2017, the maximum potential amount of future payments associated with these guarantees was \$205 million, the majority of which expires by 2028.

Duke Energy has issued performance guarantees to customers and other third parties that guarantee the payment and performance of other parties, including certain non-wholly owned entities, as well as guarantees of debt of certain non-consolidated entities and less than wholly owned consolidated entities. If such entities were to default on payments or performance, Duke Energy would be required under the guarantees to make payments on the obligations of the less than wholly owned entity. The maximum potential amount of future payments required under these guarantees as of December 31, 2017, was \$326 million. Of this amount, \$11 million relates to guarantees issued on behalf of less than wholly owned consolidated entities, with the remainder related to guarantees issued on behalf of third parties and unconsolidated affiliates of Duke Energy. Of the guarantees noted above, \$281 million of the guarantees expire between 2019 and 2030, with the remaining performance guarantees having no contractual expiration.

In October 2017, ACP executed a \$3.4 billion revolving credit facility with a stated maturity date of October 2021. Duke Energy entered into a guarantee agreement to support its share of the ACP revolving credit facility. Duke Energy's

maximum exposure to loss under the terms of the guarantee is limited to 47 percent of the outstanding borrowings under the credit facility, which was \$312 million as of December 31, 2017.

Duke Energy has guaranteed certain issuers of surety bonds, obligating itself to make payment upon the failure of a wholly owned and former non-wholly owned entity to honor its obligations to a third party. Under these arrangements, Duke Energy has payment obligations that are triggered by a draw by the third party or customer due to the failure of the wholly owned or former non-wholly owned entity to perform according to the terms of its underlying contract. At December 31, 2017, Duke Energy had guaranteed \$81 million of outstanding surety bonds, most of which have no set expiration.

Duke Energy uses bank-issued stand-by letters of credit to secure the performance of wholly owned and non-wholly owned entities to a third party or customer. Under these arrangements, Duke Energy has payment obligations to the issuing bank that are triggered by a draw by the third party or customer due to the failure of the wholly owned or non-wholly owned entity to perform according to the terms of its underlying contract. At December 31, 2017, Duke Energy had issued a total of \$449 million in letters of credit, which expire between 2018 and 2022. The unused amount under these letters of credit was \$66 million.

Duke Energy and Progress Energy have issued indemnifications for certain asset performance, legal, tax and environmental matters to third parties, including indemnifications made in connection with sales of businesses. At December 31, 2017, the estimated maximum exposure for these indemnifications was \$89 million, most of which have no set expiration. For certain matters for which Progress Energy receives timely notice, indemnity obligations may extend beyond the notice period. Certain indemnifications related to discontinued operations have no limitations as to time or maximum potential future payments.

Duke Energy recognized \$21 million and \$13 million, as of December 31, 2017, and 2016, respectively, primarily in Other within Other Noncurrent Liabilities on the Consolidated Balance Sheets, for the guarantees discussed above. As current estimates change, additional losses related to guarantees and indemnifications to third parties, which could be material, may be recorded by the Duke Energy Registrants in the future.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

8. JOINT OWNERSHIP OF GENERATING AND TRANSMISSION FACILITIES

The Duke Energy Registrants maintain ownership interests in certain jointly owned generating and transmission facilities. The Duke Energy Registrants are entitled to a share of the generating capacity and output of each unit equal to their respective ownership interests. The Duke Energy Registrants pay their ownership share of additional construction costs, fuel inventory

purchases and operating expenses. The Duke Energy Registrants share of revenues and operating costs of the jointly owned facilities is included within the corresponding line in the Consolidated Statements of Operations. Each participant in the jointly owned facilities must provide its own financing.

The following table presents the Duke Energy Registrants' interest of jointly owned plant or facilities and amounts included on the Consolidated Balance Sheets. All facilities are operated by the Duke Energy Registrants and are included in the Electric Utilities and Infrastructure segment.

(in millions except for ownership interest)	December 31, 2017			
	Ownership Interest	Property, Plant and Equipment	Accumulated Depreciation	Construction Work in Progress
Duke Energy Carolinas				
Catawba Nuclear Station (units 1 and 2) ^(a)	19.25%	\$ 927	\$ 651	\$ 19
Lee Combined Combustion Station ^(b)	86.67%	—	—	552
Duke Energy Ohio				
Transmission facilities ^(c)	Various	89	63	1
Duke Energy Indiana				
Gibson Station (unit 5) ^(d)	50.05%	348	162	9
Vermillion Generating Station ^(e)	62.5%	155	120	—
Transmission and local facilities ^(d)	Various	4,672	1,739	—

(a) Jointly owned with North Carolina Municipal Power Agency Number 1, NCEMC and Piedmont Municipal Power Agency.

(b) Jointly owned with NCEMC.

(c) Jointly owned with America Electric Power Generation Resources and The Dayton Power and Light Company.

(d) Jointly owned with Wabash Valley Power Association, Inc. (WVPA) and Indiana Municipal Power Agency.

(e) Jointly owned with WVPA.

9. ASSET RETIREMENT OBLIGATIONS

Duke Energy records an ARO when it has a legal obligation to incur retirement costs associated with the retirement of a long-lived asset and the obligation can be reasonably estimated. Certain assets of the Duke Energy Registrants' have an indeterminate life, such as transmission and distribution facilities, and thus the fair value of the retirement obligation is not reasonably estimable. A liability for these AROs will be recorded when a fair value is determinable.

The Duke Energy Registrants' regulated operations accrue costs of removal for property that does not have an associated legal retirement obligation based on regulatory orders from state commissions. These costs of removal are recorded as a regulatory liability in accordance with regulatory accounting treatment. The Duke Energy Registrants do not accrue the estimated cost of removal for any nonregulated assets. See Note 4 for the estimated cost of removal for assets without an associated legal retirement obligation, which are included in Regulatory liabilities on the Consolidated Balance Sheets.

The following table presents the AROs recorded on the Consolidated Balance Sheets.

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Decommissioning of nuclear power facilities ^(a)	\$ 5,371	\$ 1,944	\$ 3,246	\$ 2,564	\$ 681	\$ —	\$ —	\$ —
Closure of ash impoundments	4,525	1,629	2,094	2,075	19	39	763	—
Other ^(b)	279	37	74	34	42	45	18	15
Total asset retirement obligation	\$ 10,175	\$ 3,610	\$ 5,414	\$ 4,673	\$ 742	\$ 84	\$ 781	\$ 15
Less: current portion	689	337	295	295	—	3	54	—
Total noncurrent asset retirement obligation	\$ 9,486	\$ 3,273	\$ 5,119	\$ 4,378	\$ 742	\$ 81	\$ 727	\$ 15

(a) Duke Energy amount includes purchase accounting adjustments related to the merger with Progress Energy.

(b) Primarily includes obligations related to asbestos removal. Duke Energy Ohio and Piedmont also include AROs related to the retirement of natural gas mains and services. Duke Energy includes AROs related to the removal of renewable energy generation assets.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Nuclear Decommissioning Liability

AROs related to nuclear decommissioning are based on site-specific cost studies. The NCUC, PSCSC and FPSC require updated cost estimates for decommissioning nuclear plants every five years.

The following table summarizes information about the most recent site-specific nuclear decommissioning cost studies. Decommissioning costs in the table below are stated in 2013 or 2014 dollars, depending on the year of the cost study, and include costs to decommission plant components not subject to radioactive contamination.

(in millions)	Annual Funding Requirement ^(a)	Decommissioning Costs ^{(a)(b)}	Year of Cost Study
Duke Energy	\$ 14	\$ 8,150	2013 and 2014
Duke Energy Carolinas	—	3,420	2013
Duke Energy Progress	14	3,550	2014
Duke Energy Florida	—	1,180	2013

(a) Amounts for Progress Energy equal the sum of Duke Energy Progress and Duke Energy Florida.

(b) Amounts include the Subsidiary Registrant's ownership interest in jointly owned reactors. Other joint owners are responsible for decommissioning costs related to their interest in the reactors.

Nuclear Decommissioning Trust Funds

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida each maintain NDTFs that are intended to pay for the decommissioning costs of their respective nuclear power plants. The NDTF investments are managed and invested in accordance with applicable requirements of various regulatory bodies including the NRC, FERC, NCUC, PSCSC, FPSC and the Internal Revenue Service (IRS).

Use of the NDTF investments is restricted to nuclear decommissioning activities including license termination, spent fuel and site restoration. The license termination and spent fuel obligations relate to contaminated decommissioning and are recorded as AROs. The site restoration obligation relates to non-contaminated decommissioning and is recorded to cost of removal within Regulatory liabilities on the Consolidated Balance Sheets.

The following table presents the fair value of NDTF assets legally restricted for purposes of settling AROs associated with nuclear decommissioning. Duke Energy Florida is actively decommissioning Crystal River Unit 3 and was granted an exemption from the NRC which allows for use of the NDTF for all aspects of nuclear decommissioning. The entire balance of Duke Energy Florida's NDTF may be applied toward license termination, spent fuel and site restoration costs incurred to decommission Crystal River Unit 3. See Note 16 for additional information related to the fair value of the Duke Energy Registrants' NDTFs.

(in millions)	December 31,	
	2017	2016
Duke Energy	\$ 5,864	\$ 5,099
Duke Energy Carolinas	3,321	2,882
Duke Energy Progress	2,543	2,217

Nuclear Operating Licenses

Operating licenses for nuclear units are potentially subject to extension. The following table includes the current expiration of nuclear operating licenses.

Unit	Year of Expiration
Duke Energy Carolinas	
Catawba Units 1 and 2	2043
McGuire Unit 1	2041
McGuire Unit 2	2043
Oconee Units 1 and 2	2033

Unit	Year of Expiration
Oconee Unit 3	2034
Duke Energy Progress	
Brunswick Unit 1	2036
Brunswick Unit 2	2034
Harris	2046
Robinson	2030

Duke Energy Florida has requested the NRC terminate the operating license for Crystal River Unit 3 as it permanently ceased operation in February 2013. In January 2018, Crystal River Unit 3 reached a SAFSTOR status.

Closure of Ash Impoundments

The Duke Energy Registrants are subject to state and federal regulations covering the closure of coal ash impoundments, including the EPA CCR rule and the Coal Ash Act, and other agreements. AROs recorded on the Duke Energy Registrants' Consolidated Balance Sheets include the legal obligation for closure of coal ash basins and the disposal of related ash as a result of these regulations and agreements.

The Coal Ash Act, as amended, requires excavation of the Sutton, Riverbend and Dan River basins by August 1, 2019, and Asheville basins by August 1, 2022. Excavation at these sites may include a combination of transfer of coal ash to an engineered landfill or conversion for beneficial use. Basins at the H.F. Lee, Cape Fear and Weatherspoon sites are required to be closed through excavation no later than August 1, 2028. Excavation at these sites can include conversion of the basin to a lined industrial landfill, transfer of ash to an engineered landfill or conversion for beneficial use. The remaining basins are required to be closed no later than December 31, 2024, through conversion to a lined industrial landfill, transfer to an engineered landfill or conversion for beneficial use, unless certain dam improvement projects and alternative drinking water source projects are completed by October 15, 2018. Upon satisfactory completion of these projects, the closure deadline would be extended to December 31, 2029, and could include closure through the combination of a cap system and a groundwater monitoring system.

The Coal Ash Act also required the installation and operation of three large-scale coal ash beneficiation projects to produce reprocessed ash for use in the concrete industry. Duke Energy selected the Buck, H.F. Lee and Cape Fear plants for these projects. Closure at these sites is required to be completed no later than December 31, 2029.

The Coal Ash Act includes a variance procedure for compliance deadlines and other issues surrounding the management of CCR and CCR surface impoundments and prohibits cost recovery in customer rates for unlawful discharge of ash impoundment waters occurring after January 1, 2014. The Coal Ash Act leaves the decision on cost recovery determinations related to closure of ash impoundments to the normal ratemaking processes before utility regulatory commissions. Closure plans and all associated permits must be approved by NCDEQ before any closure work can begin.

The EPA CCR rule establishes requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring and protection procedures and other operational and reporting procedures to ensure the safe disposal and management of CCR. The EPA CCR rule has certain requirements which if not met could initiate impoundment closure and require closure completion within five years. The EPA CCR rule includes extension requirements, which if met could allow the extension of closure completion by up to 10 years.

The ARO amount recorded on the Consolidated Balance Sheets is based upon estimated closure costs for impacted ash impoundments. The amount

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

recorded represents the discounted cash flows for estimated closure costs based upon either specific closure plans or the probability weightings of the potential closure methods as evaluated on a site-by-site basis. Actual costs to be incurred will be dependent upon factors that vary from site to site. The most significant factors are the method and time frame of closure at the individual sites. Closure methods considered include removing the water from ash basins, consolidating material as necessary and capping the ash with a synthetic barrier, excavating and relocating the ash to a lined structural fill or lined landfill or recycling the ash for concrete or some other beneficial use. The ultimate method and timetable for closure will be in compliance with standards set by federal and state regulations and other agreements. The ARO amount will be adjusted as additional information is gained through the closure and post-closure process, including acceptance and approval of compliance approaches which may change management assumptions, and may result in a material change to the balance. See ARO Liability Rollforward section below for information on revisions made to the coal ash liability during 2017 and 2016.

Asset retirement costs associated with the AROs for operating plants and retired plants are included in Net property, plant and equipment and Regulatory assets, respectively, on the Consolidated Balance Sheets. See Note 4 for additional information on Regulatory assets related to AROs.

Cost recovery for future expenditures will be pursued through the normal ratemaking process with federal and state utility commissions, which permit recovery of necessary and prudently incurred costs associated with Duke Energy's regulated operations. See Note 4 for additional information on recovery of coal ash costs.

ARO Liability Rollforward

During 2017 and 2016, the Duke Energy Registrants updated coal ash ARO liability estimates based on additional site-specific information for the related costs, methods and timing of work to be performed. Actual closure costs incurred could be materially different from current estimates that form the basis of the recorded AROs.

The following tables present changes in the liability associated with AROs.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Balance at December 31, 2015	\$ 10,249	\$ 3,918	\$ 5,369	\$ 4,567	\$ 802	\$ 125	\$ 525
Acquisitions ^(a)	22	—	2	—	2	—	—
Accretion expense ^(b)	400	187	230	194	35	5	24
Liabilities settled ^(c)	(613)	(287)	(272)	(212)	(60)	(5)	(49)
Liabilities incurred in the current year	51	—	3	3	—	—	29
Revisions in estimates of cash flows	502	77	143	145	(1)	(48)	337
Balance at December 31, 2016	10,611	3,895	5,475	4,697	778	77	866
Accretion expense ^(b)	435	184	228	195	33	3	32
Liabilities settled ^(c)	(619)	(282)	(270)	(204)	(65)	(7)	(49)
Liabilities incurred in the current year ^(d)	51	5	—	—	—	7	29
Revisions in estimates of cash flows	(303)	(192)	(19)	(15)	(4)	4	(97)
Balance at December 31, 2017	\$ 10,175	\$ 3,610	\$ 5,414	\$ 4,673	\$ 742	\$ 84	\$ 781

(a) Duke Energy amount relates to the Piedmont acquisition. See Note 2 for additional information.

(b) Substantially all accretion expense for the years ended December 31, 2017, and 2016 relates to Duke Energy's regulated electric operations and has been deferred in accordance with regulatory accounting treatment.

(c) Amounts primarily relate to ash impoundment closures and nuclear decommissioning of Crystal River Unit 3.

(d) Amounts primarily relate to AROs recorded as a result of state agency closure requirements at Duke Energy Indiana.

(in millions)	Piedmont
Balance at October 31, 2015	\$ 20
Accretion expense	1
Liabilities settled	(7)
Liabilities incurred in the current year	6
Revisions in estimates of cash flows	(6)
Balance at October 31, 2016	14
Liabilities settled	(1)
Liabilities incurred in the current year	1
Balance at December 31, 2016	14
Accretion expense	1
Liabilities settled	(8)
Liabilities incurred in the current year	8
Balance at December 31, 2017	\$ 15

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

10. PROPERTY, PLANT AND EQUIPMENT

The following tables summarize the property, plant and equipment for Duke Energy and its subsidiary registrants.

(in millions)	Estimated Useful Life (Years)	December 31, 2017							
		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Land		\$ 1,559	\$ 467	\$ 767	\$ 424	\$ 343	\$ 134	\$ 111	\$ 41
Plant – Regulated									
Electric generation, distribution and transmission	8-100	93,687	35,657	39,419	24,502	14,917	4,870	13,741	—
Natural gas transmission and distribution	12-80	8,292	—	—	—	—	2,559	—	5,733
Other buildings and improvements	15-100	1,936	647	652	316	336	243	240	154
Plant – Nonregulated									
Electric generation, distribution and transmission ^(a)	5-30	4,273	—	—	—	—	—	—	—
Other buildings and improvements	25-35	465	—	—	—	—	—	—	—
Nuclear fuel		3,680	2,120	1,560	1,560	—	—	—	—
Equipment	3-55	2,122	402	555	416	139	348	169	266
Construction in process		6,995	2,614	3,059	1,434	1,625	350	416	231
Other	3-40	4,498	1,032	1,311	931	370	228	271	300
Total property, plant and equipment ^{(b)(e)}		127,507	42,939	47,323	29,583	17,730	8,732	14,948	6,725
Total accumulated depreciation – regulated ^{(c)(d)(e)}		(39,742)	(15,063)	(15,857)	(10,903)	(4,947)	(2,691)	(4,662)	(1,479)
Total accumulated depreciation – nonregulated ^{(d)(e)}		(1,795)	—	—	—	—	—	—	—
Generation facilities to be retired, net		421	—	421	421	—	—	—	—
Total net property, plant and equipment		\$ 86,391	\$ 27,876	\$ 31,887	\$ 19,101	\$ 12,783	\$ 6,041	\$ 10,286	\$ 5,246

(a) Includes a pretax impairment charge of \$58 million on a wholly owned non-contracted wind project. See discussion below.

(b) Includes capitalized leases of \$1,294 million, \$81 million, \$272 million, \$139 million, \$133 million, \$80 million and \$35 million at Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio and Duke Energy Indiana, respectively, primarily within Plant – Regulated. The Progress Energy, Duke Energy Progress and Duke Energy Florida amounts are net of \$114 million, \$11 million and \$103 million, respectively, of accumulated amortization of capitalized leases.

(c) Includes \$2,113 million, \$1,283 million, \$831 million and \$831 million of accumulated amortization of nuclear fuel at Duke Energy, Duke Energy Carolinas, Progress Energy and Duke Energy Progress, respectively.

(d) Includes accumulated amortization of capitalized leases of \$57 million, \$11 million, \$21 million and \$9 million at Duke Energy, Duke Energy Carolinas, Duke Energy Ohio and Duke Energy Indiana, respectively.

(e) Includes gross property, plant and equipment cost of consolidated VIEs of \$3,941 million and accumulated depreciation of consolidated VIEs of \$598 million at Duke Energy.

(in millions)	Estimated Useful Life (Years)	December 31, 2016							
		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Land		\$ 1,501	\$ 432	\$ 735	\$ 393	\$ 342	\$ 150	\$ 106	\$ 39
Plant – Regulated									
Electric generation, distribution and transmission	8-100	89,864	34,515	37,596	23,683	13,913	4,593	13,160	—
Natural gas transmission and distribution	12-67	7,738	—	—	—	—	2,456	—	5,282
Other buildings and improvements	15-100	1,692	502	634	293	341	211	197	148
Plant – Nonregulated									
Electric generation, distribution and transmission	5-30	4,298	—	—	—	—	—	—	—
Other buildings and improvements	25-35	421	—	—	—	—	—	—	—
Nuclear fuel		3,572	2,092	1,480	1,480	—	—	—	—
Equipment	3-38	1,941	358	505	378	127	338	156	260
Construction in process		6,186	2,324	2,708	1,329	1,379	206	396	210
Other	5-40	4,184	904	1,206	863	332	172	226	235
Total property, plant and equipment ^{(b)(d)}		121,397	41,127	44,864	28,419	16,434	8,126	14,241	6,174
Total accumulated depreciation – regulated ^{(b)(c)(d)}		(37,831)	(14,365)	(15,212)	(10,561)	(4,644)	(2,579)	(4,317)	(1,360)
Total accumulated depreciation – nonregulated ^{(c)(d)}		(1,575)	—	—	—	—	—	—	—
Generation facilities to be retired, net		529	—	529	529	—	—	—	—
Total net property, plant and equipment		\$ 82,520	\$ 26,762	\$ 30,181	\$ 18,387	\$ 11,790	\$ 5,547	\$ 9,924	\$ 4,814

(a) Includes capitalized leases of \$1,355 million, \$40 million, \$288 million, \$142 million, \$146 million, \$81 million and \$35 million at Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio and Duke Energy Indiana, respectively, primarily within Plant – Regulated. The Progress Energy, Duke Energy Progress and Duke Energy Florida amounts are net of \$99 million, \$9 million and \$90 million, respectively, of accumulated amortization of capitalized leases.

(b) Includes \$1,922 million, \$1,192 million, \$730 million and \$730 million of accumulated amortization of nuclear fuel at Duke Energy, Duke Energy Carolinas, Progress Energy and Duke Energy Progress, respectively.

(c) Includes accumulated amortization of capitalized leases of \$50 million, \$9 million, \$19 million and \$8 million at Duke Energy, Duke Energy Carolinas, Duke Energy Ohio and Duke Energy Indiana, respectively.

(d) Includes gross property, plant and equipment cost of consolidated VIEs of \$2,591 million and accumulated depreciation of consolidated VIEs of \$411 million at Duke Energy.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

During the year ended December 31, 2017, Duke Energy recorded a pretax impairment charge of \$69 million on a wholly owned non-contracted wind project. The impairment was recorded within Impairment charges on Duke Energy's Consolidated Statements of Operations. \$58 million of the impairment related to property, plant and equipment and \$11 million of the impairment related to a net intangible asset; see Note 11 for additional information. The charge represents the excess carrying value over the estimated fair value

of the project, which was based on a Level 3 Fair Value measurement that was determined from the income approach using discounted cash flows. The impairment was primarily due to the non-contracted wind project being located in a market that has experienced continued declining market pricing during 2017 and declining long-term forecasted energy and capacity prices, driven by low natural gas prices, additional renewable generation placed in service and lack of significant load growth.

The following tables present capitalized interest, which includes the debt component of AFUDC.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Duke Energy	\$128	\$100	\$ 98
Duke Energy Carolinas	45	38	38
Progress Energy	45	31	24
Duke Energy Progress	21	17	20
Duke Energy Florida	24	14	4
Duke Energy Ohio	10	8	10
Duke Energy Indiana	9	7	6

(in millions)	Year Ended	Two Months Ended	Years Ended October 31,	
	December 31, 2017	December 31, 2016	2016	2015
Piedmont	\$ 12	\$ 2	\$ 12	\$ 11

Operating Leases

Duke Energy's Commercial Renewables segment operates various renewable energy projects and sells the generated output to utilities, electric cooperatives, municipalities and commercial and industrial customers through long-term contracts. In certain situations, these long-term contracts and the associated renewable energy projects qualify as operating leases. Rental income from these leases is accounted for as Operating Revenues in the Consolidated Statements of Operations. There are no minimum lease

payments as all payments are contingent based on actual electricity generated by the renewable energy projects. Contingent lease payments were \$262 million, \$216 million, and \$172 million for the years ended December 31, 2017, 2016 and 2015. As of December 31, 2017, renewable energy projects owned by Duke Energy and accounted for as operating leases had a cost basis of \$3,153 million and accumulated depreciation of \$459 million. These assets are principally classified as nonregulated electric generation and transmission assets.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

11. GOODWILL AND INTANGIBLE ASSETS

GOODWILL

Duke Energy

The following table presents goodwill by reportable operating segment for Duke Energy included on Duke Energy's Consolidated Balance Sheets at December 31, 2017, and 2016.

(in millions)	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total
Goodwill Balance at December 31, 2016	\$ 17,379	\$ 1,924	\$ 122	\$ 19,425
Accumulated impairment charges ^(a)	—	—	(29)	(29)
Goodwill at December 31, 2017	\$ 17,379	\$ 1,924	\$ 93	\$ 19,396

(a) Duke Energy evaluated the recoverability of goodwill during 2017 and recorded impairment charges of \$29 million related to the Energy Management Solutions reporting unit within the Commercial Renewables segment. The fair value of the reporting unit was determined based on the market approach.

Duke Energy Ohio

Duke Energy Ohio's Goodwill balance of \$920 million, allocated \$596 million to Electric Utilities and Infrastructure and \$324 million to Gas Utilities and Infrastructure, is presented net of accumulated impairment charges of \$216 million on the Consolidated Balance Sheets at December 31, 2017, and 2016.

Intangible Assets

The following tables show the carrying amount and accumulated amortization of intangible assets included in Other within Other Noncurrent Assets on the Consolidated Balance Sheets of the Duke Energy Registrants at December 31, 2017 and 2016.

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Emission allowances	\$ 19	\$ 1	\$ 5	\$ 2	\$ 3	\$ —	\$ 13	\$ —
Renewable energy certificates	148	38	107	107	—	3	—	—
Natural gas, coal and power contracts	24	—	—	—	—	—	24	—
Renewable operating and development projects	79	—	—	—	—	—	—	—
Other	6	—	—	—	—	—	—	3
Total gross carrying amounts	276	39	112	109	3	3	37	3
Accumulated amortization – natural gas, coal and power contracts	(19)	—	—	—	—	—	(19)	—
Accumulated amortization – renewable operating and development projects	(22)	—	—	—	—	—	—	—
Accumulated amortization – other	(5)	—	—	—	—	—	—	(3)
Total accumulated amortization	(46)	—	—	—	—	—	(19)	(3)
Total intangible assets, net	\$ 230	\$ 39	\$ 112	\$ 109	\$ 3	\$ 3	\$ 18	\$ —

Progress Energy

Progress Energy's Goodwill is included in the Electric Utilities and Infrastructure operating segment and there are no accumulated impairment charges.

Piedmont

Piedmont's Goodwill is included in the Gas Utilities and Infrastructure operating segment and there are no accumulated impairment charges. Effective with Piedmont's fiscal year being changed to December 31, as discussed in Note 1, Piedmont changed the date of its annual impairment testing of goodwill from October 31 to August 31 to align with the other Duke Energy Registrants.

Impairment Testing

Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont are required to perform an annual goodwill impairment test as of the same date each year and, accordingly, perform their annual impairment testing of goodwill as of August 31. Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont update their test between annual tests if events or circumstances occur that would more likely than not reduce the fair value of a reporting unit below its carrying value. Except for the Energy Management Solutions reporting unit, the fair value of all other reporting units for Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont exceeded their respective carrying values at the date of the annual impairment analysis.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Emission allowances	\$ 19	\$ 1	\$ 6	\$ 2	\$ 4	\$ —	\$ 13	\$ —
Renewable energy certificates	125	36	84	84	—	4	—	—
Natural gas, coal and power contracts	24	—	—	—	—	—	24	—
Renewable operating and development projects	97	—	—	—	—	—	—	—
Other	6	—	—	—	—	—	—	3
Total gross carrying amounts	271	37	90	86	4	4	37	3
Accumulated amortization – natural gas, coal and power contracts	(17)	—	—	—	—	—	(17)	—
Accumulated amortization – renewable operating and development projects	(23)	—	—	—	—	—	—	—
Accumulated amortization – other	(5)	—	—	—	—	—	—	(3)
Total accumulated amortization	(45)	—	—	—	—	—	(17)	(3)
Total intangible assets, net	\$ 226	\$ 37	\$ 90	\$ 86	\$ 4	\$ 4	\$ 20	\$ —

During the year ended December 31, 2017, Duke Energy recorded a pretax impairment charge of \$69 million on a wholly owned non-contracted wind project. The impairment was recorded within Impairment charges on Duke Energy's Consolidated Statements of Operations. \$58 million of the impairment related to property, plant and equipment and \$11 million of the impairment related to a net intangible asset that was recorded in 2007 when the project was acquired. Prior to the impairment, the gross amount of the intangible asset was \$18 million and the accumulated amortization was \$7 million. The intangible asset was fully impaired. See Note 10 for additional information.

Amortization Expense

The following table presents amortization expense for natural gas, coal and power contracts, renewable operating projects and other intangible assets.

(in millions)	December 31,		
	2017	2016	2015
Duke Energy	\$ 7	\$ 6	\$ 5
Duke Energy Indiana	1	1	1

The table below shows the expected amortization expense for the next five years for intangible assets as of December 31, 2017. The expected amortization expense includes estimates of emission allowances consumption and estimates of consumption of commodities such as natural gas and coal under existing contracts, as well as estimated amortization related to renewable operating projects. The amortization amounts discussed below are estimates and actual amounts may differ from these estimates due to such factors as changes in consumption patterns, sales or impairments of emission allowances or other intangible assets, delays in the in-service dates of renewable assets, additional intangible acquisitions and other events.

(in millions)	2018	2019	2020	2021	2022
Duke Energy	\$ 3	\$ 2	\$ 2	\$ 2	\$ 2
Duke Energy Indiana	1	—	—	—	—

12. INVESTMENTS IN UNCONSOLIDATED AFFILIATES

EQUITY METHOD INVESTMENTS

Investments in domestic and international affiliates that are not controlled by Duke Energy, but over which it has significant influence, are accounted for using the equity method.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

The following table presents Duke Energy's investments in unconsolidated affiliates accounted for under the equity method, as well as the respective equity in earnings, by segment.

(in millions)	Years Ended December 31,				
	2017		2016		2015
	Investments	Equity in earnings	Investments	Equity in earnings	Equity in earnings
Electric Utilities and Infrastructure	\$ 89	\$ 5	\$ 93	\$ 5	\$ (2)
Gas Utilities and Infrastructure	763	62	566	19	1
Commercial Renewables	190	(5)	185	(82)	(6)
Other	133	57	81	43	76
Total	\$ 1,175	\$ 119	\$ 925	\$ (15)	\$ 69

During the years ended December 31, 2017, 2016 and 2015, Duke Energy received distributions from equity investments of \$13 million, \$31 million and \$104 million, respectively, which are included in Other assets within Cash Flows from Operating Activities on the Consolidated Statements of Cash Flows. During the year ended December 31, 2017, Duke Energy received distributions from equity investments of \$281 million, which are included within Cash Flows from Investing Activities on the Consolidated Statements of Cash Flows.

During the year ended December 31, 2017, the two months ended December 31, 2016, and the years ended October 31, 2016, and 2015, Piedmont received distributions from equity investments of \$4 million, \$1 million, \$26 million and \$25 million, respectively, which are included in Other assets within Cash Flows from Operating Activities and \$2 million, \$1 million, \$18 million and \$2 million, respectively, which are included within Cash Flows from Investing Activities on the Consolidated Statements of Cash Flows.

Significant investments in affiliates accounted for under the equity method are discussed below.

Electric Utilities and Infrastructure

Duke Energy owns a 50 percent interest in Duke-American Transmission Co. (DATC) and in Pioneer Transmission, LLC (Pioneer), which build, own and operate electric transmission facilities in North America.

Gas Utilities and Infrastructure

The table below outlines Duke Energy's ownership interests in natural gas pipeline companies and natural gas storage facilities.

Entity Name	Ownership Interest	Investment Amount (in millions)		
		December 31, 2017	December 31, 2016	
Pipeline Investments				
Atlantic Coast Pipeline, LLC ^(a)	47%	\$ 397	\$ 265	
Sabal Trail Transmission, LLC	7.5%	219	140	
Constitution Pipeline, LLC ^(a)	24%	81	82	
Cardinal Pipeline Company, LLC ^(b)	21.49%	11	16	
Storage Facilities				
Pine Needle LNG Company, LLC ^(b)	45%	13	16	
Hardy Storage Company, LLC ^(b)	50%	42	47	
Total Investments ^(c)		\$ 763	\$ 566	

(a) During the year ended December 31, 2017, Piedmont transferred its share of ownership interest in ACP and Constitution to a wholly owned subsidiary of Duke Energy at book value.

(b) Piedmont owns the Cardinal, Pine Needle and Hardy Storage investments.

(c) Duke Energy includes purchase accounting adjustments related to Piedmont.

In October 2017, Duke Energy entered into a guarantee agreement to support its share of the ACP revolving credit facility. See Note 7 for additional information. As a result of the financing, ACP returned capital of \$265 million to Duke Energy.

Piedmont sold its 15 percent membership interest in SouthStar on October 3, 2016, for \$160 million resulting in an after tax gain of \$81 million during the year ended October 31, 2016. Piedmont's Equity in Earnings in SouthStar was \$19 million for the years ended October 31, 2016, and 2015.

For regulatory matters and other information on the ACP, Sabal Trail and Constitution investments, see Notes 4 and 17.

Commercial Renewables

In 2016, Duke Energy sold its interest in three of the Catamount Sweetwater, LLC wind farm projects. Duke Energy has a 47 percent ownership interest in each of the two other Catamount Sweetwater, LLC wind farm projects and 50 percent interest in DS Cornerstone, LLC, which owns wind farm projects in the U.S.

Impairment of Equity Method Investments

Duke Energy evaluated its investment in Constitution for OTTI as of December 31, 2017. Our impairment assessment uses a discounted cash flow income approach, including consideration of the severity and duration of any decline in fair value of our investment in the project. Our key inputs involve significant management judgments and estimates, including projections of the project's cash flows, selection of a discount rate and probability weighting of potential outcomes of legal and regulatory proceedings. Based upon these estimates using information known as of December 31, 2017, the fair value of Duke Energy's investment in Constitution approximated its carrying value. As a result, Duke Energy did not recognize any impairment charge in the year ended December 31, 2017. However, due to the FERC's January 2018 ruling and the resulting increase in uncertainty, Duke Energy is evaluating the potential to recognize a pretax impairment charge on its investment in Constitution during the first quarter of 2018 of up to the current carrying amount of the investment, net of salvage value and any cash and working capital returned. For additional information on the Constitution investment, see Note 4.

During the year ended December 31, 2016, Duke Energy recorded an OTTI of certain wind project investments. The \$71 million pretax impairment was recorded within Equity in earnings (losses) of unconsolidated affiliates on Duke Energy's Consolidated Statements of Operations. The other-than-temporary decline in value of these investments was primarily attributable to a sustained decline in market pricing where the wind investments are located, projected net losses for the projects and a reduction in the projected cash distribution to the class of investment owned by Duke Energy.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Other

Duke Energy owns a 17.5 percent indirect interest in NMC, which owns and operates a methanol and MTBE business in Jubail, Saudi Arabia. Duke Energy's economic ownership interest decreased from 25 percent to 17.5

percent with the successful startup of NMC's polyacetal production facility in 2017. Duke Energy retains 25 percent of the board representation and voting rights of NMC. The investment in NMC is accounted for under the equity method of accounting.

13. RELATED PARTY TRANSACTIONS

The Subsidiary Registrants engage in related party transactions in accordance with the applicable state and federal commission regulations. Refer to the Consolidated Balance Sheets of the Subsidiary Registrants for balances due to or due from related parties. Material amounts related to transactions with related parties included in the Consolidated Statements of Operations and Comprehensive Income are presented in the following table.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Duke Energy Carolinas			
Corporate governance and shared service expenses ^(a)	\$ 858	\$ 831	\$ 914
Indemnification coverages ^(b)	23	22	24
JDA revenue ^(c)	49	38	51
JDA expense ^(c)	145	156	183
Intercompany natural gas purchases ^(d)	9	2	—
Progress Energy			
Corporate governance and shared service expenses ^(a)	\$ 736	\$ 710	\$ 712
Indemnification coverages ^(b)	38	35	38
JDA revenue ^(c)	145	156	183
JDA expense ^(c)	49	38	51
Intercompany natural gas purchases ^(d)	77	19	—
Duke Energy Progress			
Corporate governance and shared service expenses ^(a)	\$ 438	\$ 397	\$ 403
Indemnification coverages ^(b)	15	14	16
JDA revenue ^(c)	145	156	183
JDA expense ^(c)	49	38	51
Intercompany natural gas purchases ^(d)	77	19	—
Duke Energy Florida			
Corporate governance and shared service expenses ^(a)	\$ 298	\$ 313	\$ 309
Indemnification coverages ^(b)	23	21	22
Duke Energy Ohio			
Corporate governance and shared service expenses ^(a)	\$ 363	\$ 356	\$ 342
Indemnification coverages ^(b)	5	5	6
Duke Energy Indiana			
Corporate governance and shared service expenses ^(a)	\$ 370	\$ 366	\$ 349
Indemnification coverages ^(b)	8	8	9
Piedmont			
Corporate governance and shared service expenses ^(a)	\$ 50		
Indemnification coverages ^(b)	2		
Intercompany natural gas sales ^(d)	86		

(a) The Subsidiary Registrants are charged their proportionate share of corporate governance and other shared services costs, primarily related to human resources, employee benefits, information technology, legal and accounting fees, as well as other third-party costs. These amounts are primarily recorded in Operation, maintenance and other on the Consolidated Statements of Operations and Comprehensive Income.

(b) The Subsidiary Registrants incur expenses related to certain indemnification coverages through Bison, Duke Energy's wholly owned captive insurance subsidiary. These expenses are recorded in Operation, maintenance and other on the Consolidated Statements of Operations and Comprehensive Income.

(c) Duke Energy Carolinas and Duke Energy Progress participate in a JDA, which allows the collective dispatch of power plants between the service territories to reduce customer rates. Revenues from the sale of power and expenses from the purchase of power pursuant to the JDA are recorded in Operating Revenues and Fuel used in electric generation and purchased power, respectively, on the Consolidated Statements of Operations and Comprehensive Income.

(d) Piedmont provides long-term natural gas delivery service to certain Duke Energy Carolinas and Duke Energy Progress natural gas-fired generation facilities. Piedmont records the sales in Regulated natural gas revenues, and Duke Energy Carolinas and Duke Energy Progress record the related purchases in Fuel used in electric generation and purchased power on their respective Consolidated Statements of Operations and Comprehensive Income. The amounts are not eliminated in accordance with rate-based accounting regulations. For the two months ended December 31, 2016, and for sales made subsequent to the acquisition for the year ended October 31, 2016, Piedmont recorded \$14 million and \$7 million, respectively, of natural gas sales with Duke Energy. For sales made prior to the acquisition for the year ended October 31, 2016, and for the year ended October 31, 2015, Piedmont recorded \$74 million and \$83 million, respectively of natural gas sales with Duke Energy.

In addition to the amounts presented above, the Subsidiary Registrants have other affiliate transactions, including rental of office space, participation in a money pool arrangement, other operational transactions and their proportionate share of certain charged expenses. See Note 6 for more information regarding money pool. These transactions of the Subsidiary Registrants were not material for the years ended December 31, 2017, 2016 and 2015.

As discussed in Note 17, certain trade receivables have been sold by Duke Energy Ohio and Duke Energy Indiana to CRC, an affiliate formed by a subsidiary of Duke Energy. The proceeds obtained from the sales of receivables are largely cash but do include a subordinated note from CRC for a portion of the purchase price.

Refer to Note 2 for further information on the sale of the Midwest Generation Disposal Group.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Equity Method Investments

Piedmont has related party transactions as a customer of its equity method investments in natural gas storage and transportation facilities. The following table presents expenses that are included in Cost of natural gas on Piedmont's Consolidated Statements of Operations and Comprehensive Income.

(in millions)	Type of expense	Year Ended December 31,	Two Months Ended December 31,	Years Ended October 31,	
		2017	2016	2016	2015
Cardinal	Transportation Costs	\$ 8	\$ 2	\$ 9	\$ 9
Pine Needle	Natural Gas Storage Costs	8	2	11	11
Hardy Storage	Natural Gas Storage Costs	9	2	9	9
Total		\$ 25	\$ 6	\$ 29	\$ 29

Piedmont had accounts payable to its equity method investments of \$2 million at December 31, 2017, and 2016 related to these transactions. These amounts are included in Accounts payable on the Consolidated Balance Sheets.

Intercompany Income Taxes

Duke Energy and the Subsidiary Registrants file a consolidated federal income tax return and other state and jurisdictional returns. The Subsidiary Registrants have a tax sharing agreement with Duke Energy for the allocation of consolidated tax liabilities and benefits. Income taxes recorded represent amounts the Subsidiary Registrants would incur as separate C-Corporations. The following table includes the balance of intercompany income tax receivables and payables for the Subsidiary Registrants.

(in millions)	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
December 31, 2017							
Intercompany income tax receivable	\$ —	\$ 168	\$ —	\$ 44	\$ 22	\$ —	\$ 7
Intercompany income tax payable	44	—	21	—	—	35	—
December 31, 2016							
Intercompany income tax receivable	\$ 1	\$ —	\$ —	\$ 37	\$ —	\$ —	\$ —
Intercompany income tax payable	—	37	90	—	1	3	38

14. DERIVATIVES AND HEDGING

The Duke Energy Registrants use commodity and interest rate contracts to manage commodity price risk and interest rate risk. The primary use of commodity derivatives is to hedge the generation portfolio against changes in the prices of electricity and natural gas. Piedmont enters into natural gas supply contracts to provide diversification, reliability and natural gas cost benefits to its customers. Interest rate swaps are used to manage interest rate risk associated with borrowings.

All derivative instruments not identified as NPNS are recorded at fair value as assets or liabilities on the Consolidated Balance Sheets. Cash collateral related to derivative instruments executed under master netting arrangements is offset against the collateralized derivatives on the Consolidated Balance Sheets. The cash impacts of settled derivatives are recorded as operating activities on the Consolidated Statements of Cash Flows.

INTEREST RATE RISK

The Duke Energy Registrants are exposed to changes in interest rates as a result of their issuance or anticipated issuance of variable-rate and fixed-rate debt and commercial paper. Interest rate risk is managed by limiting variable-rate exposures to a percentage of total debt and by monitoring changes in interest rates. To manage risk associated with changes in interest rates, the Duke Energy Registrants may enter into interest rate swaps, U.S. Treasury lock agreements and other financial contracts. In anticipation of

certain fixed-rate debt issuances, a series of forward-starting interest rate swaps may be executed to lock in components of current market interest rates. These instruments are later terminated prior to or upon the issuance of the corresponding debt.

Cash Flow Hedges

For a derivative designated as hedging the exposure to variable cash flows of a future transaction, referred to as a cash flow hedge, the effective portion of the derivative's gain or loss is initially reported as a component of other comprehensive income and subsequently reclassified into earnings once the future transaction impacts earnings. Amounts for interest rate contracts are reclassified to earnings as interest expense over the term of the related debt. See the Consolidated Statements of Changes in Equity for gains and losses reclassified out of AOCI for the years ended December 31, 2017, and 2016. Duke Energy's interest rate derivatives designated as hedges include interest rate swaps used to hedge existing debt within the Commercial Renewables business.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
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Combined Notes to Consolidated Financial Statements – (Continued)

Undesignated Contracts

Undesignated contracts include contracts not designated as a hedge because they are accounted for under regulatory accounting and contracts that do not qualify for hedge accounting.

Duke Energy's interest rate swaps for its regulated operations employ regulatory accounting. With regulatory accounting, the mark-to-market gains or losses on the swaps are deferred as regulatory liabilities or regulatory assets, respectively. Regulatory assets and liabilities are amortized consistent with the

treatment of the related costs in the ratemaking process. The accrual of interest on the swaps is recorded as Interest Expense.

In August 2016, Duke Energy unwound \$1.4 billion of forward-starting interest rate swaps associated with the Piedmont acquisition financing described in Note 6. The swaps were considered undesignated as they did not qualify for hedge accounting. Losses on the swaps of \$190 million are included within Interest Expense on the Consolidated Statements of Operations for the year ended December 31, 2016. See Note 2 for additional information related to the Piedmont acquisition.

The following tables show notional amounts of outstanding derivatives related to interest rate risk.

(in millions)	December 31, 2017					
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio
Cash flow hedges ^(a)	\$ 660	\$ —	\$ —	\$ —	\$ —	\$ —
Undesignated contracts	927	400	500	250	250	27
Total notional amount	\$ 1,587	\$ 400	\$ 500	\$ 250	\$ 250	\$ 27

(in millions)	December 31, 2016					
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio
Cash flow hedges ^(a)	\$ 750	\$ —	\$ —	\$ —	\$ —	\$ —
Undesignated contracts	927	400	500	250	250	27
Total notional amount	\$ 1,677	\$ 400	\$ 500	\$ 250	\$ 250	\$ 27

(a) Duke Energy includes amounts related to consolidated VIEs of \$660 million and \$750 million at December 31, 2017, and 2016, respectively. During 2016, Duke Energy entered into interest rate swaps related to solar financing with an outstanding notional amount of \$300 million, including \$81 million of four-year swaps and \$219 million of 18-year swaps, at December 31, 2016. See note 6 for additional information related to the solar facilities financing.

COMMODITY PRICE RISK

The Duke Energy Registrants are exposed to the impact of changes in the prices of electricity purchased and sold in bulk power markets and coal and natural gas purchases, including Piedmont's natural gas supply contracts. Exposure to commodity price risk is influenced by a number of factors including the term of contracts, the liquidity of markets and delivery locations. For the Subsidiary Registrants, bulk power electricity and coal and natural gas

purchases flow through fuel adjustment clauses, formula based contracts or other cost sharing mechanisms. Differences between the costs included in rates and the incurred costs, including undesignated derivative contracts, are largely deferred as regulatory assets or regulatory liabilities. Piedmont policies allow for the use of financial instruments to hedge commodity price risks. The strategy and objective of these hedging programs are to use the financial instruments to reduce gas cost volatility for customers.

Volumes

The tables below include volumes of outstanding commodity derivatives. Amounts disclosed represent the absolute value of notional volumes of commodity contracts excluding NPNS. The Duke Energy Registrants have netted contractual amounts where offsetting purchase and sale contracts exist with identical delivery locations and times of delivery. Where all commodity positions are perfectly offset, no quantities are shown.

	December 31, 2017						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Indiana	Piedmont
Electricity (gigawatt-hours)	34	—	—	—	—	34	—
Natural gas (millions of dekatherms)	770	105	183	133	50	2	480

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
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Combined Notes to Consolidated Financial Statements – (Continued)

	December 31, 2016						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Indiana	Piedmont
Electricity (gigawatt-hours)	147	—	—	—	—	147	—
Natural gas (millions of dekatherms)	890	91	269	118	151	1	529

LOCATION AND FAIR VALUE OF DERIVATIVE ASSETS AND LIABILITIES RECOGNIZED IN THE CONSOLIDATED BALANCE SHEETS

The following tables show the fair value and balance sheet location of derivative instruments. Although derivatives subject to master netting arrangements are netted on the Consolidated Balance Sheets, the fair values presented below are shown gross and cash collateral on the derivatives has not been netted against the fair values shown.

Derivative Assets		December 31, 2017							
(in millions)		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Commodity Contracts									
<i>Not Designated as Hedging Instruments</i>									
Current		\$ 34	\$ 2	\$ 2	\$ 1	\$ 1	\$ 1	\$ 27	\$ 2
Noncurrent		1	—	1	1	—	—	—	—
Total Derivative Assets – Commodity Contracts		\$ 35	\$ 2	\$ 3	\$ 2	\$ 1	\$ 1	\$ 27	\$ 2
Interest Rate Contracts									
<i>Designated as Hedging Instruments</i>									
Current		\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Noncurrent		15	—	—	—	—	—	—	—
Total Derivative Assets – Interest Rate Contracts		\$ 16	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Total Derivative Assets		\$ 51	\$ 2	\$ 3	\$ 2	\$ 1	\$ 1	\$ 27	\$ 2

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Combined Notes to Consolidated Financial Statements – (Continued)

Derivative Liabilities								
December 31, 2017								
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Commodity Contracts								
<i>Not Designated as Hedging Instruments</i>								
Current	\$ 36	\$ 6	\$ 18	\$ 8	\$ 10	\$ —	\$ —	\$ 11
Noncurrent	146	4	10	4	—	—	—	131
Total Derivative Liabilities – Commodity Contracts	\$ 182	\$ 10	\$ 28	\$ 12	\$ 10	\$ —	\$ —	\$ 142
Interest Rate Contracts								
<i>Designated as Hedging Instruments</i>								
Current	\$ 29	\$ 25	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Noncurrent	6	—	—	—	—	—	—	—
<i>Not Designated as Hedging Instruments</i>								
Current	1	—	1	—	—	1	—	—
Noncurrent	12	—	7	6	2	4	—	—
Total Derivative Liabilities – Interest Rate Contracts	\$ 48	\$ 25	\$ 8	\$ 6	\$ 2	\$ 5	\$ —	\$ —
Total Derivative Liabilities	\$ 230	\$ 35	\$ 36	\$ 18	\$ 12	\$ 5	\$ —	\$ 142
Derivative Assets								
December 31, 2016								
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Commodity Contracts								
<i>Not Designated as Hedging Instruments</i>								
Current	\$ 108	\$ 23	\$ 61	\$ 35	\$ 26	\$ 4	\$ 16	\$ 3
Noncurrent	32	10	21	10	11	1	—	—
Total Derivative Assets – Commodity Contracts	\$ 140	\$ 33	\$ 82	\$ 45	\$ 37	\$ 5	\$ 16	\$ 3
Interest Rate Contracts								
<i>Designated as Hedging Instruments</i>								
Noncurrent	\$ 19	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
<i>Not Designated as Hedging Instruments</i>								
Current	3	—	3	1	2	—	—	—
Total Derivative Assets – Interest Rate Contracts	\$ 22	\$ —	\$ 3	\$ 1	\$ 2	\$ —	\$ —	\$ —
Total Derivative Assets	\$ 162	\$ 33	\$ 85	\$ 46	\$ 39	\$ 5	\$ 16	\$ 3
Derivative Liabilities								
December 31, 2016								
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Commodity Contracts								
<i>Not Designated as Hedging Instruments</i>								
Current	\$ 43	\$ —	\$ 12	\$ —	\$ 12	\$ —	\$ 2	\$ 35
Noncurrent	166	1	7	1	—	—	—	152
Total Derivative Liabilities – Commodity Contracts	\$ 209	\$ 1	\$ 19	\$ 1	\$ 12	\$ —	\$ 2	\$ 187
Interest Rate Contracts								
<i>Designated as Hedging Instruments</i>								
Current	\$ 8	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Noncurrent	8	—	—	—	—	—	—	—
<i>Not Designated as Hedging Instruments</i>								
Current	1	—	—	—	—	1	—	—
Noncurrent	26	15	6	6	—	5	—	—
Total Derivative Liabilities – Interest Rate Contracts	\$ 43	\$ 15	\$ 6	\$ 6	\$ —	\$ 6	\$ —	\$ —
Total Derivative Liabilities	\$ 252	\$ 16	\$ 25	\$ 7	\$ 12	\$ 6	\$ 2	\$ 187

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
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Combined Notes to Consolidated Financial Statements – (Continued)

OFFSETTING ASSETS AND LIABILITIES

The following tables present the line items on the Consolidated Balance Sheets where derivatives are reported. Substantially all of Duke Energy's outstanding derivative contracts are subject to enforceable master netting arrangements. The Gross amounts offset in the tables below show the effect of these netting arrangements on financial position and include collateral posted to offset the net position. The amounts shown are calculated by counterparty. Accounts receivable or accounts payable may also be available to offset exposures in the event of bankruptcy. These amounts are not included in the tables below.

Derivative Assets		December 31, 2017						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current								
Gross amounts recognized	\$ 35	\$ 2	\$ 2	\$ 1	\$ 1	\$ 1	\$ 27	\$ 2
Gross amounts offset	—	—	—	—	—	—	—	—
Net amounts presented in Current Assets: Other	\$ 35	\$ 2	\$ 2	\$ 1	\$ 1	\$ 1	\$ 27	\$ 2
Noncurrent								
Gross amounts recognized	\$ 16	\$ —	\$ 1	\$ 1	\$ —	\$ —	\$ —	\$ —
Gross amounts offset	—	—	—	—	—	—	—	—
Net amounts presented in Other Noncurrent Assets: Other	\$ 16	\$ —	\$ 1	\$ 1	\$ —	\$ —	\$ —	\$ —

Derivative Liabilities		December 31, 2017						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current								
Gross amounts recognized	\$ 66	\$ 31	\$ 19	\$ 8	\$ 10	\$ 1	\$ —	\$ 11
Gross amounts offset	(3)	(2)	(2)	(2)	—	—	—	—
Net amounts presented in Current Liabilities: Other	\$ 63	\$ 29	\$ 17	\$ 6	\$ 10	\$ 1	\$ —	\$ 11
Noncurrent								
Gross amounts recognized	\$ 164	\$ 4	\$ 17	\$ 10	\$ 2	\$ 4	\$ —	\$ 131
Gross amounts offset	(1)	—	(1)	(1)	—	—	—	—
Net amounts presented in Other Noncurrent Liabilities: Other	\$ 163	\$ 4	\$ 16	\$ 9	\$ 2	\$ 4	\$ —	\$ 131

Derivative Assets		December 31, 2016						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current								
Gross amounts recognized	\$ 111	\$ 23	\$ 64	\$ 36	\$ 28	\$ 4	\$ 16	\$ 3
Gross amounts offset	(11)	—	(11)	—	(11)	—	—	—
Net amounts presented in Current Assets: Other	\$ 100	\$ 23	\$ 53	\$ 36	\$ 17	\$ 4	\$ 16	\$ 3
Noncurrent								
Gross amounts recognized	\$ 51	\$ 10	\$ 21	\$ 10	\$ 11	\$ 1	\$ —	\$ —
Gross amounts offset	(2)	(1)	(1)	(1)	—	—	—	—
Net amounts presented in Other Noncurrent Assets: Other	\$ 49	\$ 9	\$ 20	\$ 9	\$ 11	\$ 1	\$ —	\$ —

Derivative Liabilities		December 31, 2016						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current								
Gross amounts recognized	\$ 52	\$ —	\$ 12	\$ —	\$ 12	\$ 1	\$ 2	\$ 35
Gross amounts offset	(11)	—	(11)	—	(11)	—	—	—
Net amounts presented in Current Liabilities: Other	\$ 41	\$ —	\$ 1	\$ —	\$ 1	\$ 1	\$ 2	\$ 35
Noncurrent								
Gross amounts recognized	\$ 200	\$ 16	\$ 13	\$ 7	\$ —	\$ 5	\$ —	\$ 152
Gross amounts offset	(2)	(1)	(1)	(1)	—	—	—	—
Net amounts presented in Other Noncurrent Liabilities: Other	\$ 198	\$ 15	\$ 12	\$ 6	\$ —	\$ 5	\$ —	\$ 152

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

OBJECTIVE CREDIT CONTINGENT FEATURES

Certain derivative contracts contain objective credit contingent features. These features include the requirement to post cash collateral or letters of credit if specific events occur, such as a credit rating downgrade below investment grade. The following tables show information with respect to derivative contracts that are in a net liability position and contain objective credit-risk-related payment provisions.

(in millions)	December 31, 2017				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Aggregate fair value of derivatives in a net liability position	\$ 59	\$ 35	\$ 25	\$ 15	\$ 10
Fair value of collateral already posted	—	—	—	—	—
Additional cash collateral or letters of credit in the event credit-risk-related contingent features were triggered	59	35	25	15	10

(in millions)	December 31, 2016				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Aggregate fair value of derivatives in a net liability position	\$ 34	\$ 16	\$ 18	\$ 6	\$ 12
Fair value of collateral already posted	—	—	—	—	—
Additional cash collateral or letters of credit in the event credit-risk-related contingent features were triggered	34	16	18	6	12

The Duke Energy Registrants have elected to offset cash collateral and fair values of derivatives. For amounts to be netted, the derivative and cash collateral must be executed with the same counterparty under the same master netting arrangement.

15. INVESTMENTS IN DEBT AND EQUITY SECURITIES

The Duke Energy Registrants classify their investments in debt and equity securities as either trading or available-for-sale.

TRADING SECURITIES

Piedmont's investments in debt and equity securities held in rabbi trusts associated with certain deferred compensation plans are classified as trading securities. The fair value of these investments was \$1 million and \$5 million as of December 31, 2017, and 2016, respectively.

AVAILABLE-FOR-SALE (AFS) SECURITIES

All other investments in debt and equity securities are classified as AFS.

Duke Energy's AFS securities are primarily comprised of investments held in (i) the nuclear decommissioning trust funds (NDTF) at Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, (ii) grantor trusts at Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana related to OPEB plans and (iii) Bison.

Duke Energy classifies all other investments in debt and equity securities as long term, unless otherwise noted.

Investment Trusts

The investments within the NDTF investments and the Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana grantor trusts (Investment Trusts) are managed by independent investment managers with discretion to buy, sell and invest pursuant to the objectives set forth by the trust agreements. The Duke Energy Registrants have limited oversight of the day-to-day management of these investments. As a result, the ability to hold

investments in unrealized loss positions is outside the control of the Duke Energy Registrants. Accordingly, all unrealized losses associated with debt and equity securities within the Investment Trusts are considered OTTI's and are recognized immediately.

Investments within the Investment Trusts generally qualify for regulatory accounting and accordingly realized and unrealized gains and losses are generally deferred as a regulatory asset or liability.

Substantially all amounts of the Duke Energy Registrants' gross unrealized holding losses as of December 31, 2017, and 2016, are considered OTTI's on investments within Investment Trusts that have been recognized immediately as a regulatory asset.

Other AFS Securities

Unrealized gains and losses on all other AFS securities are included in other comprehensive income until realized, unless it is determined the carrying value of an investment is other-than-temporarily impaired. If an OTTI exists, the unrealized loss is included in earnings based on the criteria discussed below.

The Duke Energy Registrants analyze all investment holdings each reporting period to determine whether a decline in fair value should be considered other-than-temporary. Criteria used to evaluate whether an impairment associated with equity securities is other-than-temporary includes, but is not limited to, (i) the length of time over which the market value has been lower than the cost basis of the investment, (ii) the percentage decline compared to the cost of the investment and (iii) management's intent and ability to retain its investment for a period of time sufficient to allow for any anticipated recovery in market value. If a decline in fair value is determined to be other-than-temporary, the investment is written down to its fair value through a charge to earnings.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

If the entity does not have an intent to sell a debt security and it is not more likely than not management will be required to sell the debt security before the recovery of its cost basis, the impairment write-down to fair value would be recorded as a component of other comprehensive income, except for when it is determined a credit loss exists. In determining whether a credit loss exists, management considers, among other things, (i) the length of time and the extent to which the fair value has been less than the amortized cost basis, (ii) changes in the financial condition of the issuer of the security, or in the case of an asset backed security, the financial condition of the underlying loan obligors, (iii) consideration of underlying collateral and guarantees of amounts by government

entities, (iv) ability of the issuer of the security to make scheduled interest or principal payments and (v) any changes to the rating of the security by rating agencies. If a credit loss exists, the amount of impairment write-down to fair value is split between credit loss and other factors. The amount related to credit loss is recognized in earnings. The amount related to other factors is recognized in other comprehensive income. There were no material credit losses as of December 31, 2017, and 2016.

Other Investments amounts are recorded in Other within Other Noncurrent Assets on the Consolidated Balance Sheets.

DUKE ENERGY

The following table presents the estimated fair value of investments in AFS securities.

(in millions)	December 31, 2017			December 31, 2016		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses ^(a)	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 115	\$ —	\$ —	\$ 111
Equity securities	2,805	27	4,914	2,092	54	4,106
Corporate debt securities	17	2	570	10	8	528
Municipal bonds	4	3	344	3	10	331
U.S. government bonds	11	7	1,027	10	8	984
Other debt securities	—	1	118	—	3	124
Total NDTF	\$ 2,837	\$ 40	\$ 7,088	\$ 2,115	\$ 83	\$ 6,184
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 15	\$ —	\$ —	\$ 25
Equity securities	59	—	123	38	—	104
Corporate debt securities	1	—	57	1	1	66
Municipal bonds	2	1	83	2	1	82
U.S. government bonds	—	—	41	—	1	51
Other debt securities	—	1	44	—	2	42
Total Other Investments	\$ 62	\$ 2	\$ 363	\$ 41	\$ 5	\$ 370
Total Investments	\$ 2,899	\$ 42	\$ 7,451	\$ 2,156	\$ 88	\$ 6,554

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2017
Due in one year or less	\$ 117
Due after one through five years	552
Due after five through 10 years	554
Due after 10 years	1,061
Total	\$ 2,284

Realized gains and losses, which were determined on a specific identification basis, from sales of AFS securities were as follows.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Realized gains	\$ 202	\$ 246	\$ 193
Realized losses	160	187	98

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

DUKE ENERGY CAROLINAS

The following table presents the estimated fair value of investments in AFS securities.

(in millions)	December 31, 2017			December 31, 2016		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses ^(a)	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 32	\$ —	\$ —	\$ 18
Equity securities	1,531	12	2,692	1,157	28	2,245
Corporate debt securities	9	2	359	5	6	354
Municipal bonds	—	1	60	1	2	67
U.S. government bonds	3	4	503	2	5	458
Other debt securities	—	1	112	—	3	116
Total NDTF	\$ 1,543	\$ 20	\$ 3,758	\$ 1,165	\$ 44	\$ 3,258
Other Investments						
Other debt securities	\$ —	\$ —	\$ —	\$ —	\$ 1	\$ 3
Total Other Investments	\$ —	\$ —	\$ —	\$ —	\$ 1	\$ 3
Total Investments	\$ 1,543	\$ 20	\$ 3,758	\$ 1,165	\$ 45	\$ 3,261

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2017
Due in one year or less	\$ 9
Due after one through five years	204
Due after five through 10 years	300
Due after 10 years	521
Total	\$ 1,034

Realized gains and losses, which were determined on a specific identification basis, from sales of AFS securities were as follows.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Realized gains	\$ 135	\$ 157	\$ 158
Realized losses	103	121	83

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

PROGRESS ENERGY

The following table presents the estimated fair value of investments in AFS securities.

(in millions)	December 31, 2017			December 31, 2016		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses ^(a)	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 83	\$ —	\$ —	\$ 93
Equity securities	1,274	15	2,222	935	26	1,861
Corporate debt securities	8	—	211	5	2	174
Municipal bonds	4	2	284	2	8	264
U.S. government bonds	8	3	524	8	3	526
Other debt securities	—	—	6	—	—	8
Total NDTF	\$ 1,294	\$ 20	\$ 3,330	\$ 950	\$ 39	\$ 2,926
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 12	\$ —	\$ —	\$ 21
Municipal bonds	2	—	47	2	—	44
Total Other Investments	\$ 2	\$ —	\$ 59	\$ 2	\$ —	\$ 65
Total Investments	\$ 1,296	\$ 20	\$ 3,389	\$ 952	\$ 39	\$ 2,991

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2017
Due in one year or less	\$ 94
Due after one through five years	301
Due after five through 10 years	203
Due after 10 years	474
Total	\$ 1,072

Realized gains and losses, which were determined on a specific identification basis, from sales of AFS securities were as follows.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Realized gains	\$ 65	\$ 84	\$ 33
Realized losses	56	64	13

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

DUKE ENERGY PROGRESS

The following table presents the estimated fair value of investments in AFS securities.

(in millions)	December 31, 2017			December 31, 2016		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses ^(a)	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 50	\$ —	\$ —	\$ 45
Equity securities	980	12	1,795	704	21	1,505
Corporate debt securities	6	—	149	4	1	120
Municipal bonds	4	2	283	2	8	263
U.S. government bonds	5	2	310	5	2	275
Other debt securities	—	—	4	—	—	5
Total NDTF	\$ 995	\$ 16	\$ 2,591	\$ 715	\$ 32	\$ 2,213
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 1	\$ —	\$ —	\$ 1
Total Other Investments	\$ —	\$ —	\$ 1	\$ —	\$ —	\$ 1
Total Investments	\$ 995	\$ 16	\$ 2,592	\$ 715	\$ 32	\$ 2,214

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2017
Due in one year or less	\$ 21
Due after one through five years	219
Due after five through 10 years	146
Due after 10 years	360
Total	\$ 746

Realized gains and losses, which were determined on a specific identification basis, from sales of AFS securities were as follows.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Realized gains	\$54	\$ 71	\$ 26
Realized losses	48	55	11

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

DUKE ENERGY FLORIDA

The following table presents the estimated fair value of investments in AFS securities.

(in millions)	December 31, 2017			December 31, 2016		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses ^(a)	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 33	\$ —	\$ —	\$ 48
Equity securities	294	3	427	231	5	356
Corporate debt securities	2	—	62	1	1	54
Municipal bonds	—	—	1	—	—	1
U.S. government bonds	3	1	214	3	1	251
Other debt securities	—	—	2	—	—	3
Total NDTF^(a)	\$ 299	\$ 4	\$ 739	\$ 235	\$ 7	\$ 713
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 1	\$ —	\$ —	\$ 4
Municipal bonds	2	—	47	2	—	44
Total Other Investments	\$ 2	\$ —	\$ 48	\$ 2	\$ —	\$ 48
Total Investments	\$ 301	\$ 4	\$ 787	\$ 237	\$ 7	\$ 761

(a) During the year ended December 31, 2017, Duke Energy Florida continued to receive reimbursements from the NDTF for costs related to ongoing decommissioning activity of the Crystal River Unit 3 nuclear plant.

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2017
Due in one year or less	\$ 73
Due after one through five years	82
Due after five through 10 years	57
Due after 10 years	114
Total	\$ 326

Realized gains and losses, which were determined on a specific identification basis, from sales of AFS securities were as follows.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Realized gains	\$11	\$ 13	\$ 7
Realized losses	8	9	2

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Combined Notes to Consolidated Financial Statements – (Continued)

DUKE ENERGY INDIANA

The following table presents the estimated fair value of investments in AFS securities.

(in millions)	December 31, 2017			December 31, 2016		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses ^(a)	Estimated Fair Value
Other Investments						
Equity securities	\$ 49	\$ —	\$ 97	\$ 33	\$ —	\$ 79
Corporate debt securities	—	—	3	—	—	2
Municipal bonds	—	1	28	—	1	28
U.S. government bonds	—	—	—	—	—	1
Total Other Investments	\$ 49	\$ 1	\$ 128	\$ 33	\$ 1	\$ 110
Total Investments	\$ 49	\$ 1	\$ 128	\$ 33	\$ 1	\$ 110

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2017
Due in one year or less	\$ 5
Due after one through five years	12
Due after five through 10 years	7
Due after 10 years	7
Total	\$31

Realized gains and losses, which were determined on a specific identification basis, from sales of AFS securities were insignificant for the years ended December 31, 2017, 2016 and 2015.

16. FAIR VALUE MEASUREMENTS

Fair value is the exchange price to sell an asset or transfer a liability in an orderly transaction between market participants at the measurement date. The fair value definition focuses on an exit price versus the acquisition cost. Fair value measurements use market data or assumptions market participants would use in pricing the asset or liability, including assumptions about risk and the risks inherent in the inputs to the valuation technique. These inputs may be readily observable, corroborated by market data, or generally unobservable. Valuation techniques maximize the use of observable inputs and minimize use of unobservable inputs. A midmarket pricing convention (the midpoint price between bid and ask prices) is permitted for use as a practical expedient.

Fair value measurements are classified in three levels based on the fair value hierarchy:

Level 1 – Unadjusted quoted prices in active markets for identical assets or liabilities that the reporting entity can access at the measurement date. An active market is one in which transactions for an asset or liability occur with sufficient frequency and volume to provide ongoing pricing information.

Level 2 – A fair value measurement utilizing inputs other than quoted prices included in Level 1 that are observable, either directly or indirectly, for an asset or liability. Inputs include (i) quoted prices for similar assets or liabilities in active markets, (ii) quoted prices for identical or similar assets or liabilities in markets that are not active, and (iii) inputs other than quoted market prices that

are observable for the asset or liability, such as interest rate curves and yield curves observable at commonly quoted intervals, volatilities and credit spreads. A Level 2 measurement cannot have more than an insignificant portion of its valuation based on unobservable inputs. Instruments in this category include non-exchange-traded derivatives, such as over-the-counter forwards, swaps and options; certain marketable debt securities; and financial instruments traded in less than active markets.

Level 3 – Any fair value measurement which includes unobservable inputs for more than an insignificant portion of the valuation. These inputs may be used with internally developed methodologies that result in management's best estimate of fair value. Level 3 measurements may include longer-term instruments that extend into periods in which observable inputs are not available.

Not Categorized – Certain investments are not categorized within the Fair Value hierarchy. These investments are measured based on the fair value of the underlying investments but may not be readily redeemable at that fair value.

Fair value accounting guidance permits entities to elect to measure certain financial instruments that are not required to be accounted for at fair value, such as equity method investments or the company's own debt, at fair value. The Duke Energy Registrants have not elected to record any of these items at fair value.

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

Transfers between levels represent assets or liabilities that were previously (i) categorized at a higher level for which the inputs to the estimate became less observable or (ii) classified at a lower level for which the inputs became more observable during the period. The Duke Energy Registrant's policy is to recognize transfers between levels of the fair value hierarchy at the end of the period. There were no transfers between levels during the years ended December 31, 2017, 2016 and 2015. In addition, for Piedmont, there were no transfers between levels during the two months ended December 31, 2016, and the years ended October 31, 2016, and 2015.

Valuation methods of the primary fair value measurements disclosed below are as follows.

Investments in equity securities

The majority of investments in equity securities are valued using Level 1 measurements. Investments in equity securities are typically valued at the closing price in the principal active market as of the last business day of the quarter. Principal active markets for equity prices include published exchanges such as the New York Stock Exchange (NYSE) and the NASDAQ Stock Market. Foreign equity prices are translated from their trading currency using the currency exchange rate in effect at the close of the principal active market. There was no after-hours market activity that was required to be reflected in the reported fair value measurements.

Investments in debt securities

Most investments in debt securities are valued using Level 2 measurements because the valuations use interest rate curves and credit spreads applied to the terms of the debt instrument (maturity and coupon interest rate) and consider the counterparty credit rating. If the market for a particular fixed-income security is relatively inactive or illiquid, the measurement is Level 3.

DUKE ENERGY

The following tables provide recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets. Derivative amounts in the table below for all Duke Energy Registrants exclude cash collateral, which is disclosed in Note 14. See Note 15 for additional information related to investments by major security type for the Duke Energy Registrants.

(in millions)	December 31, 2017				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized
NDTF equity securities	\$ 4,914	\$ 4,840	\$ —	\$ —	\$ 74
NDTF debt securities	2,174	635	1,539	—	—
Other AFS equity securities	123	123	—	—	—
Other trading and AFS debt securities	241	57	184	—	—
Derivative assets	51	3	20	28	—
Total assets	7,503	5,658	1,743	28	74
Derivative liabilities	(230)	(2)	(86)	(142)	—
Net assets (liabilities)	\$ 7,273	\$ 5,656	\$ 1,657	\$ (114)	\$ 74

Commodity derivatives

Commodity derivatives with clearinghouses are classified as Level 1. Other commodity derivatives, including Piedmont's natural gas supply contracts, are primarily valued using internally developed discounted cash flow models that incorporate forward price, adjustments for liquidity (bid-ask spread) and credit or non-performance risk (after reflecting credit enhancements such as collateral) and are discounted to present value. Pricing inputs are derived from published exchange transaction prices and other observable data sources. In the absence of an active market, the last available price may be used. If forward price curves are not observable for the full term of the contract and the unobservable period had more than an insignificant impact on the valuation, the commodity derivative is classified as Level 3. In isolation, increases (decreases) in natural gas forward prices result in favorable (unfavorable) fair value adjustments for gas purchase contracts; and increases (decreases) in electricity forward prices result in unfavorable (favorable) fair value adjustments for electricity sales contracts. Duke Energy regularly evaluates and validates pricing inputs used to estimate the fair value of natural gas commodity contracts by a market participant price verification procedure. This procedure provides a comparison of internal forward commodity curves to market participant generated curves.

Interest rate derivatives

Most over-the-counter interest rate contract derivatives are valued using financial models that utilize observable inputs for similar instruments and are classified as Level 2. Inputs include forward interest rate curves, notional amounts, interest rates and credit quality of the counterparties.

Other fair value considerations

See Note 11 for a discussion of the valuation of goodwill and intangible assets. See Note 2 related to the acquisition of Piedmont in 2016 and the purchase of NCEMPA's ownership interests in certain generating assets in 2015.

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	December 31, 2016				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized
NDTF equity securities	\$ 4,106	\$ 4,029	\$ —	\$ —	\$ 77
NDTF debt securities	2,078	632	1,446	—	—
Other trading and AFS equity securities	104	104	—	—	—
Other trading and AFS debt securities	266	75	186	5	—
Derivative assets	162	5	136	21	—
Total assets	6,716	4,845	1,768	26	77
Derivative liabilities	(252)	(2)	(63)	(187)	—
Net assets	\$ 6,464	\$ 4,843	\$ 1,705	\$ (161)	\$ 77

The following tables provide reconciliations of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements. Amounts included in earnings for derivatives are primarily included in Cost of natural gas on the Duke Energy Registrants' Consolidated Statements of Operations and Comprehensive Income. Amounts included in changes of net assets on the Duke Energy Registrants' Consolidated Balance Sheets are included in regulatory assets or liabilities. All derivative assets and liabilities are presented on a net basis.

(in millions)	December 31, 2017			December 31, 2016		
	Investments	Derivatives (net)	Total	Investments	Derivatives (net)	Total
Balance at beginning of period	\$ 5	\$ (166)	\$ (161)	\$ 5	\$ 10	\$ 15
Total pretax realized or unrealized gains included in comprehensive income	1	—	1	—	—	—
Derivative liability resulting from the acquisition of Piedmont	—	—	—	—	(187)	(187)
Purchases, sales, issuances and settlements:						
Purchases	—	55	55	—	33	33
Sales	(6)	—	(6)	—	—	—
Settlements	—	(47)	(47)	—	(28)	(28)
Total gains included on the Consolidated Balance Sheet	—	44	44	—	6	6
Balance at end of period	\$ —	\$ (114)	\$ (114)	\$ 5	\$ (166)	\$ (161)

DUKE ENERGY CAROLINAS

The following tables provide recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2017				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized
NDTF equity securities	\$ 2,692	\$ 2,618	\$ —	\$ —	\$ 74
NDTF debt securities	1,066	204	862	—	—
Derivative assets	2	—	2	—	—
Total assets	3,760	2,822	864	—	74
Derivative liabilities	(35)	(1)	(34)	—	—
Net assets	\$ 3,725	\$ 2,821	\$ 830	\$ —	\$ 74

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	December 31, 2016				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized
NDTF equity securities	\$ 2,245	\$ 2,168	\$ —	\$ —	\$ 77
NDTF debt securities	1,013	178	835	—	—
Other AFS debt securities	3	—	—	3	—
Derivative assets	33	—	33	—	—
Total assets	3,294	2,346	868	3	77
Derivative liabilities	(16)	—	(16)	—	—
Net assets	\$ 3,278	\$ 2,346	\$ 852	\$ 3	\$ 77

The following table provides reconciliations of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Investments	
	Years Ended December 31,	
	2017	2016
Balance at beginning of period	\$ 3	\$ 3
Total pretax realized or unrealized gains included in comprehensive income	1	—
Purchases, sales, issuances and settlements:		
Sales	(4)	—
Balance at end of period	\$ —	\$ 3

PROGRESS ENERGY

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2017			December 31, 2016		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 2
NDTF equity securities	\$ 2,222	\$ 2,222	\$ —	\$ 1,861	\$ 1,861	\$ —
NDTF debt securities	1,108	431	677	1,065	454	611
Other AFS debt securities	59	12	47	65	21	44
Derivative assets	3	1	2	85	—	85
Total assets	3,392	2,666	726	3,076	2,336	740
Derivative liabilities	(36)	(1)	(35)	(25)	—	(25)
Net assets	\$ 3,356	\$ 2,665	\$ 691	\$ 3,051	\$ 2,336	\$ 715

DUKE ENERGY PROGRESS

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2017			December 31, 2016		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 2
NDTF equity securities	\$ 1,795	\$ 1,795	\$ —	\$ 1,505	\$ 1,505	\$ —
NDTF debt securities	796	243	553	708	207	501
Other AFS debt securities	1	1	—	1	1	—
Derivative assets	2	1	1	46	—	46
Total assets	2,594	2,040	554	2,260	1,713	547
Derivative liabilities	(18)	(1)	(17)	(7)	—	(7)
Net assets	\$ 2,576	\$ 2,039	\$ 537	\$ 2,253	\$ 1,713	\$ 540

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
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Combined Notes to Consolidated Financial Statements – (Continued)

DUKE ENERGY FLORIDA

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2017			December 31, 2016		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 2
NDTF equity securities	\$ 427	\$ 427	\$ —	\$ 356	\$ 356	\$ —
NDTF debt securities	312	188	124	357	247	110
Other AFS debt securities	48	1	47	48	4	44
Derivative assets	1	—	1	39	—	39
Total assets	788	616	172	800	607	193
Derivative liabilities	(12)	—	(12)	(12)	—	(12)
Net assets	\$ 776	\$ 616	\$ 160	\$ 788	\$ 607	\$ 181

DUKE ENERGY OHIO

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2017			December 31, 2016		
	Total Fair Value	Level 2	Level 3	Total Fair Value	Level 2	Level 3
Derivative assets	\$ 1	\$ —	\$ 1	\$ 5	\$ —	\$ 5
Derivative liabilities	(5)	(5)	—	(6)	(6)	—
Net (liabilities) assets	\$ (4)	\$ (5)	\$ 1	\$ (1)	\$ (6)	\$ 5

The following table provides a reconciliation of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Derivatives (net)	
	Years Ended December 31,	
	2017	2016
Balance at beginning of period	\$ 5	\$ 3
Purchases, sales, issuances and settlements:		
Purchases	3	5
Settlements	(4)	(5)
Total gains included on the Consolidated Balance Sheet	(3)	2
Balance at end of period	\$ 1	\$ 5

DUKE ENERGY INDIANA

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2017				December 31, 2016			
	Total Fair Value	Level 1	Level 2	Level 3	Total Fair Value	Level 1	Level 2	Level 3
Other AFS equity securities	\$ 97	\$ 97	\$ —	\$ —	\$ 79	\$ 79	\$ —	\$ —
Other AFS debt securities	31	—	31	—	31	—	31	—
Derivative assets	27	—	—	27	16	—	—	16
Total assets	155	97	31	27	126	79	31	16
Derivative liabilities	—	—	—	—	(2)	(2)	—	—
Net assets	\$ 155	\$ 97	\$ 31	\$ 27	\$ 124	\$ 77	\$ 31	\$ 16

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Combined Notes to Consolidated Financial Statements – (Continued)

The following table provides a reconciliation of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Derivatives (net)	
	Years Ended December 31,	
	2017	2016
Balance at beginning of period	\$ 16	\$ 7
Purchases, sales, issuances and settlements:		
Purchases	52	29
Settlements	(43)	(24)
Total gains included on the Consolidated Balance Sheet	2	4
Balance at end of period	\$ 27	\$ 16

PIEDMONT

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2017			December 31, 2016		
	Total Fair Value	Level 1	Level 3	Total Fair Value	Level 1	Level 3
Other trading equity securities	\$ —	\$ —	\$ —	\$ 4	\$ 4	\$ —
Other trading debt securities	1	1	—	1	1	—
Derivative assets	2	2	—	3	3	—
Total assets	3	3	—	8	8	—
Derivative liabilities	(142)	—	(142)	(187)	—	(187)
Net assets	\$ (139)	\$ 3	\$ (142)	\$ (179)	\$ 8	\$ (187)

The following table provides a reconciliation of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Derivatives (net)		
	Year Ended	Two Months Ended	Year Ended
	December 31, 2017	December 31, 2016	October 31, 2016
Balance at beginning of period	\$ (187)	\$ (188)	\$ —
Total gains (losses) and settlements	45	1	(188)
Balance at end of period	\$ (142)	\$ (187)	\$ (188)

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

QUANTITATIVE INFORMATION ABOUT UNOBSERVABLE INPUTS

The following tables include quantitative information about the Duke Energy Registrants' derivatives classified as Level 3.

December 31, 2017				
Investment Type	Fair Value (in millions)	Valuation Technique	Unobservable Input	Range
Duke Energy Ohio				
FTRs	\$ 1	RTO auction pricing	FTR price – per MWh	\$ 0.07 — \$ 1.41
Duke Energy Indiana				
FTRs	27	RTO auction pricing	FTR price – per MWh	(0.77) — 7.44
Piedmont				
Natural gas contracts	(142)	Discounted cash flow	Forward natural gas curves - price per MMBtu	2.10 — 2.88
Duke Energy				
Total Level 3 derivatives	\$ (114)			

December 31, 2016				
Investment Type	Fair Value (in millions)	Valuation Technique	Unobservable Input	Range
Duke Energy Ohio				
FTRs	\$ 5	RTO auction pricing	FTR price – per MWh	\$ 0.77 — 3.52
Duke Energy Indiana				
FTRs	16	RTO auction pricing	FTR price – per MWh	(0.83) — 9.32
Piedmont				
Natural gas contracts	(187)	Discounted cash flow	Forward natural gas curves - price per MMBtu	2.31 — 4.18
Duke Energy				
Total Level 3 derivatives	\$ (166)			

OTHER FAIR VALUE DISCLOSURES

The fair value and book value of long-term debt, including current maturities, is summarized in the following table. Estimates determined are not necessarily indicative of amounts that could have been settled in current markets. Fair value of long-term debt uses Level 2 measurements.

(in millions)	December 31, 2017		December 31, 2016	
	Book Value	Fair Value	Book Value	Fair Value
Duke Energy	\$ 52,279	\$ 55,331	\$ 47,895	\$ 49,161
Duke Energy Carolinas	10,103	11,372	9,603	10,494
Progress Energy	17,837	20,000	17,541	19,107
Duke Energy Progress	7,357	7,992	7,011	7,357
Duke Energy Florida	7,095	7,953	6,125	6,728
Duke Energy Ohio	2,067	2,249	1,884	2,020
Duke Energy Indiana	3,783	4,464	3,786	4,260
Piedmont	2,037	2,209	1,821	1,933

At both December 31, 2017, and December 31, 2016, fair value of cash and cash equivalents, accounts and notes receivable, accounts payable, notes payable and commercial paper and nonrecourse notes payable of VIEs are not materially different from their carrying amounts because of the short-term nature of these instruments and/or because the stated rates approximate market rates.

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Combined Notes to Consolidated Financial Statements – (Continued)

17. VARIABLE INTEREST ENTITIES

A VIE is an entity that is evaluated for consolidation using more than a simple analysis of voting control. The analysis to determine whether an entity is a VIE considers contracts with an entity, credit support for an entity, the adequacy of the equity investment of an entity and the relationship of voting power to the amount of equity invested in an entity. This analysis is performed either upon the creation of a legal entity or upon the occurrence of an event requiring reevaluation, such as a significant change in an entity's assets or activities. A qualitative analysis of control determines the party that consolidates a VIE. This assessment is based on (i) what party has the power to direct the activities of the VIE that most significantly impact its economic performance and (ii) what party has rights to receive benefits or is obligated to absorb losses that could potentially be significant to the VIE. The analysis of the party that consolidates a VIE is a continual reassessment.

CONSOLIDATED VIEs

The obligations of these VIEs discussed in the following paragraphs are nonrecourse to the Duke Energy Registrants. The registrants have no requirement to provide liquidity to, purchase assets of or guarantee performance of these VIEs unless noted in the following paragraphs.

No financial support was provided to any of the consolidated VIEs during the years ended December 31, 2017, 2016 and 2015, or is expected to be provided in the future, that was not previously contractually required.

Receivables Financing – DERF/DEPR/DEFR

Duke Energy Receivables Finance Company, LLC (DERF), Duke Energy Progress Receivables, LLC (DEPR) and Duke Energy Florida Receivables, LLC (DEFR) are bankruptcy remote, special purpose subsidiaries of Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, respectively. DERF, DEPR and DEFR are wholly owned limited liability companies with separate legal existence from their parent companies and their assets are not generally available to creditors of their parent companies. On a revolving basis, DERF, DEPR and DEFR buy certain accounts receivable arising from the sale of electricity and related services from their parent companies.

Receivables Financing – Credit Facilities

The following table outlines amounts and expiration dates of the credit facilities described above.

	Duke Energy			
	Duke Energy Carolinas		Duke Energy Progress	Duke Energy Florida
	CRC	DERF	DEPR	DEFR
Expiration date	December 2020	December 2020	February 2019	April 2019
Credit facility amount (in millions)	\$ 325	\$ 450	\$ 300	\$ 225
Amounts borrowed at December 31, 2017	325	450	300	225
Amounts borrowed at December 31, 2016	325	425	300	225

DERF, DEPR and DEFR borrow amounts under credit facilities to buy these receivables. Borrowing availability from the credit facilities is limited to the amount of qualified receivables purchased. The sole source of funds to satisfy the related debt obligations is cash collections from the receivables. Amounts borrowed under the credit facilities are reflected on the Consolidated Balance Sheets as Long-Term Debt.

The most significant activity that impacts the economic performance of DERF, DEPR and DEFR are the decisions made to manage delinquent receivables. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida consolidate DERF, DEPR and DEFR, respectively, as they make those decisions.

Receivables Financing – CRC

CRC is a bankruptcy remote, special purpose entity indirectly owned by Duke Energy. On a revolving basis, CRC buys certain accounts receivable arising from the sale of electricity, natural gas and related services from Duke Energy Ohio and Duke Energy Indiana. CRC borrows amounts under a credit facility to buy the receivables from Duke Energy Ohio and Duke Energy Indiana. Borrowing availability from the credit facility is limited to the amount of qualified receivables sold to CRC. The sole source of funds to satisfy the related debt obligation is cash collections from the receivables. Amounts borrowed under the credit facility are reflected on Duke Energy's Consolidated Balance Sheets as Long-Term Debt.

The proceeds Duke Energy Ohio and Duke Energy Indiana receive from the sale of receivables to CRC are typically 75 percent cash and 25 percent in the form of a subordinated note from CRC. The subordinated note is a retained interest in the receivables sold. Depending on collection experience, additional equity infusions to CRC may be required by Duke Energy to maintain a minimum equity balance of \$3 million.

CRC is considered a VIE because (i) equity capitalization is insufficient to support its operations, (ii) power to direct the activities that most significantly impact the economic performance of the entity are not performed by the equity holder and (iii) deficiencies in net worth of CRC are funded by Duke Energy. The most significant activities that impact the economic performance of CRC are decisions made to manage delinquent receivables. Duke Energy consolidates CRC as it makes these decisions. Neither Duke Energy Ohio nor Duke Energy Indiana consolidate CRC.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Nuclear Asset-Recovery Bonds – DEFPF

Duke Energy Florida Project Finance, LLC (DEFPF) is a bankruptcy remote, wholly owned special purpose subsidiary of Duke Energy Florida. DEFPF was formed in 2016 for the sole purpose of issuing nuclear asset-recovery bonds to finance Duke Energy Florida's unrecovered regulatory asset related to Crystal River Unit 3.

In June 2016, DEFPF issued \$1,294 million of senior secured bonds and used the proceeds to acquire nuclear asset-recovery property from Duke Energy Florida. The nuclear asset-recovery property acquired includes the right to impose, bill, collect and adjust a non-bypassable nuclear asset-recovery charge from all Duke Energy Florida retail customers until the bonds are paid in full and all financing costs have been recovered. The nuclear asset-recovery bonds are secured by the nuclear asset-recovery property and cash collections from the nuclear asset-recovery charges are the sole source of funds to satisfy the debt obligation. The bondholders have no recourse to Duke Energy Florida. For additional information see Notes 4 and 6.

DEFPF is considered a VIE primarily because the equity capitalization is insufficient to support its operations. Duke Energy Florida has the power to direct the significant activities of the VIE as described above and therefore Duke Energy Florida is considered the primary beneficiary and consolidates DEFPF.

The following table summarizes the impact of DEFPF on Duke Energy Florida's Consolidated Balance Sheets.

(in millions)	December 31, 2017	December 31, 2016
Receivables of VIEs	\$ 4	\$ 6
Regulatory Assets: Current	51	50
Current Assets: Other	40	53
Other Noncurrent Assets: Regulatory assets	1,091	1,142
Current Liabilities: Other	10	17
Current maturities of long-term debt	53	62
Long-Term Debt	1,164	1,217

Commercial Renewables

Certain of Duke Energy's renewable energy facilities are VIEs due to Duke Energy issuing guarantees for debt service and operations and maintenance reserves in support of debt financings. Assets are restricted and cannot be pledged as collateral or sold to third parties without prior approval of debt holders. The activities that most significantly impact the economic performance of these renewable energy facilities were decisions associated with siting, negotiating PPAs, engineering, procurement and construction and decisions associated with ongoing operations and maintenance-related activities. Duke Energy consolidates the entities as it is responsible for all of these decisions.

The table below presents material balances reported on Duke Energy's Consolidated Balance Sheets related to renewables VIEs.

(in millions)	December 31, 2017	December 31, 2016
Current Assets: Other	\$ 174	\$ 223
Property, plant and equipment, cost	3,923	3,419
Accumulated depreciation and amortization	(591)	(453)
Current maturities of long-term debt	170	198
Long-Term Debt	1,700	1,097
Other Noncurrent Liabilities: Deferred income taxes	(148)	275
Other Noncurrent Liabilities: Other	241	252

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

NON-CONSOLIDATED VIEs

The following tables summarize the impact of non-consolidated VIEs on the Consolidated Balance Sheets.

(in millions)	December 31, 2017					
	Duke Energy				Duke Energy Ohio	Duke Energy Indiana
	Pipeline Investments	Commercial Renewables	Other VIEs ^(a)	Total		
Receivables from affiliated companies	\$ —	\$ —	\$ —	\$ —	\$ 87	\$ 106
Investments in equity method unconsolidated affiliates	697	180	42	919	—	—
Other noncurrent assets	17	—	—	17	—	—
Total assets	\$ 714	\$ 180	\$ 42	\$ 936	\$ 87	\$ 106
Taxes accrued	(29)	—	—	(29)	—	—
Other current liabilities	—	—	4	4	—	—
Deferred income taxes	42	—	—	42	—	—
Other noncurrent liabilities	—	—	12	12	—	—
Total liabilities	\$ 13	\$ —	\$ 16	\$ 29	\$ —	\$ —
Net assets	\$ 701	\$ 180	\$ 26	\$ 907	\$ 87	\$ 106

(a) Duke Energy holds a 50 percent equity interest in Duke-American Transmission Company, LLC (DATC). As of December 31, 2016, DATC was considered a VIE due to having insufficient equity to finance its own activities without subordinated financial support. However, DATC is no longer considered a VIE based on sufficient equity to finance its own activities, and, therefore, is no longer considered a VIE as of December 31, 2017. Duke Energy's investment in DATC was \$46 million at December 31, 2017.

(in millions)	December 31, 2016						
	Duke Energy				Duke Energy Ohio	Duke Energy Indiana	Piedmont ^(a)
	Pipeline Investments	Commercial Renewables	Other	Total			
Receivables from affiliated companies	\$ —	\$ —	\$ —	\$ —	\$ 82	\$ 101	\$ —
Investments in equity method unconsolidated affiliates	487	174	90	751	—	—	139
Other noncurrent assets	12	—	—	12	—	—	—
Total assets	\$ 499	\$ 174	\$ 90	\$ 763	\$ 82	\$ 101	\$ 139
Other current liabilities	—	—	3	3	—	—	—
Other noncurrent liabilities	—	—	13	13	—	—	4
Total liabilities	\$ —	\$ —	\$ 16	\$ 16	\$ —	\$ —	\$ 4
Net assets	\$ 499	\$ 174	\$ 74	\$ 747	\$ 82	\$ 101	\$ 135

(a) In April 2017, Piedmont transferred its non-consolidated VIE investments to a wholly owned subsidiary of Duke Energy. See Note 12 and the "Pipeline Investments" section below for additional detail.

The Duke Energy Registrants are not aware of any situations where the maximum exposure to loss significantly exceeds the carrying values shown above except for the power purchase agreement with OVEC, which is discussed below, and various guarantees, some of which are reflected in the table above as Other noncurrent liabilities. For more information on various guarantees, refer to Note 7.

Pipeline Investments

Duke Energy has investments in various joint ventures with pipeline projects currently under construction. These entities are considered VIEs due to having insufficient equity to finance their own activities without subordinated financial support. Duke Energy does not have the power to direct the activities that most significantly impact the economic performance, the obligation to absorb losses or the right to receive benefits of these VIEs and therefore does not consolidate these entities.

The table below presents Duke Energy's ownership interest and investment balance in in these joint ventures.

Entity Name	Ownership Interest	Investment Amount (in millions)	
		December 31, 2017	December 31, 2016
ACP	47%	\$ 397	\$ 265
Sabal Trail	7.5%	219	140
Constitution	24%	81	82
Total		\$ 697	\$ 487

Commercial Renewables

Duke Energy has investments in various renewable energy project entities. Some of these entities are VIEs due to Duke Energy issuing guarantees for debt service and operations and maintenance reserves in support of debt financings. Duke Energy does not consolidate these VIEs because power to direct and control key activities is shared jointly by Duke Energy and other owners.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Other VIEs

Duke Energy holds a 50 percent equity interest in Pioneer. Pioneer is considered a VIE due to having insufficient equity to finance their own activities without subordinated financial support. The activities that most significantly impact Pioneer's economic performance are decisions related to the development of new transmission facilities. The power to direct these activities is jointly and equally shared by Duke Energy and the other joint venture partner, American Electric Power, therefore Duke Energy does not consolidate Pioneer.

OVEC

Duke Energy Ohio's 9 percent ownership interest in OVEC is considered a non-consolidated VIE due to having insufficient equity to finance their activities without subordinated financial support. As a counterparty to an inter-company power agreement (ICPA), Duke Energy Ohio has a contractual arrangement to buy power from OVEC's power plants through June 2040 commensurate with its power participation ratio, which is equivalent to Duke Energy Ohio's ownership interest. Costs, including fuel, operating expenses, fixed costs, debt amortization, and interest expense are allocated to counterparties to the ICPA based on their power participation ratio. The value of the ICPA is subject to variability due to fluctuation in power prices and changes in OVEC's cost of business, including costs associated with its 2,256 MW of coal-fired generation capacity. Deterioration in the credit quality, or bankruptcy of one or more parties to the ICPA could increase the costs of OVEC. In addition, certain proposed environmental rulemaking could result in future increased cost allocations.

Key assumptions used in estimating fair value are detailed in the following table.

	Duke Energy Ohio		Duke Energy Indiana	
	2017	2016	2017	2016
Anticipated credit loss ratio	0.5%	0.5%	0.3%	0.3%
Discount rate	2.1%	1.5%	2.1%	1.5%
Receivable turnover rate	13.5%	13.3%	10.7%	10.6%

The following table shows the gross and net receivables sold.

(in millions)	Duke Energy Ohio		Duke Energy Indiana	
	2017	2016	2017	2016
Receivables sold	\$ 273	\$ 267	\$ 312	\$ 306
Less: Retained interests	87	82	106	101
Net receivables sold	\$ 186	\$ 185	\$ 206	\$ 205

The following table shows sales and cash flows related to receivables sold.

(in millions)	Duke Energy Ohio			Duke Energy Indiana		
	Years Ended December 31,			Years Ended December 31,		
	2017	2016	2015	2017	2016	2015
Sales						
Receivables sold	\$1,879	\$1,926	\$1,963	\$2,711	\$2,635	\$2,627
Loss recognized on sale	10	9	9	12	11	11
Cash Flows						
Cash proceeds from receivables sold	1,865	1,882	1,995	2,694	2,583	2,670
Collection fees received	1	1	1	1	1	1
Return received on retained interests	3	2	3	7	5	5

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Cash flows from the sales of receivables are reflected within Cash Flows From Operating Activities on Duke Energy Ohio's and Duke Energy Indiana's Consolidated Statements of Cash Flows.

Collection fees received in connection with servicing transferred accounts receivable are included in Operation, maintenance and other on Duke Energy Ohio's and Duke Energy Indiana's Consolidated Statements of Operations and Comprehensive Income. The loss recognized on sales of receivables is

calculated monthly by multiplying receivables sold during the month by the required discount. The required discount is derived monthly utilizing a three-year weighted average formula that considers charge-off history, late charge history and turnover history on the sold receivables, as well as a component for the time value of money. The discount rate, or component for the time value of money, is the prior month-end LIBOR plus a fixed rate of 1.00 percent.

18. COMMON STOCK

Basic Earnings Per Share (EPS) is computed by dividing net income attributable to Duke Energy common stockholders, as adjusted for distributed and undistributed earnings allocated to participating securities, by the weighted average number of common shares outstanding during the period. Diluted EPS is computed by dividing net income attributable to Duke Energy common stockholders, as adjusted for distributed and undistributed earnings allocated to participating securities, by the diluted weighted average number of common shares outstanding during the period. Diluted EPS reflects the potential dilution that could occur if securities or other agreements to issue common shares, such

as stock options and equity forward sale agreements, were exercised or settled. Duke Energy's participating securities are restricted stock units that are entitled to dividends declared on Duke Energy common stock during the restricted stock unit's vesting periods.

The following table presents Duke Energy's basic and diluted EPS calculations and reconciles the weighted average number of common stock outstanding to the diluted weighted average number of common stock outstanding.

(in millions, except per share amounts)	Years Ended December 31,		
	2017	2016	2015
Income from continuing operations attributable to Duke Energy common stockholders excluding impact of participating securities	\$3,059	\$2,567	\$2,640
Weighted average shares outstanding – basic	700	691	694
Weighted average shares outstanding – diluted	700	691	694
Earnings per share from continuing operations attributable to Duke Energy common stockholders			
Basic	\$ 4.37	\$ 3.71	\$ 3.80
Diluted	\$ 4.37	\$ 3.71	\$ 3.80
Potentially dilutive items excluded from the calculation ^(a)	2	2	2
Dividends declared per common share	\$ 3.49	\$ 3.36	\$ 3.24

(a) Performance stock awards were not included in the dilutive securities calculation because the performance measures related to the awards had not been met.

Equity Distribution Agreement

On February 20, 2018, Duke Energy filed a prospectus supplement and executed an Equity Distribution Agreement (the EDA) under which it may sell up to \$1 billion of its common stock through an at-the-market offering program, including an equity forward sales component. The EDA was entered into with Wells Fargo Securities, LLC, Citigroup Global Markets Inc., and J.P. Morgan Securities LLC (the Agents). Under the terms of the EDA, Duke Energy may issue and sell, through either of the Agents, shares of common stock during the period ending September 23, 2019.

In addition to the issuance and sales of shares by Duke Energy through the Agents, Duke Energy may enter into Equity Forward Agreements with affiliates of the Agents as Forward Purchasers. There were no transactions under the EDA from the time of execution of the EDA to the filing of this document.

Stock Issuance

In March 2016, Duke Energy marketed an equity offering of 10.6 million shares of common stock. In lieu of issuing equity at the time of the offering, Duke Energy entered into Equity Forwards with Barclays. The Equity Forwards required Duke Energy to either physically settle the transactions by issuing 10.6 million shares, or net settle in whole or in part through the delivery or receipt of cash or shares.

On October 5, 2016, following the close of the Piedmont acquisition, Duke Energy physically settled the Equity Forwards in full by delivering 10.6 million shares of common stock in exchange for net cash proceeds of approximately

\$723 million. The net proceeds were used to finance a portion of the Piedmont acquisition. As a result of the acquisition, all of Piedmont's issued and outstanding stock became the issued and outstanding shares of a wholly owned subsidiary of Duke Energy. See Note 2 for additional information related to the Piedmont acquisition.

Accelerated Stock Repurchase Program

On April 6, 2015, Duke Energy entered into agreements with each of Goldman, Sachs & Co. and JPMorgan Chase Bank, National Association (the Dealers) to repurchase a total of \$1.5 billion of Duke Energy common stock under an accelerated stock repurchase program (the ASR). Duke Energy made payments of \$750 million to each of the Dealers and was delivered 16.6 million shares, with a total fair value of \$1.275 billion, which represented approximately 85 percent of the total number of shares of Duke Energy common stock expected to be repurchased under the ASR. The company recorded the \$1.5 billion payment as a reduction to common stock as of April 6, 2015. In June 2015, the Dealers delivered 3.2 million additional shares to Duke Energy to complete the ASR. Approximately 19.8 million shares, in total, were delivered to Duke Energy and retired under the ASR at an average price of \$75.75 per share. The final number of shares repurchased was based upon the average of the daily volume weighted average stock prices of Duke Energy's common stock during the term of the program, less a discount.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

19. SEVERANCE

As part of its strategic planning processes, Duke Energy implemented targeted cost savings initiatives during 2016 and 2015 aimed at reducing operations and maintenance expense. The initiatives included efforts to reduce costs through the standardization of processes and systems, leveraging technology and workforce optimization throughout the company.

During 2016, Duke Energy and Piedmont announced severance plans covering certain eligible employees whose employment will be involuntarily terminated without cause as a result of Duke Energy's acquisition of Piedmont. These reductions continue to be implemented and are a part of the synergies expected to be realized with the acquisition. Refer to Note 2 for additional information on the Piedmont acquisition.

Severance benefit costs for initiatives and plans discussed above were accrued for a total of approximately 100 employees in 2017, 600 employees in 2016 and 900 employees in 2015. The following table presents the direct and allocated severance and related expenses recorded by the Duke Energy Registrants. Amounts are included within Operation, maintenance and other on the Consolidated Statements of Operations.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont ^(a)
Year Ended December 31, 2017	\$ 15	\$ 2	\$ 2	\$ 1	\$ 1	\$ —	\$ 1	\$ 9
Year Ended December 31, 2016	118	39	40	23	17	3	7	
Year Ended December 31, 2015	142	93	36	28	8	2	6	

(a) Piedmont severance benefit costs were \$3 million for the two months ended December 31, 2016, and \$19 million for the year ended October 31, 2016. Piedmont did not record any severance benefit costs for the year ended October 31, 2015.

The table below presents the severance liability for past and ongoing severance plans including the plans described above. Amounts for Duke Energy Indiana and Duke Energy Ohio are not material.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Piedmont
Balance at December 31, 2016	\$ 79	\$ 13	\$ 14	\$ 6	\$ 8	\$ 20
Provision/Adjustments	17	2	—	—	—	9
Cash Reductions	(77)	(10)	(12)	(5)	(8)	(24)
Balance at December 31, 2017	\$ 19	\$ 5	\$ 2	\$ 1	\$ —	\$ 5

20. STOCK-BASED COMPENSATION

The Duke Energy Corporation 2015 Long-Term Incentive Plan (the 2015 Plan) provides for the grant of stock-based compensation awards to employees and outside directors. The 2015 Plan reserves 10 million shares of common stock for issuance. Duke Energy has historically issued new shares upon exercising or vesting of share-based awards. However, Duke Energy may use a combination of new share issuances and open market repurchases for share-based awards that are exercised or vest in the future. Duke Energy has not determined with certainty the amount of such new share issuances or open market repurchases.

The following table summarizes the total expense recognized by the Duke Energy Registrants, net of tax, for stock-based compensation.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Duke Energy	\$ 43	\$ 35	\$ 38
Duke Energy Carolinas	15	12	14
Progress Energy	16	12	14
Duke Energy Progress	10	7	9
Duke Energy Florida	6	5	5
Duke Energy Ohio	3	2	2
Duke Energy Indiana	4	3	4
Piedmont ^(a)	3		

(a) See discussion below for information on Piedmont's pre-merger stock-based compensation plans.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy's pretax stock-based compensation costs, the tax benefit associated with stock-based compensation expense and stock-based compensation costs capitalized are included in the following table.

(in millions)	Years Ended December 31,		
	2017	2016	2015
Restricted stock unit awards	\$ 41	\$ 36	\$ 38
Performance awards	27	19	23
Pretax stock-based compensation cost	\$ 68	\$ 55	\$ 61
Tax benefit associated with stock-based compensation expense	\$ 25	\$ 20	\$ 23
Stock-based compensation costs capitalized	4	2	3

RESTRICTED STOCK UNIT AWARDS

Restricted stock unit (RSU) awards generally vest over periods from immediate to three years. Fair value amounts are based on the market price of Duke Energy's common stock on the grant date. The following table includes information related to restricted stock unit awards.

	Years Ended December 31,		
	2017	2016	2015
Shares awarded (in thousands)	583	684	524
Fair value (in millions)	\$ 47	\$ 52	\$ 41

The following table summarizes information about restricted stock unit awards outstanding.

	Shares (in thousands)	Weighted Average Grant Date Fair Value (per share)
Outstanding at December 31, 2016	1,139	\$ 76
Granted	583	80
Vested	(553)	76
Forfeited	(48)	78
Outstanding at December 31, 2017	1,121	78
Restricted stock unit awards expected to vest	1,094	78

The total grant date fair value of shares vested during the years ended December 31, 2017, 2016 and 2015 was \$42 million, \$38 million and \$41 million, respectively. At December 31, 2017, Duke Energy had \$29 million of unrecognized compensation cost, which is expected to be recognized over a weighted average period of twenty-three months.

PERFORMANCE AWARDS

Stock-based performance awards generally vest after three years if performance targets are met.

Performance awards granted in 2017, 2016 and 2015 contain market conditions based on the total shareholder return (TSR) of Duke Energy stock relative to a predefined peer group (relative TSR). These awards are valued using a path-dependent model that incorporates expected relative TSR into the fair value determination of Duke Energy's performance-based share awards. The model uses three-year historical volatilities and correlations for all companies in the predefined peer group, including Duke Energy, to simulate Duke Energy's relative TSR as of the end of the performance period. For each simulation, Duke Energy's relative TSR associated with the simulated stock price at the end of the performance period

plus expected dividends within the period results in a value per share for the award portfolio. The average of these simulations is the expected portfolio value per share. Actual life to date results of Duke Energy's relative TSR for each grant are incorporated within the model. For performance awards granted in 2017, the model used a risk-free interest rate of 1.5 percent, which reflects the yield on three-year Treasury bonds as of the grant date, and an expected volatility of 17.2 percent based on Duke Energy's historical volatility over three years using daily stock prices.

In addition to TSR, performance awards granted in 2017 and 2016 contain a performance condition based on Duke Energy's cumulative adjusted EPS. Performance awards granted in 2017 also contain a performance condition based on the total incident case rate, one of our key employee safety metrics. The actual number of shares issued will range from zero to 200 percent of target shares depending on the level of performance achieved.

The following table includes information related to stock-based performance awards.

	Years Ended December 31,		
	2017	2016	2015
Shares granted assuming target performance (in thousands)	461	338	321
Fair value (in millions)	\$ 37	\$ 25	\$ 26

The following table summarizes information about stock-based performance awards outstanding and assumes payout at the target level.

	Shares (in thousands)	Weighted Average Grant Date Fair Value (per share)
Outstanding at December 31, 2016	862	\$ 75
Granted	461	81
Forfeited	(258)	69
Outstanding at December 31, 2017	1,065	79
Stock-based performance awards expected to vest	1,034	79

No performance awards vested during the year ended December 31, 2017. The total grant date fair value of shares vested during the years ended December 31, 2016 and 2015 was \$25 million and \$26 million, respectively. At December 31, 2017, Duke Energy had \$34 million of unrecognized compensation cost, which is expected to be recognized over a weighted average period of twenty-three months.

STOCK OPTIONS

Stock options, when granted, have a maximum option term of 10 years and with an exercise price not less than the market price of Duke Energy's common stock on the grant date. There were no stock options granted or exercised during the year ended December 31, 2017. There were no stock options outstanding at December 31, 2017.

The following table summarizes additional information related to stock options exercised and granted.

(in millions)	Years Ended December 31,	
	2016	2015
Intrinsic value of options exercised	\$ 1	\$ 5
Tax benefit related to options exercised	—	2
Cash received from options exercised	7	17

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

PIEDMONT

Prior to Duke Energy's acquisition of Piedmont, Piedmont had an incentive compensation plan that had a series of three-year performance and RSU awards for eligible officers and other participants. The Agreement and Plan of Merger (Merger Agreement) between Duke Energy and Piedmont provided for the conversion of the 2014-2016 and 2015-2017 performance awards and the nonvested 2016 RSU award into the right to receive \$60 cash per share upon the close of the transaction. In December 2015, Piedmont's board of directors authorized the accelerated vesting, payment and taxation of the 2014-2016 and 2015-2017 performance awards, as well as the 2016 RSU award, at the election of the participant. Substantially all participants elected to accelerate

the settlement of these awards. As a result of the settlement of these awards, 194 thousand shares of Piedmont shares were issued to participants, net of shares withheld for applicable federal and state income taxes, at a closing price of \$56.85 and a fair value of \$11 million. The 2016-2018 performance award cycle was approved subsequent to the Merger Agreement and was converted into a Duke Energy RSU award as discussed above at the consummation of the acquisition.

Piedmont's stock-based compensation costs and the tax benefit associated with stock-based compensation expense are included in the following table. Piedmont's stock-based compensation costs were not material for the two months ended December 31, 2016.

(in millions)	Years Ended October 31,	
	2016	2015
Pretax stock-based compensation cost	\$ 16	\$ 14
Tax benefit associated with stock-based compensation expense	6	4
Net of tax stock-based compensation cost	\$ 10	\$ 10

21. EMPLOYEE BENEFIT PLANS

DEFINED BENEFIT RETIREMENT PLANS

Duke Energy and certain subsidiaries maintain, and the Subsidiary Registrants participate in, qualified, non-contributory defined benefit retirement plans. The Duke Energy plans cover most employees using a cash balance formula. Under a cash balance formula, a plan participant accumulates a retirement benefit consisting of pay credits based upon a percentage of current eligible earnings, age or age and years of service and interest credits. Certain employees are eligible for benefits that use a final average earnings formula. Under these final average earnings formulas, a plan participant accumulates a retirement benefit equal to the sum of percentages of their (i) highest three-year, four-year, or five-year average earnings, (ii) highest three-year, four-year, or five-year average earnings in excess of covered compensation per year of participation (maximum of 35 years), (iii) highest three-year average earnings times years of participation in excess of 35 years. Duke Energy also maintains, and the Subsidiary Registrants participate in, non-qualified, non-contributory defined benefit retirement plans that cover certain executives. The qualified and non-qualified, non-contributory defined benefit plans are closed to new participants.

Duke Energy approved plan amendments to restructure its qualified non-contributory defined benefit retirement plans, effective January 1, 2018. The restructuring involved (i) the spin-off of the majority of inactive participants from two plans into a separate inactive plan and (ii) the merger of the active

participant portions of such plans, along with a pension plan acquired as part of the Piedmont transaction, into a single active plan. Benefits offered to the plan participants remain unchanged except that the Piedmont plan's final average earnings formula was frozen as of December 31, 2017, and affected participants were moved into the active plan's cash balance formula. Actuarial gains and losses associated with the Inactive Plan will be amortized over the remaining life expectancy of the inactive participants. The longer amortization period is expected to lower Duke Energy's 2018 pretax qualified pension plan expense by approximately \$33 million.

Duke Energy uses a December 31 measurement date for its defined benefit retirement plan assets and obligations.

Net periodic benefit costs disclosed in the tables below represent the cost of the respective benefit plan for the periods presented. However, portions of the net periodic benefit costs disclosed in the tables below have been capitalized as a component of property, plant and equipment. Amounts presented in the tables below for the Subsidiary Registrants represent the amounts of pension and other post-retirement benefit cost allocated by Duke Energy for employees of the Subsidiary Registrants. Additionally, the Subsidiary Registrants are allocated their proportionate share of pension and post-retirement benefit cost for employees of Duke Energy's shared services affiliate that provide support to the Subsidiary Registrants. These allocated amounts are included in the governance and shared service costs discussed in Note 13.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy's policy is to fund amounts on an actuarial basis to provide assets sufficient to meet benefit payments to be paid to plan participants. The following table includes information related to the Duke Energy Registrants' contributions to its qualified defined benefit pension plans.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont ^(a)
Anticipated Contributions:								
Total anticipated 2018 contributions	\$ 148	\$ 46	\$ 45	\$ 25	\$ 20	\$ —	\$ 8	\$ 7
Contributions made January 2, 2018	141	46	45	25	20	—	8	—
Contributions to be made in 2018	\$ 7	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 7
Contributions Made:								
2017	\$ 19	\$ —	\$ —	\$ —	\$ —	\$ 4	\$ —	\$ 11
2016	155	43	43	24	20	5	9	
2015	302	91	83	42	40	8	19	

(a) Piedmont contributed \$10 million to its U.S. qualified defined benefit pension plan during the two months ended December 31, 2016, and for each of the years ended October 31, 2016, and 2015, respectively.

QUALIFIED PENSION PLANS

Components of Net Periodic Pension Costs

Year Ended December 31, 2017								
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 159	\$ 48	\$ 45	\$ 26	\$ 19	\$ 4	\$ 9	\$ 10
Interest cost on projected benefit obligation	328	79	100	47	53	18	26	14
Expected return on plan assets	(545)	(142)	(167)	(82)	(85)	(27)	(42)	(24)
Amortization of actuarial loss	146	31	52	23	29	5	12	11
Amortization of prior service credit	(24)	(8)	(3)	(2)	(1)	(1)	(2)	(2)
Settlement charge	12	—	—	—	—	—	—	12
Other	8	2	2	1	1	—	1	1
Net periodic pension costs ^{(a)(b)}	\$ 84	\$ 10	\$ 29	\$ 13	\$ 16	\$ (1)	\$ 4	\$ 22

Year Ended December 31, 2016								
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Duke Energy Indiana
Service cost	\$ 147	\$ 48	\$ 42	\$ 24	\$ 19	\$ 4	\$ 9	\$ 9
Interest cost on projected benefit obligation	335	86	106	49	55	19	28	28
Expected return on plan assets	(519)	(142)	(168)	(82)	(84)	(27)	(42)	(42)
Amortization of actuarial loss	134	33	51	23	29	4	11	11
Amortization of prior service (credit)	(17)	(8)	(3)	(2)	(1)	—	(1)	(1)
Settlement charge	3	—	—	—	—	—	—	—
Other	8	2	3	1	1	1	1	1
Net periodic pension costs ^{(a)(b)}	\$ 91	\$ 19	\$ 31	\$ 13	\$ 19	\$ 1	\$ 6	\$ 6

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Year Ended December 31, 2015						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Service cost	\$ 159	\$ 50	\$ 44	\$ 23	\$ 20	\$ 4	\$ 10
Interest cost on projected benefit obligation	324	83	104	48	54	18	27
Expected return on plan assets	(516)	(139)	(171)	(79)	(87)	(26)	(42)
Amortization of actuarial loss	166	39	65	33	31	7	13
Amortization of prior service (credit) cost	(15)	(7)	(3)	(2)	(1)	—	1
Other	8	2	3	1	1	—	1
Net periodic pension costs ^{(a)(b)}	\$ 126	\$ 28	\$ 42	\$ 24	\$ 18	\$ 3	\$ 10

(a) Duke Energy amounts exclude \$7 million, \$8 million and \$9 million for the years ended December 2017, 2016 and 2015, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.

(b) Duke Energy Ohio amounts exclude \$3 million, \$4 million and \$4 million for the years ended December 2017, 2016 and 2015, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.

(in millions)	Piedmont		
	Two Months Ended	Years Ended October 31,	
	December 31, 2016	2016	2015
Service cost	\$ 2	\$ 11	\$ 11
Interest cost on projected benefit obligation	2	9	12
Expected return on plan assets	(4)	(24)	(24)
Amortization of actuarial loss	2	8	9
Amortization of prior service credit	(1)	(2)	(2)
Settlement charge	3	—	—
Net periodic pension costs	\$ 4	\$ 2	\$ 6

Amounts Recognized in Accumulated Other Comprehensive Income and Regulatory Assets

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net (decrease) increase	\$ (212)	\$ (70)	\$ (49)	\$ (37)	\$ (11)	\$ 9	\$ (19)	\$ (64)
Accumulated other comprehensive loss (income)								
Deferred income tax expense	\$ —	—	3	—	—	—	—	—
Prior year service cost arising during the year	1	—	—	—	—	—	—	—
Amortization of prior year actuarial losses	(7)	—	(7)	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ (6)	\$ —	\$ (4)	\$ —	\$ —	\$ —	\$ —	\$ —

(in millions)	Year Ended December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	
Regulatory assets, net increase	\$ 214	\$ 4	\$ 34	\$ 18	\$ 16	\$ 2	\$ 9	
Accumulated other comprehensive (income) loss								
Deferred income tax expense	\$ 4	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	
Prior year service credit arising during the year	(2)	—	—	—	—	—	—	
Amortization of prior year actuarial losses	(7)	—	(1)	—	—	—	—	
Net amount recognized in accumulated other comprehensive income	\$ (5)	\$ —	\$ (1)	\$ —	\$ —	\$ —	\$ —	

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Combined Notes to Consolidated Financial Statements – (Continued)

Piedmont's regulatory asset net increase was \$34 million, \$35 million and \$20 million for the two months ended December 31, 2016, and for the years ended October 31, 2016, and 2015, respectively.

Reconciliation of Funded Status to Net Amount Recognized

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Obligation at prior measurement date	\$ 8,131	\$ 1,952	\$ 2,512	\$ 1,158	\$ 1,323	\$ 447	\$ 658	\$ 344
Service cost	159	48	45	26	19	4	9	10
Interest cost	328	79	100	47	53	18	26	14
Actuarial loss	455	68	158	57	99	35	26	38
Transfers	—	27	(32)	(2)	(15)	12	—	—
Plan amendments	(61)	—	—	—	—	—	—	(61)
Benefits paid	(537)	(145)	(146)	(75)	(69)	(37)	(50)	(5)
Benefits paid - settlements	(27)	—	—	—	—	—	—	(27)
Obligation at measurement date	\$ 8,448	\$ 2,029	\$ 2,637	\$ 1,211	\$ 1,410	\$ 479	\$ 669	\$ 313
Accumulated Benefit Obligation at measurement date	\$ 8,369	\$ 2,029	\$ 2,601	\$ 1,211	\$ 1,375	\$ 468	\$ 652	\$ 313
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 8,531	\$ 2,225	\$ 2,675	\$ 1,290	\$ 1,352	\$ 428	\$ 657	\$ 346
Employer contributions	19	—	—	—	—	4	—	11
Actual return on plan assets	1,017	265	317	153	161	51	77	43
Benefits paid	(537)	(145)	(146)	(75)	(69)	(37)	(50)	(5)
Benefits paid - settlements	(27)	—	—	—	—	—	—	(27)
Transfers	—	27	(32)	(2)	(15)	12	—	—
Plan assets at measurement date	\$ 9,003	\$ 2,372	\$ 2,814	\$ 1,366	\$ 1,429	\$ 458	\$ 684	\$ 368
Funded status of plan	\$ 555	\$ 343	\$ 177	\$ 155	\$ 19	\$ (21)	\$ 15	\$ 55

(in millions)	Year Ended December 31, 2016						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Change in Projected Benefit Obligation							
Obligation at prior measurement date	\$ 7,727	\$ 1,995	\$ 2,451	\$ 1,143	\$ 1,276	\$ 453	\$ 649
Obligation assumed from acquisition	352	—	—	—	—	—	—
Service cost	147	48	42	24	19	4	9
Interest cost	335	86	106	49	55	19	28
Actuarial loss	307	46	111	52	57	13	41
Transfers	—	14	(3)	(3)	—	(3)	—
Plan amendments	(52)	(3)	—	—	—	(3)	(15)
Benefits paid	(679)	(234)	(195)	(107)	(84)	(36)	(54)
Impact of settlements	(6)	—	—	—	—	—	—
Obligation at measurement date	\$ 8,131	\$ 1,952	\$ 2,512	\$ 1,158	\$ 1,323	\$ 447	\$ 658
Accumulated Benefit Obligation at measurement date	\$ 8,006	\$ 1,952	\$ 2,479	\$ 1,158	\$ 1,290	\$ 436	\$ 649
Change in Fair Value of Plan Assets							
Plan assets at prior measurement date	\$ 8,136	\$ 2,243	\$ 2,640	\$ 1,284	\$ 1,321	\$ 433	\$ 655
Assets received from acquisition	343	—	—	—	—	—	—
Employer contributions	155	43	43	24	20	5	9
Actual return on plan assets	582	159	190	92	95	29	47
Benefits paid	(679)	(234)	(195)	(107)	(84)	(36)	(54)
Impact of settlements	(6)	—	—	—	—	—	—
Transfers	—	14	(3)	(3)	—	(3)	—
Plan assets at measurement date	\$ 8,531	\$ 2,225	\$ 2,675	\$ 1,290	\$ 1,352	\$ 428	\$ 657
Funded status of plan	\$ 400	\$ 273	\$ 163	\$ 132	\$ 29	\$ (19)	\$ (1)

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Piedmont	
	Two Months Ended	Years Ended
	December 31, 2016	October 31, 2016
Change in Projected Benefit Obligation		
Obligation at prior measurement date	\$ 352	\$ 312
Service cost	2	11
Interest cost	2	9
Actuarial gain	(5)	34
Benefits paid	(1)	(14)
Impact of settlements	(6)	—
Obligation at measurement date	\$ 344	\$ 352
Accumulated Benefit Obligation at measurement date	\$ 289	\$ 296
Change in Fair Value of Plan Assets		
Plan assets at prior measurement date	\$ 343	\$ 329
Employer contributions	10	10
Actual return on plan assets	—	18
Benefits paid	(1)	(14)
Impact of settlements	(6)	—
Plan assets at measurement date	\$ 346	\$ 343
Funded status of plan	\$ 2	\$ (9)

Amounts Recognized in the Consolidated Balance Sheets

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Prefunded pension ^(a)	\$ 680	\$ 343	\$ 245	\$ 155	\$ 87	\$ 8	\$ 16	\$ 55
Noncurrent pension liability ^(b)	\$ 125	\$ —	\$ 68	\$ —	\$ 68	\$ 29	\$ 1	\$ —
Net asset (liability) recognized	\$ 555	\$ 343	\$ 177	\$ 155	\$ 19	\$ (21)	\$ 15	\$ 55
Regulatory assets	\$ 1,886	\$ 406	\$ 756	\$ 341	\$ 415	\$ 90	\$ 152	\$ 73
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (41)	\$ —	\$ (3)	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(5)	—	—	—	—	—	—	—
Net actuarial loss	116	—	9	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 70	\$ —	\$ 6	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension costs in the next year								
Unrecognized net actuarial loss	\$ 132	\$ 29	\$ 44	\$ 21	\$ 23	\$ 5	\$ 7	\$ 11
Unrecognized prior service credit	(32)	(8)	(3)	(2)	(1)	—	(2)	(9)

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Prefunded pension ^(a)	\$ 518	\$ 273	\$ 225	\$ 132	\$ 91	\$ 6	\$ —	3
Noncurrent pension liability ^(b)	\$ 118	\$ —	\$ 62	\$ —	\$ 62	\$ 25	\$ 1	—
Net asset recognized	\$ 400	\$ 273	\$ 163	\$ 132	\$ 29	\$ (19)	\$ (1)	\$ 3
Regulatory assets	\$ 2,098	\$ 476	\$ 805	\$ 378	\$ 426	\$ 81	\$ 171	\$ 137
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (41)	\$ —	\$ (6)	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(6)	—	—	—	—	—	—	—
Net actuarial loss	123	—	16	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 76	\$ —	\$ 10	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension costs in the next year								
Unrecognized net actuarial loss	\$ 147	\$ 31	\$ 52	\$ 23	\$ 29	\$ 5	\$ 8	\$ 13
Unrecognized prior service credit	\$ (24)	\$ (8)	\$ (3)	\$ (2)	\$ (1)	\$ —	\$ (2)	\$ (2)

(a) Included in Other within Other Noncurrent Assets on the Consolidated Balance Sheets.

(b) Included in Accrued pension and other post-retirement benefit costs on the Consolidated Balance Sheets.

Information for Plans with Accumulated Benefit Obligation in Excess of Plan Assets

(in millions)	December 31, 2017			
	Duke Energy	Progress Energy	Duke Energy Florida	Duke Energy Ohio
Projected benefit obligation	\$ 1,386	\$ 718	\$ 718	\$ 337
Accumulated benefit obligation	1,326	683	683	326
Fair value of plan assets	1,260	650	650	308

(in millions)	December 31, 2016			
	Duke Energy	Progress Energy	Duke Energy Florida	Duke Energy Ohio
Projected benefit obligation	\$ 1,299	\$ 665	\$ 665	\$ 311
Accumulated benefit obligation	1,239	633	633	299
Fair value of plan assets	1,182	604	604	286

Assumptions Used for Pension Benefits Accounting

The discount rate used to determine the current year pension obligation and following year's pension expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

The average remaining service period of active covered employees is 13 years for Duke Energy and Duke Energy Progress, 12 years for Duke Energy Carolinas, Progress Energy, and Duke Energy Florida, 14 years for Duke Energy Ohio and Duke Energy Indiana, and nine years for Piedmont.

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Combined Notes to Consolidated Financial Statements – (Continued)

The following tables present the assumptions or range of assumptions used for pension benefit accounting.

	December 31,		
	2017	2016	2015
Benefit Obligations			
Discount rate	3.60%	4.10%	4.40%
Salary increase	3.50% – 4.00%	4.00% – 4.50%	4.00% – 4.40%
Net Periodic Benefit Cost			
Discount rate	4.10%	4.40%	4.10%
Salary increase	4.00% – 4.50%	4.00% – 4.40%	4.00% – 4.40%
Expected long-term rate of return on plan assets	6.50% – 6.75%	6.50% – 6.75%	6.50%

	Piedmont		
	Two Months Ended	Years Ended October 31,	
	December 31, 2016	2016	2015
Benefit Obligations			
Discount rate		4.10%	3.80%
Salary increase		4.50%	4.05%
Net Periodic Benefit Cost			
Discount rate		3.80%	4.34%
Salary increase		4.05%	4.07%
Expected long-term rate of return on plan assets		6.75%	7.25%

Expected Benefit Payments

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Years ending December 31,								
2018	\$ 642	\$ 185	\$ 161	\$ 85	\$ 75	\$ 36	\$ 47	29
2019	644	185	164	86	77	36	46	26
2020	661	195	172	90	80	36	44	24
2021	666	194	175	93	81	37	44	24
2022	672	197	176	92	83	36	44	23
2023-2027	3,099	865	888	449	435	166	210	103

NON-QUALIFIED PENSION PLANS

Components of Net Periodic Pension Costs

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 2	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —	—
Interest cost on projected benefit obligation	13	1	5	1	2	—	—	—
Amortization of actuarial loss	8	—	2	1	1	—	—	—
Amortization of prior service credit	(2)	—	—	—	—	—	—	—
Net periodic pension costs	\$ 21	\$ 2	\$ 7	\$ 2	\$ 3	\$ —	\$ —	—

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Year Ended December 31, 2016						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Service cost	\$ 2	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Interest cost on projected benefit obligation	14	1	5	1	2	—	—
Amortization of actuarial loss	8	1	1	1	1	—	—
Amortization of prior service credit	(1)	—	—	—	—	—	—
Net periodic pension costs	\$ 23	\$ 2	\$ 6	\$ 2	\$ 3	\$ —	\$ —

(in millions)	Year Ended December 31, 2015						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Service cost	\$ 3	\$ —	\$ 1	\$ —	\$ —	\$ —	\$ —
Interest cost on projected benefit obligation	13	1	4	1	2	—	—
Amortization of actuarial loss	6	—	2	1	2	—	1
Amortization of prior service credit	(1)	—	(1)	—	—	—	—
Net periodic pension costs	\$ 21	\$ 1	\$ 6	\$ 2	\$ 4	\$ —	\$ 1

(in millions)	Piedmont	
	Years Ended October 31,	
	2016	2015
Amortization of prior service cost	\$ —	\$ 1
Settlement charge	1	—
Net periodic pension costs	\$ 1	\$ 1

Amounts Recognized in Accumulated Other Comprehensive Income and Regulatory Assets and Liabilities

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net (decrease) increase	\$ 5	\$ (1)	\$ 3	\$ 1	\$ 2	\$ —	\$ —	\$ —
Accumulated other comprehensive (income) loss	\$ (1)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Deferred income tax benefit	2	—	—	—	—	—	—	—
Actuarial loss arising during the year	—	—	—	—	—	—	—	—
Net amount recognized in accumulated other comprehensive loss (income)	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

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Combined Notes to Consolidated Financial Statements – (Continued)

	Year Ended December 31, 2016							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	
Regulatory assets, net (decrease) increase	\$ (3)	\$ (2)	\$ 2	\$ 1	\$ 1	\$ —	\$ (1)	
Accumulated other comprehensive (income) loss								
Prior service credit arising during the year	\$ (1)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	
Actuarial gains arising during the year	1	—	—	—	—	—	—	
Net amount recognized in accumulated other comprehensive loss (income)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	

Reconciliation of Funded Status to Net Amount Recognized

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Obligation at prior measurement date	\$ 332	\$ 14	\$ 114	\$ 33	\$ 46	\$ 4	\$ 3	\$ 4
Service cost	2	1	—	—	—	—	—	—
Interest cost	13	1	5	1	2	—	—	—
Actuarial losses (gains)	15	—	5	4	2	—	—	—
Benefits paid	(31)	(2)	(8)	(3)	(3)	—	—	—
Obligation at measurement date	\$ 331	\$ 14	\$ 116	\$ 35	\$ 47	\$ 4	\$ 3	\$ 4
Accumulated Benefit Obligation at measurement date	\$ 331	\$ 14	\$ 116	\$ 35	\$ 47	\$ 4	\$ 3	\$ 4
Change in Fair Value of Plan Assets								
Benefits paid	\$ (31)	\$ (2)	\$ (8)	\$ (3)	\$ (3)	\$ —	\$ —	\$ —
Employer contributions	31	2	8	3	3	—	—	—
Plan assets at measurement date	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

	Year Ended December 31, 2016							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	
Change in Projected Benefit Obligation								
Obligation at prior measurement date	\$ 341	\$ 16	\$ 112	\$ 33	\$ 46	\$ 4	5	
Obligation assumed from acquisition	5	—	—	—	—	—	—	
Service cost	2	—	—	—	—	—	—	
Interest cost	14	1	5	1	2	—	—	
Actuarial losses (gains)	4	(1)	5	2	1	—	(2)	
Plan amendments	(2)	—	—	—	—	—	—	
Benefits paid	(32)	(2)	(8)	(3)	(3)	—	—	
Obligation at measurement date	\$ 332	\$ 14	\$ 114	\$ 33	\$ 46	\$ 4	3	
Accumulated Benefit Obligation at measurement date	\$ 332	\$ 14	\$ 114	\$ 33	\$ 46	\$ 4	3	
Change in Fair Value of Plan Assets								
Benefits paid	\$ (32)	\$ (2)	\$ (8)	\$ (3)	(3)	—	—	
Employer contributions	32	2	8	3	3	—	—	
Plan assets at measurement date	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	—	

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Piedmont	
	Two Months Ended	Years Ended
	December 31, 2016	October 31, 2016
Change in Projected Benefit Obligation		
Obligation at prior measurement date	\$ 5	\$ 6
Actuarial gain	(1)	—
Impact of settlements	—	(1)
Obligation at measurement date	\$ 4	\$ 5
Accumulated Benefit Obligation at measurement date	\$ —	\$ 5
Change in Fair Value of Plan Assets		
Plan assets at prior measurement date	\$ —	\$ 1
Impact of settlements	—	(1)
Plan assets at measurement date	\$ —	\$ —

Amounts Recognized in the Consolidated Balance Sheets

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current pension liability ^(a)	\$ 23	\$ 2	\$ 8	\$ 3	\$ 3	\$ —	\$ —	\$ —
Noncurrent pension liability ^(b)	308	12	108	32	44	4	3	4
Total accrued pension liability	\$ 331	\$ 14	\$ 116	\$ 35	\$ 47	\$ 4	\$ 3	\$ 4
Regulatory assets	\$ 78	\$ 4	\$ 21	\$ 8	\$ 13	\$ 1	\$ —	\$ 1
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (4)	\$ —	\$ (3)	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(1)	—	—	—	—	—	—	—
Net actuarial loss	12	—	9	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 7	\$ —	\$ 6	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year								
Unrecognized net actuarial loss	\$ 8	\$ —	\$ 2	\$ 1	\$ 1	\$ —	\$ —	\$ —
Unrecognized prior service credit	(2)	—	—	—	—	—	—	—

(in millions)	December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current pension liability ^(a)	\$ 28	\$ 2	\$ 8	\$ 2	\$ 3	\$ —	\$ —	\$ —
Noncurrent pension liability ^(b)	304	12	106	31	43	4	3	4
Total accrued pension liability	\$ 332	\$ 14	\$ 114	\$ 33	\$ 46	\$ 4	\$ 3	\$ 4
Regulatory assets	\$ 73	\$ 5	\$ 18	\$ 7	\$ 11	\$ 1	\$ —	\$ 1
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (3)	\$ —	\$ (3)	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(1)	—	—	—	—	—	—	—
Net actuarial loss	10	—	9	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 6	\$ —	\$ 6	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year								
Unrecognized net actuarial loss	\$ 7	\$ —	\$ 2	\$ 1	\$ 1	\$ —	\$ —	\$ —
Unrecognized prior service credit	(2)	—	—	—	—	—	—	—

(a) Included in Other within Current Liabilities on the Consolidated Balance Sheets.

(b) Included in Accrued pension and other post-retirement benefit costs on the Consolidated Balance Sheets.

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Combined Notes to Consolidated Financial Statements – (Continued)

Information for Plans with Accumulated Benefit Obligation in Excess of Plan Assets

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Projected benefit obligation	\$ 331	\$ 14	\$ 116	\$ 35	\$ 47	\$ 4	\$ 3	\$ 4
Accumulated benefit obligation	331	14	116	35	47	4	3	4

(in millions)	December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Projected benefit obligation	\$ 332	\$ 14	\$ 114	\$ 33	\$ 46	\$ 4	\$ 3	\$ 4
Accumulated benefit obligation	332	14	114	33	46	4	3	4

Assumptions Used for Pension Benefits Accounting

The discount rate used to determine the current year pension obligation and following year's pension expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

The average remaining service period of active covered employees is 11 years for Duke Energy and Duke Energy Progress, 14 years for Progress Energy, 15 years for Duke Energy Florida, eight years for Duke Energy Carolinas, Duke Energy Ohio, and Duke Energy Indiana, and nine years for Piedmont. The following tables present the assumptions used for pension benefit accounting.

	December 31,		
	2017	2016	2015
Benefit Obligations			
Discount rate	3.60%	4.10%	4.40%
Salary increase	3.50% – 4.00%	4.40%	4.40%
Net Periodic Benefit Cost			
Discount rate	4.10%	4.40%	4.10%
Salary increase	4.40%	4.40%	4.40%

	Piedmont		
	Two Months Ended December 31, 2016	Years Ended October 31, 2016	2015
Benefit Obligations			
Discount rate	4.10%	3.80%	3.85%
Net Periodic Benefit Cost			
Discount rate	3.80%	3.85 %	3.69%

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Combined Notes to Consolidated Financial Statements – (Continued)

Expected Benefit Payments

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Years ending December 31,								
2018	\$ 23	\$ 2	\$ 8	\$ 3	\$ 3	\$ —	\$ —	—
2019	21	1	8	2	3	—	—	—
2020	21	1	8	2	3	—	—	—
2021	22	1	8	2	3	—	—	—
2022	25	1	8	2	3	—	—	—
2023-2027	117	6	36	11	15	1	1	2

OTHER POST-RETIREMENT BENEFIT PLANS

Duke Energy provides, and the Subsidiary Registrants participate in, some health care and life insurance benefits for retired employees on a contributory and non-contributory basis. Employees are eligible for these benefits if they have met age and service requirements at retirement, as defined in the plans. The health care benefits include medical, dental and prescription drug coverage and are subject to certain limitations, such as deductibles and copayments.

Duke Energy did not make any pre-funding contributions to its other post-retirement benefit plans during the years ended December 31, 2017, 2016 or 2015.

Components of Net Periodic Other Post-Retirement Benefit Costs

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 4	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 1
Interest cost on accumulated post-retirement benefit obligation	34	8	13	7	6	1	3	1
Expected return on plan assets	(14)	(8)	—	—	—	—	(1)	(2)
Amortization of actuarial loss (gain)	10	(2)	21	12	9	(2)	(1)	1
Amortization of prior service credit	(115)	(10)	(84)	(54)	(30)	—	(1)	—
Curtailment credit ^(c)	\$ (30)	\$ (4)	\$ (16)	\$ —	\$ (16)	\$ (2)	\$ (2)	\$ —
Net periodic post-retirement benefit costs ^{(a)(b)}	\$ (111)	\$ (15)	\$ (66)	\$ (35)	\$ (31)	\$ (3)	\$ (2)	\$ 1

(in millions)	Year Ended December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 3	\$ 1	\$ 1	\$ —	\$ 1	\$ —	\$ —	\$ —
Interest cost on accumulated post-retirement benefit obligation	35	8	15	8	7	1	—	4
Expected return on plan assets	(12)	(8)	—	—	—	—	—	(1)
Amortization of actuarial loss (gain)	6	(3)	22	13	9	(2)	(1)	(1)
Amortization of prior service credit	(141)	(14)	(103)	(68)	(35)	—	—	(1)
Net periodic post-retirement benefit costs ^{(a)(b)}	\$ (109)	\$ (16)	\$ (65)	\$ (47)	\$ (18)	\$ (1)	\$ —	\$ 1

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Year Ended December 31, 2015						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Service cost	\$ 6	\$ 1	\$ 1	\$ 1	\$ 1	\$ —	\$ 1
Interest cost on accumulated post-retirement benefit obligation	36	9	15	8	7	2	4
Expected return on plan assets	(13)	(8)	—	—	—	(1)	(1)
Amortization of actuarial loss (gain)	16	(2)	28	18	10	(2)	(2)
Amortization of prior service credit	(140)	(14)	(102)	(68)	(35)	—	—
Net periodic post-retirement benefit costs ^{(a)(b)}	\$ (95)	\$ (14)	\$ (58)	\$ (41)	\$ (17)	\$ (1)	\$ 2

(a) Duke Energy amounts exclude \$7 million, \$8 million and \$10 million for the years ended December 2017, 2016 and 2015, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.

(b) Duke Energy Ohio amounts exclude \$2 million, \$2 million and \$3 million for the years ended December 2017, 2016 and 2015, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.

(c) Curtailment credit resulted from a reduction in average future service of plan participants due to a plan amendment.

(in millions)	Piedmont Years Ended October 31,	
	2016	2015
Service cost	\$ 1	\$ 1
Interest cost on projected benefit obligation	1	2
Expected return on plan assets	(2)	(2)
Amortization of actuarial loss	1	—
Net periodic pension costs	\$ 1	\$ 1

Amounts Recognized in Accumulated Other Comprehensive Income and Regulatory Assets and Liabilities

(in millions)	Year Ended December 31, 2017						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Regulatory assets, net increase (decrease)	\$ 71	\$ —	\$ 81	\$ 42	\$ 39	\$ —	\$ (5)
Regulatory liabilities, net increase (decrease)	\$ (27)	\$ (2)	\$ —	\$ —	\$ —	\$ (3)	\$ (7)
Accumulated other comprehensive (income) loss							
Deferred income tax benefit	\$ (1)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amortization of prior year prior service credit	3	—	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ 2	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

(in millions)	Year Ended December 31, 2016						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Regulatory assets, net increase (decrease)	\$ 53	\$ —	\$ 47	\$ 38	\$ 9	\$ —	\$ (6)
Regulatory liabilities, net increase (decrease)	\$ (114)	\$ (22)	\$ (51)	\$ (25)	\$ (26)	\$ (2)	\$ (12)
Accumulated other comprehensive (income) loss							
Deferred income tax benefit	\$ (2)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Actuarial losses arising during the year	3	—	—	—	—	—	—
Amortization of prior year prior service credit	1	—	1	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ 2	\$ —	\$ 1	\$ —	\$ —	\$ —	\$ —

Piedmont's regulatory assets net decreased \$1 million for the two months ended December 31, 2016, and increased \$2 million and \$1 million for the years ended October 31, 2016, and 2015, respectively.

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Combined Notes to Consolidated Financial Statements – (Continued)

Reconciliation of Funded Status to Accrued Other Post-Retirement Benefit Costs

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Accumulated post-retirement benefit obligation at prior measurement date	\$ 868	\$ 201	\$ 357	\$ 191	\$ 164	\$ 32	\$ 83	\$ 39
Service cost	4	1	—	—	—	—	—	1
Interest cost	34	8	13	7	6	1	3	1
Plan participants' contributions	17	3	6	3	3	1	2	—
Actuarial (gains) losses	4	(3)	4	1	3	—	3	1
Transfers	—	2	(1)	—	(1)	1	—	—
Plan amendments	(28)	(5)	(3)	(1)	(2)	(2)	(2)	(9)
Benefits paid	(86)	(18)	(34)	(17)	(17)	(3)	(11)	(1)
Accumulated post-retirement benefit obligation at measurement date	\$ 813	\$ 189	\$ 342	\$ 184	\$ 156	\$ 30	\$ 78	\$ 32
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 244	\$ 137	\$ 1	\$ —	\$ —	\$ 7	\$ 22	\$ 29
Actual return on plan assets	25	15	1	—	—	2	1	3
Benefits paid	(86)	(18)	(34)	(17)	(17)	(3)	(11)	(1)
Employer contributions (reimbursements)	25	(4)	26	14	14	—	(3)	—
Plan participants' contributions	17	3	6	3	3	1	2	—
Plan assets at measurement date	\$ 225	\$ 133	\$ —	\$ —	\$ —	\$ 7	\$ 11	\$ 31

(in millions)	Year Ended December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Duke Energy Indiana
Change in Projected Benefit Obligation								
Accumulated post-retirement benefit obligation at prior measurement date	\$ 828	\$ 200	\$ 354	\$ 188	\$ 164	\$ 35	\$ 87	\$ 87
Obligation assumed from acquisition	39	—	—	—	—	—	—	—
Service cost	3	1	1	—	1	—	—	—
Interest cost	35	8	15	8	7	1	4	4
Plan participants' contributions	19	3	7	4	3	1	2	2
Actuarial (gains) losses	33	5	16	8	8	—	3	3
Transfers	—	1	—	—	—	—	—	—
Plan amendments	(1)	—	—	—	—	(1)	—	—
Benefits paid	(88)	(17)	(36)	(17)	(19)	(4)	(13)	(13)
Accumulated post-retirement benefit obligation at measurement date	\$ 868	\$ 201	\$ 357	\$ 191	\$ 164	\$ 32	\$ 83	\$ 83
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 208	\$ 134	\$ —	\$ —	\$ 1	\$ 8	\$ 19	\$ 19
Assets received from acquisition	29	—	—	—	—	—	—	—
Actual return on plan assets	14	8	1	—	—	1	2	2
Benefits paid	(88)	(17)	(36)	(17)	(19)	(4)	(13)	(13)
Employer contributions	62	9	29	13	15	1	12	12
Plan participants' contributions	19	3	7	4	3	1	2	2
Plan assets at measurement date	\$ 244	\$ 137	\$ 1	\$ —	\$ —	\$ 7	\$ 22	\$ 22

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Piedmont	
	Two Months Ended	Years Ended
	December 31, 2016	October 31, 2016
Change in Projected Benefit Obligation		
Accumulated post-retirement benefit obligation at prior measurement date	\$ 39	\$ 38
Service cost	—	1
Interest cost	—	1
Actuarial gain	—	2
Benefits paid	—	(3)
Accumulated post-retirement benefit obligation at measurement date	\$ 39	\$ 39
Change in Fair Value of Plan Assets		
Plan assets at prior measurement date	\$ 29	\$ 28
Employer contributions	—	3
Actual return on plan assets	—	1
Benefits paid	—	(3)
Plan assets at measurement date	\$ 29	\$ 29

Amounts Recognized in the Consolidated Balance Sheets

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current post-retirement liability ^(a)	\$ 36	\$ —	\$ 29	\$ 15	\$ 14	\$ 2	\$ —	\$ —
Noncurrent post-retirement liability ^(b)	552	56	313	169	142	21	67	1
Total accrued post-retirement liability	\$ 588	\$ 56	\$ 342	\$ 184	\$ 156	\$ 23	\$ 67	\$ 1
Regulatory assets	\$ 125	\$ —	\$ 129	\$ 80	\$ 49	\$ —	\$ 46	\$ (4)
Regulatory liabilities	\$ 147	\$ 44	\$ —	\$ —	\$ —	\$ 16	\$ 64	\$ —
Accumulated other comprehensive (income) loss								
Deferred income tax expense	\$ 4	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(2)	—	—	—	—	—	—	—
Net actuarial gain	(10)	—	—	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive income	\$ (8)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year								
Unrecognized net actuarial loss	\$ 5	\$ 3	\$ 1	\$ —	\$ 1	\$ —	\$ —	\$ —
Unrecognized prior service credit	(19)	(5)	(7)	(1)	(6)	(1)	(1)	(2)

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current post-retirement liability ^(a)	\$ 38	\$ —	\$ 31	\$ 17	\$ 15	\$ 2	\$ —	\$ —
Noncurrent post-retirement liability ^(b)	586	64	325	174	149	23	63	10
Total accrued post-retirement liability	\$ 624	\$ 64	\$ 356	\$ 191	\$ 164	\$ 25	\$ 63	\$ 10
Regulatory assets	\$ 54	\$ —	\$ 48	\$ 38	\$ 10	\$ —	\$ 51	\$ 7
Regulatory liabilities	\$ 174	\$ 46	\$ —	\$ —	\$ —	\$ 19	\$ 71	\$ —
Accumulated other comprehensive (income) loss								
Deferred income tax expense	\$ 5	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(5)	—	—	—	—	—	—	—
Net actuarial gain	(10)	—	—	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive income	\$ (10)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year								
Unrecognized net actuarial loss (gain)	\$ 10	\$ (2)	\$ 21	\$ 12	\$ 9	\$ (2)	\$ (6)	\$ —
Unrecognized prior service credit	(115)	(10)	(85)	(55)	(30)	—	(1)	—

(a) Included in Other within Current Liabilities on the Consolidated Balance Sheets.

(b) Included in Accrued pension and other post-retirement benefit costs on the Consolidated Balance Sheets.

Assumptions Used for Other Post-Retirement Benefits Accounting

The discount rate used to determine the current year other post-retirement benefits obligation and following year's other post-retirement benefits expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected. The average remaining service period of active covered employees is nine years for Duke Energy, eight years for Duke Energy Carolinas, seven years for Duke Energy Florida, Duke Energy Ohio, and Piedmont, and six years for Progress Energy, Duke Energy Progress, and Duke Energy Indiana.

The following tables present the assumptions used for other post-retirement benefits accounting.

	December 31,		
	2017	2016	2015
Benefit Obligations			
Discount rate	3.60%	4.10%	4.40%
Net Periodic Benefit Cost			
Discount rate	4.10%	4.40%	4.10%
Expected long-term rate of return on plan assets	6.50%	6.50%	6.50%
Assumed tax rate	35%	35 %	35%

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Combined Notes to Consolidated Financial Statements – (Continued)

	Piedmont		
	Two Months Ended December 31, 2016	Years Ended October 31, 2016	2015
Benefit Obligations			
Discount rate	4.10%	3.80%	4.38%
Net Periodic Benefit Cost			
Discount rate	3.80%	4.38%	4.03%
Expected long-term rate of return on plan assets	6.75%	7.25%	7.50%

Assumed Health Care Cost Trend Rate

	December 31,	
	2017	2016
Health care cost trend rate assumed for next year	7.00%	7.00%
Rate to which the cost trend is assumed to decline (the ultimate trend rate)	4.75%	4.75%
Year that rate reaches ultimate trend	2024	2023

Sensitivity to Changes in Assumed Health Care Cost Trend Rates

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
1-Percentage Point Increase								
Effect on total service and interest costs	\$ 1	\$ —	\$ 1	\$ 1	\$ —	\$ —	\$ —	\$ —
Effect on post-retirement benefit obligation	27	6	11	6	5	1	3	1
1-Percentage Point Decrease								
Effect on total service and interest costs	(1)	—	—	—	—	—	—	—
Effect on post-retirement benefit obligation	(24)	(6)	(10)	(5)	(5)	(1)	(2)	(1)

Expected Benefit Payments

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Years ending December 31,								
2018	\$ 78	\$ 17	\$ 30	\$ 16	\$ 14	\$ 3	\$ 9	2
2019	76	17	29	15	14	3	9	2
2020	73	17	29	15	14	3	8	2
2021	71	17	28	15	13	3	7	3
2022	68	17	27	14	13	3	7	3
2023 – 2027	290	70	117	63	54	12	29	13

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Combined Notes to Consolidated Financial Statements – (Continued)

PLAN ASSETS

Description and Allocations

Duke Energy Master Retirement Trust

Assets for both the qualified pension and other post-retirement benefits are maintained in the Duke Energy Master Retirement Trust. Qualified pension and other post-retirement assets related to Piedmont were transferred into the Duke Energy Master Retirement Trust during 2017. Approximately 98 percent of the Duke Energy Master Retirement Trust assets were allocated to qualified pension plans and approximately 2 percent were allocated to other post-retirement plans (comprised of 401(h) accounts), as of December 31, 2017, and 2016. The investment objective of the Duke Energy Master Retirement Trust is to achieve reasonable returns, subject to a prudent level of portfolio risk, for the purpose of enhancing the security of benefits for plan participants.

As of December 31, 2017, Duke Energy assumes pension and other post-retirement plan assets will generate a long-term rate of return of 6.50 percent. The expected long-term rate of return was developed using a weighted average calculation of expected returns based primarily on future expected returns across asset classes considering the use of active asset managers, where applicable. The asset allocation targets were set after considering the investment objective and the risk profile. Equity securities are held for their higher expected returns. Debt securities are primarily held to hedge the qualified pension plan liability. Hedge funds, real estate and other global securities are held for diversification. Investments within asset classes are diversified to achieve broad market participation and reduce the impact of individual managers or investments.

The following table includes the target asset allocations by asset class at December 31, 2017, and the actual asset allocations for the Duke Energy Master Retirement Trust.

	Target Allocation	Actual Allocation at December 31,	
		2017	2016 ^(a)
U.S. equity securities	10%	11%	11%
Non-U.S. equity securities	8%	8%	8%
Global equity securities	10%	10%	10%
Global private equity securities	3%	2%	2%
Debt securities	63%	63%	63%
Hedge funds	2%	2%	2%
Real estate and cash	2%	2%	2%
Other global securities	2%	2%	2%
Total	100%	100%	100%

(a) Excludes Piedmont Pension Assets, which had a targeted asset allocation of 60 percent return-seeking and 40 percent liability hedging fixed-income. Actual asset allocations were 61 percent return-seeking and 39 percent liability hedging fixed-income at December 31, 2016.

In 2013, Duke Energy adopted a de-risking investment strategy for the Duke Energy Master Retirement Trust. As the funded status of the pension plans increase, the targeted allocation to fixed-income assets may be increased to better manage Duke Energy's pension liability and reduce funded status volatility. Duke Energy regularly reviews its actual asset allocation and periodically rebalances its investments to the targeted allocation when considered appropriate.

The Duke Energy Master Retirement Trust is authorized to engage in the lending of certain plan assets. Securities lending is an investment management enhancement that utilizes certain existing securities of the Duke Energy Master Retirement Trust to earn additional income. Securities lending involves the loaning of securities to approved parties. In return for the loaned securities, the Duke Energy Master Retirement Trust receives collateral in the form of cash and securities as a safeguard against possible default of any borrower on the return of the loan under terms that permit the Duke Energy Master Retirement Trust to sell the securities. The Duke Energy Master Retirement Trust mitigates credit risk associated with securities lending arrangements by monitoring the fair value of the securities loaned, with additional collateral obtained or refunded as necessary. The fair value of securities on loan was approximately \$195 million and \$156 million at December 31, 2017, and 2016, respectively. Cash and securities obtained as collateral exceeded the fair value of the securities loaned at December 31, 2017, and 2016, respectively. Securities lending income earned by the Duke Energy Master Retirement Trust was immaterial for the years ended December 31, 2017, 2016 and 2015, respectively.

Qualified pension and other post-retirement benefits for the Subsidiary Registrants are derived from the Duke Energy Master Retirement Trust, as such, each are allocated their proportionate share of the assets discussed below.

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Combined Notes to Consolidated Financial Statements – (Continued)

Other post-retirement assets

Duke Energy's other post-retirement assets are comprised of Voluntary Employees' Beneficiary Association (VEBA) trusts and 401(h) accounts held within the Duke Energy Master Retirement Trust. Duke Energy's investment objective is to achieve sufficient returns, subject to a prudent level of portfolio risk, for the purpose of promoting the security of plan benefits for participants.

The following table presents target and actual asset allocations for the VEBA trusts at December 31, 2017.

	Target Allocation	Actual Allocation at December 31,	
		2017	2016
U.S. equity securities	32%	41%	39%
Non-US equity securities	6%	8%	—%
Real estate	2%	2%	2%
Debt securities	45%	36%	37%
Cash	15%	13%	22%
Total	100%	100%	100%

Fair Value Measurements

Duke Energy classifies recurring and non-recurring fair value measurements based on the fair value hierarchy as discussed in Note 16.

Valuation methods of the primary fair value measurements disclosed below are as follows:

Investments in equity securities

Investments in equity securities are typically valued at the closing price in the principal active market as of the last business day of the reporting period. Principal active markets for equity prices include published exchanges such as NASDAQ and NYSE. Foreign equity prices are translated from their trading currency using the currency exchange rate in effect at the close of the principal active market. Prices have not been adjusted to reflect after-hours market activity. The majority of investments in equity securities are valued using Level 1 measurements. When the price of an institutional commingled fund is unpublished, it is not categorized in the fair value hierarchy, even though the funds are readily available at the fair value.

Investments in corporate debt securities and U.S. government securities

Most debt investments are valued based on a calculation using interest rate curves and credit spreads applied to the terms of the debt instrument (maturity and coupon interest rate) and consider the counterparty credit rating. Most debt valuations are Level 2 measurements. If the market for a particular fixed-income security is relatively inactive or illiquid, the measurement is Level 3. U.S. Treasury debt is typically Level 2.

Investments in short-term investment funds

Investments in short-term investment funds are valued at the net asset value of units held at year end and are readily redeemable at the measurement date. Investments in short-term investment funds with published prices are valued as Level 1. Investments in short-term investment funds with unpublished prices are valued as Level 2.

Investments in real estate limited partnerships

Investments in real estate limited partnerships are valued by the trustee at each valuation date (monthly). As part of the trustee's valuation process, properties are externally appraised generally on an annual basis, conducted by reputable, independent appraisal firms, and signed by appraisers that are members of the Appraisal Institute, with the professional designation MAI. Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. There are three valuation techniques that can be used to value investments in real estate assets: the market, income or cost approach. The appropriateness of each valuation technique depends on the type of asset or business being valued. In addition, the trustee may cause additional appraisals to be performed as warranted by specific asset or market conditions. Property valuations and the salient valuation-sensitive assumptions of each direct investment property are reviewed by the trustee quarterly and values are adjusted if there has been a significant change in circumstances related to the investment property since the last valuation. Value adjustments for interim capital expenditures are only recognized to the extent that the valuation process acknowledges a corresponding increase in fair value. An independent firm is hired to review and approve quarterly direct real estate valuations. Key inputs and assumptions used to determine fair value includes among others, rental revenue and expense amounts and related revenue and expense growth rates, terminal capitalization rates and discount rates. Development investments are valued using cost incurred to date as a primary input until substantive progress is achieved in terms of mitigating construction and leasing risk at which point a discounted cash flow approach is more heavily weighted. Key inputs and assumptions in addition to those noted above used to determine the fair value of development investments include construction costs and the status of construction completion and leasing. Investments in real estate limited partnerships are valued at net asset value of units held at year end and are not readily redeemable at the measurement date. Investments in real estate limited partnerships are not categorized within the fair value hierarchy.

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Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Master Retirement Trust

The following tables provide the fair value measurement amounts for the Duke Energy Master Retirement Trust qualified pension and other post-retirement assets.

(in millions)	December 31, 2017				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized ^(b)
Equity securities	\$2,823	\$1,976	\$ —	\$ —	\$ 847
Corporate debt securities	4,694	—	4,694	—	—
Short-term investment funds	246	192	54	—	—
Partnership interests	137	—	—	—	137
Hedge funds	226	—	—	—	226
Real estate limited partnerships	135	—	—	—	135
U.S. government securities	762	—	762	—	—
Guaranteed investment contracts	28	—	—	28	—
Governments bonds — foreign	38	—	38	—	—
Cash	6	6	—	—	—
Government and commercial mortgage backed securities	2	—	2	—	—
Net pending transactions and other investments	17	15	2	—	—
Total assets^(a)	\$9,114	\$2,189	\$5,552	\$ 28	\$ 1,345

(a) Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana, and Piedmont were allocated approximately 27 percent, 30 percent, 15 percent, 15 percent, 5 percent, 8 percent, and 4 percent, respectively, of the Duke Energy Master Retirement Trust at December 31, 2017. Accordingly, all amounts included in the table above are allocable to the Subsidiary Registrants using these percentages.

(b) Certain investments that are measured at fair value using the net asset value per share practical expedient have not been categorized in the fair value hierarchy.

(in millions)	December 31, 2016				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized ^(b)
Equity securities	\$2,472	\$1,677	\$ 27	\$ 9	\$ 759
Corporate debt securities	4,330	8	4,322	—	—
Short-term investment funds	476	211	265	—	—
Partnership interests	157	—	—	—	157
Hedge funds	232	—	—	—	232
Real estate limited partnerships	144	17	—	—	127
U.S. government securities	734	—	734	—	—
Guaranteed investment contracts	29	—	—	29	—
Governments bonds — foreign	32	—	32	—	—
Cash	17	15	2	—	—
Net pending transactions and other investments	32	1	6	—	25
Total assets^(a)	\$8,655	\$1,929	\$5,388	\$ 38	\$ 1,300

(a) Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio and Duke Energy Indiana were allocated approximately 27 percent, 30 percent, 15 percent, 15 percent, 5 percent and 8 percent, respectively, of the Duke Energy Master Retirement Trust and Piedmont's Pension assets at December 31, 2016. Accordingly, all amounts included in the table above are allocable to the Subsidiary Registrants using these percentages.

(b) Certain investments that are measured at fair value using the net asset value per share practical expedient have not been categorized in the fair value hierarchy.

The following table provides a reconciliation of beginning and ending balances of Duke Energy Master Retirement Trust qualified pension and other post-retirement assets and Piedmont Pension Assets at fair value on a recurring basis where the determination of fair value includes significant unobservable inputs (Level 3).

(in millions)	2017	2016
Balance at January 1	\$ 38	\$ 31
Combination of Piedmont Pension Assets	—	9
Sales	(2)	(2)
Total gains (losses) and other, net	1	—
Transfer of Level 3 assets to other classifications	(9)	—
Balance at December 31	\$ 28	\$ 38

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

Other post-retirement assets

The following tables provide the fair value measurement amounts for VEBA trust assets.

(in millions)	December 31, 2017	
	Total Fair Value	Level 2
Cash and cash equivalents	\$ 8	\$ 8
Real estate	1	1
Equity securities	28	28
Debt securities	21	21
Total assets	\$ 58	\$ 58

(in millions)	December 31, 2016	
	Total Fair Value	Level 2
Cash and cash equivalents	\$ 14	\$ 14
Real estate	1	1
Equity securities	26	26
Debt securities	25	25
Total assets	\$ 66	\$ 66

EMPLOYEE SAVINGS PLANS

Retirement Savings Plan

Duke Energy or its affiliates sponsor, and the Subsidiary Registrants participate in, employee savings plans that cover substantially all U.S. employees. Most employees participate in a matching contribution formula where Duke Energy provides a matching contribution generally equal to 100 percent of employee before-tax and Roth 401(k) contributions of up to 6 percent of eligible pay per pay period (5 percent for Piedmont employees). Dividends on

Duke Energy shares held by the savings plans are charged to retained earnings when declared and shares held in the plans are considered outstanding in the calculation of basic and diluted EPS.

As of January 1, 2014, for new and rehired non-union and certain unionized employees (excludes Piedmont employees until 2018 plan year, discussed below) who are not eligible to participate in Duke Energy's defined benefit plans, an additional employer contribution of 4 percent of eligible pay per pay period, which is subject to a three-year vesting schedule, is provided to the employee's savings plan account.

The following table includes pretax employer matching contributions made by Duke Energy and expensed by the Subsidiary Registrants.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont ^(a)
Years ended December 31,								
2017	\$179	\$61	\$53	\$37	\$16	\$3	\$9	\$ 7
2016	169	57	50	35	15	3	8	—
2015	159	54	48	34	13	3	7	—

(a) Piedmont's pretax employer matching contributions were \$1 million, \$7 million and \$7 million during the two months ended December 31, 2016 and for the years ended October 31, 2016 and 2015, respectively.

Money Purchase Pension Plan

Piedmont sponsors the MPP plan, which is a defined contribution pension plan that allows employees to direct investments and assume risk of investment returns. Under the MPP plan, Piedmont annually deposits a percentage of each participant's pay into an account of the MPP plan. This contribution equals 4 percent of the participant's eligible compensation plus an additional 4 percent of eligible compensation above the Social Security wage base up to the IRS compensation limit. The participant is vested in MPP

plan after three years of service. No contributions were made to the MPP plan during the two months ended December 31, 2016. Piedmont contributed \$2 million to the MPP plan during each of the years ended December 31, 2017, October 31, 2016 and 2015. Effective December 31, 2017, the MPP Plan was merged into the Retirement Savings Plan and the money purchase plan formula was discontinued. Beginning with the 2018 plan year, the former MPP Plan participants are eligible to receive the additional employer contribution under the Retirement Savings Plan, discussed above.

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Combined Notes to Consolidated Financial Statements – (Continued)

22. INCOME TAXES

Tax Act

On December 22, 2017, President Trump signed the Tax Act into law. Among other provisions, the Tax Act lowers the corporate federal income tax rate from 35 percent to 21 percent and eliminates bonus depreciation for regulated utilities, effective January 1, 2018. The Tax Act also could be amended or subject to technical correction, which could change the financial impacts that were recorded at December 31, 2017, or are expected to be recorded in future periods. The FERC and state utility commissions will determine the regulatory treatment of the impacts of the Tax Act for the Subsidiary Registrants. The Duke Energy Registrants' future results of operations, financial condition and cash flows could be adversely impacted by the Tax Act, subsequent amendments or corrections or the actions of the FERC, state utility commissions or credit rating agencies related to the Tax Act. Duke Energy is reviewing orders to address the rate treatment of the Tax Act by each state utility commission in which the Subsidiary Registrants operate. See Note 4 for additional information. Beginning in January 2018, the Subsidiary Registrants will defer the estimated ongoing impacts of the Tax Act that are expected to be returned to customers.

As a result of the Tax Act, Duke Energy revalued its existing deferred tax assets and deferred tax liabilities as of December 31, 2017, to account for the estimated future impact of lower corporate tax rates on these deferred tax amounts. For Duke Energy's regulated operations, where the reduction in the net accumulated deferred income tax (ADIT) liability is expected to be returned to customers in future rates, the net remeasurement has been deferred as a regulatory liability. The regulatory liability for income taxes includes the effect of the reduction of the net deferred tax liability including the tax gross-up of the excess accumulated deferred tax liabilities and the effect of the new tax rate on the previous regulatory asset for income taxes. Excess accumulated deferred income taxes are generally classified as either "protected" or "unprotected" under IRS rules. Protected excess ADIT, resulting from accumulated tax depreciation of public utility property, are required to utilize the average rate assumption method under the IRS normalization rules for determining the timing of the return to customers. The majority of the excess ADIT is related to protected amounts associated with public utility property. See Note 4 for additional information on the Tax Act's impact to the regulatory asset and liability accounts.

On December 22, 2017, the SEC staff issued Staff Accounting Bulletin No. 118, Income Tax Accounting Implications of the Tax Cuts and Jobs Act (SAB 118), which provides guidance on accounting for the Tax Act's impact. SAB 118

provides a measurement period, which in no case should extend beyond one year from the Tax Act enactment date, during which a company acting in good faith may complete the accounting for the impacts of the Tax Act under ASC Topic 740. In accordance with SAB 118, a company must reflect the income tax effects of the Tax Act in the reporting period in which the accounting under ASC Topic 740 is complete. To the extent that a company's accounting for certain income tax effects of the Tax Act is incomplete, a company can determine a reasonable estimate for those effects and record a provisional estimate in the financial statements in the first reporting period in which a reasonable estimate can be determined.

Duke Energy recorded a provisional net tax benefit of \$112 million related to the Tax Act in the period ending December 31, 2017. This net benefit primarily consists of a net benefit of \$534 million due to the remeasurement of deferred tax accounts to reflect the corporate rate reduction impact to net deferred tax balances, a net expense for the establishment of a valuation allowance related to foreign tax credits of \$406 million and a transition tax on previously untaxed earnings and profits on foreign subsidiaries of \$10 million. The majority of Duke Energy's operations are regulated and it is expected that the Subsidiary Registrants will ultimately pass on the savings associated with the amount representing the remeasurement of deferred tax balances related to regulated operations to customers. Duke Energy recorded a regulatory liability of \$8,313 million, representing the revaluation of those deferred tax balances. The Subsidiary Registrants continue to respond to requests from regulators in various jurisdictions to determine the timing and magnitude of savings they will pass on to customers.

The net provisional charge from deferred tax remeasurement and assessment of valuation allowance is based on currently available information and interpretations which are continuing to evolve. Duke Energy continues to analyze additional information and guidance related to certain aspects of the Tax Act, such as limitations on the deductibility of interest and executive compensation, conformity or decoupling by state legislatures in response to the Tax Act, and the final determination of the net deferred tax liabilities subject to the remeasurement. The prospects of supplemental legislation or regulatory processes to address questions that arise because of the Tax Act, or evolving technical interpretations of the tax law, may also cause the final impact from the Tax Act to differ from the estimated amounts. Duke Energy continues to appropriately refine such amounts within the measurement period allowed by SAB 118, which will be completed no later than the fourth quarter of 2018.

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

Income Tax Expense

Components of Income Tax Expense

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current income taxes								
Federal	\$ (247)	\$ 221	\$ (436)	\$ (95)	\$ (188)	\$ (37)	\$ 128	\$ (90)
State	4	20	(5)	2	(11)	2	21	(3)
Foreign	3	—	—	—	—	—	—	—
Total current income taxes	(240)	241	(441)	(93)	(199)	(35)	149	(93)
Deferred income taxes								
Federal	1,344	381	664	378	194	99	138	147
State	102	35	44	10	51	(4)	14	8
Total deferred income taxes ^{(a) (b)}	1,446	416	708	388	245	95	152	155
Investment tax credit amortization	(10)	(5)	(3)	(3)	—	(1)	—	—
Income tax expense from continuing operations	1,196	652	264	292	46	59	301	62
Tax benefit from discontinued operations	(6)	—	—	—	—	—	—	—
Total income tax expense included in Consolidated Statements of Operations	\$ 1,190	\$ 652	\$ 264	\$ 292	\$ 46	\$ 59	\$ 301	\$ 62

(a) Includes utilization of NOL (Net operating loss) carryforwards and tax credit carryforwards of \$428 million at Duke Energy, \$74 million at Progress Energy, \$36 million at Duke Energy Florida, \$17 million at Duke Energy Ohio, \$42 million at Duke Energy Indiana and \$79 million at Piedmont. In addition the total deferred income taxes includes benefits of NOL carryforwards and tax credit carryforwards of \$10 million at Duke Energy Carolinas and \$1 million at Duke Energy Progress.

(b) As a result of the Tax Act, Duke Energy's deferred tax assets and liabilities were revalued as of December 31, 2017. See the Statutory Rate Reconciliation section below for additional information on the Tax Act's impact on income tax expense.

(in millions)	Year Ended December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Duke Energy Indiana
Current income taxes								
Federal	\$ —	\$ 139	\$ 15	\$ (59)	\$ 76	\$ (7)	\$ 7	\$ 7
State	(15)	25	(19)	(25)	22	(13)	6	6
Foreign	2	—	—	—	—	—	—	—
Total current income taxes	(13)	164	(4)	(84)	98	(20)	13	13
Deferred income taxes								
Federal	1,064	430	486	350	199	88	202	202
State	117	45	50	40	25	11	11	11
Total deferred income taxes ^(a)	1,181	475	536	390	224	99	213	213
Investment tax credit amortization	(12)	(5)	(5)	(5)	—	(1)	(1)	(1)
Income tax expense from continuing operations	1,156	634	527	301	322	78	225	225
Tax (benefit) expense from discontinued operations	(30)	—	1	—	—	(36)	—	—
Total income tax expense included in Consolidated Statements of Operations	\$ 1,126	\$ 634	\$ 528	\$ 301	\$ 322	\$ 42	\$ 225	\$ 225

(a) Includes benefits of NOL carryforwards and utilization of NOL and tax credit carryforwards of \$648 million at Duke Energy, \$4 million at Duke Energy Carolinas, \$190 million at Progress Energy, \$60 million at Duke Energy Progress, \$49 million at Duke Energy Florida, \$26 million at Duke Energy Ohio and \$58 million at Duke Energy Indiana.

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Year Ended December 31, 2015						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Current income taxes							
Federal	\$ —	\$ 216	\$ (193)	\$ (56)	\$ 1	\$ (18)	\$ (86)
State	(12)	14	1	(4)	(7)	(1)	(12)
Foreign	4	—	—	—	—	—	—
Total current income taxes	(8)	230	(192)	(60)	(6)	(19)	(98)
Deferred income taxes							
Federal	1,097	345	694	334	290	96	245
State	181	57	27	27	58	5	17
Total deferred income taxes ^(a)	1,278	402	721	361	348	101	262
Investment tax credit amortization	(14)	(5)	(7)	(7)	—	(1)	(1)
Income tax expense from continuing operations	1,256	627	522	294	342	81	163
Tax expense (benefit) from discontinued operations	89	—	(1)	—	—	22	—
Total income tax expense included in Consolidated Statements of Operations	\$ 1,345	\$ 627	\$ 521	\$ 294	\$ 342	\$ 103	\$ 163

(a) Includes utilization of NOL carryforwards and tax credit carryforwards of \$264 million at Duke Energy, \$15 million at Duke Energy Carolinas, \$119 million at Progress Energy, \$21 million at Duke Energy Progress, \$84 million at Duke Energy Florida, \$3 million at Duke Energy Ohio and \$45 million at Duke Energy Indiana.

(in millions)	Piedmont		
	Two Months Ended	Years Ended October 31,	
	December 31, 2016	2016	2015
Current income taxes			
Federal	\$ 4	\$ 27	\$ (1)
State	(2)	12	1
Total current income taxes	2	39	—
Deferred income taxes			
Federal	24	79	78
State	6	6	12
Total deferred income taxes ^{(a)(b)}	30	85	90
Total income tax expense from continuing operations included in Consolidated Statements of Operations	\$ 32	\$ 124	\$ 90

(a) Includes benefits of NOL and tax carryforwards of \$17 million and \$91 million for the two months ended December 31, 2016, and the year ended October 31, 2016, respectively.

(b) Includes benefits and utilization of NOL carryforwards of \$46 million for the year ended October 31, 2015.

Duke Energy Income from Continuing Operations before Income Taxes

(in millions)	Years Ended December 31,		
	2017	2016	2015
Domestic ^(a)	\$ 4,207	\$ 3,689	\$ 3,831
Foreign	59	45	79
Income from continuing operations before income taxes	\$ 4,266	\$ 3,734	\$ 3,910

(a) Includes a \$16 million expense in 2017 related to the Tax Act impact on equity earnings included within Equity in earnings (losses) of unconsolidated affiliates on the Consolidated Statement of Operations.

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Combined Notes to Consolidated Financial Statements – (Continued)

Taxes on Foreign Earnings

In February 2016, Duke Energy announced it had initiated a process to divest the International Disposal Group and, accordingly, no longer intended to indefinitely reinvest post-2014 undistributed foreign earnings. This change in the company's intent, combined with the extension of bonus depreciation by Congress in late 2015, allowed Duke Energy to more efficiently utilize foreign tax credits and reduce U.S. deferred tax liabilities associated with the historical unremitted foreign earnings by approximately \$95 million during the year ended December 31, 2016.

Due to the classification of the International Disposal Group as discontinued operations beginning in the fourth quarter of 2016, income tax amounts related to the International Disposal Group's foreign earnings are presented within (Loss) Income From Discontinued Operations, net of tax on the Consolidated Statements of Operations. In December 2016, Duke Energy closed on the sale of the International Disposal Group in two separate transactions to execute the divestiture. See Note 2 for additional information on the sale.

Statutory Rate Reconciliation

The following tables present a reconciliation of income tax expense at the U.S. federal statutory tax rate to the actual tax expense from continuing operations.

(in millions)	Year Ended December 31, 2017						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Income tax expense, computed at the statutory rate of 35 percent	\$ 1,493	\$ 653	\$ 536	\$ 353	\$ 265	\$ 88	\$ 229
State income tax, net of federal income tax effect	69	36	25	8	26	(1)	23
AFUDC equity income	(81)	(37)	(32)	(17)	(16)	(4)	(8)
Renewable energy production tax credits	(132)	—	—	—	—	—	—
Tax Act ^(a)	(112)	15	(246)	(40)	(226)	(23)	55
Tax true-up	(52)	(24)	(19)	(13)	(7)	(5)	(6)
Other items, net	11	9	—	1	4	4	8
Income tax expense from continuing operations	\$ 1,196	\$ 652	\$ 264	\$ 292	\$ 46	\$ 59	\$ 301
Effective tax rate	28.0%	34.9%	17.2%	29.0%	6.1%	23.4%	46.0%

(a) Amounts primarily include but are not limited to items that are excluded for ratemaking purposes related to abandoned or impaired assets, certain wholesale fixed rate contracts, remeasurement of nonregulated net deferred tax liabilities, Federal net operating losses, and valuation allowance on foreign tax credits.

(in millions)	Year Ended December 31, 2016						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Income tax expense, computed at the statutory rate of 35 percent	\$ 1,307	\$ 630	\$ 548	\$ 315	\$ 306	\$ 95	\$ 212
State income tax, net of federal income tax effect	64	46	20	10	30	(2)	11
AFUDC equity income	(70)	(36)	(26)	(17)	(9)	(2)	(6)
Renewable energy production tax credits	(97)	—	—	—	—	—	—
Audit adjustment	5	3	—	—	—	—	—
Tax true-up	(14)	(14)	(11)	(3)	(9)	(16)	2
Other items, net	(39)	5	(4)	(4)	4	3	6
Income tax expense from continuing operations	\$ 1,156	\$ 634	\$ 527	\$ 301	\$ 322	\$ 78	\$ 225
Effective tax rate	31.0%	35.2%	33.7%	33.4%	36.9%	28.9%	37.1%

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Combined Notes to Consolidated Financial Statements – (Continued)

Year Ended December 31, 2015							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Income tax expense, computed at the statutory rate of 35 percent	\$ 1,369	\$ 598	\$ 555	\$ 302	\$ 330	\$ 81	\$ 168
State income tax, net of federal income tax effect	109	46	18	15	33	2	2
AFUDC equity income	(58)	(34)	(19)	(17)	(3)	(1)	(4)
Renewable energy production tax credits	(72)	—	(1)	—	—	—	—
Audit adjustment	(22)	—	(23)	1	(24)	—	—
Tax true-up	2	2	(3)	(4)	2	(5)	(9)
Other items, net	(72)	15	(5)	(3)	4	4	6
Income tax expense from continuing operations	\$ 1,256	\$ 627	\$ 522	\$ 294	\$ 342	\$ 81	\$ 163
Effective tax rate	32.1%	36.7%	32.9%	34.2%	36.3%	35.2%	34.0%

Piedmont			
(in millions)	Two Months Ended	Years Ended October 31,	
	December 31, 2016	2016	2015
Income tax expense, computed at the statutory rate of 35 percent	\$ 30	\$ 111	\$ 79
State income tax, net of federal income tax effect	1	11	9
Other items, net	1	2	2
Income tax expense from continuing operations	\$ 32	\$ 124	\$ 90
Effective tax rate	37.2%	39.1%	39.7%

Valuation allowances have been established for certain state NOL carryforwards and state income tax credits that reduce deferred tax assets to an amount that will be realized on a more-likely-than-not basis. The net change in the total valuation allowance is included in the State income tax, net of federal income tax effect in the above tables.

DEFERRED TAXES

Net Deferred Income Tax Liability Components

December 31, 2017								
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Deferred credits and other liabilities	\$ 143	\$ 33	\$ 78	\$ 23	\$ 49	\$ 11	\$ 6	\$ (5)
Capital lease obligations	49	14	—	—	—	—	2	—
Pension, post-retirement and other employee benefits	295	(17)	111	44	60	14	18	(4)
Progress Energy merger purchase accounting adjustments ^(a)	536	—	—	—	—	—	—	—
Tax credits and NOL carryforwards	4,527	234	402	156	143	25	216	70
Regulatory liabilities and deferred credits	—	222	—	—	—	65	—	61
Investments and other assets	—	—	—	—	—	—	1	18
Other	73	10	1	4	—	—	—	—
Valuation allowance	(519)	—	(14)	—	—	—	—	—
Total deferred income tax assets	5,104	496	578	227	252	115	243	140
Investments and other assets	(1,419)	(849)	(470)	(289)	(187)	—	(14)	—
Accelerated depreciation rates	(9,216)	(3,060)	(2,803)	(1,583)	(1,257)	(896)	(966)	(697)
Regulatory assets and deferred debits, net	(1,090)	—	(807)	(238)	(569)	—	(188)	—
Other	—	—	—	—	—	—	—	(7)
Total deferred income tax liabilities	(11,725)	(3,909)	(4,080)	(2,110)	(2,013)	(896)	(1,168)	(704)
Net deferred income tax liabilities	\$ (6,621)	\$ (3,413)	\$ (3,502)	\$ (1,883)	\$ (1,761)	\$ (781)	\$ (925)	\$ (564)

(a) Primarily related to capital lease obligations and debt fair value adjustments.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

As noted above, as a result of the Tax Act, Duke Energy revalued its existing deferred tax assets and liabilities as of December 31, 2017, to account for the estimated future impact of lower corporate tax rates on these deferred amounts. The following table shows the decrease reflected in the net deferred income tax liabilities balance above:

(in millions)	December 31, 2017
Duke Energy	\$ 8,982
Duke Energy Carolinas	3,454
Progress Energy	3,282
Duke Energy Progress	1,882
Duke Energy Florida	1,420
Duke Energy Ohio	771
Duke Energy Indiana	1,053
Piedmont	521

The following table presents the expiration of tax credits and NOL carryforwards.

(in millions)	December 31, 2017	
	Amount	Expiration Year
Investment tax credits	\$ 1,406	2024 – 2037
Alternative minimum tax credits	1,147	Refundable by 2021
Federal NOL carryforwards	393	2022 – 2036
State NOL carryforwards and credits ^(a)	296	2018 – 2037
Foreign NOL carryforwards ^(b)	13	2027 – 2036
Foreign Tax Credits ^(c)	1,272	2024 – 2027
Total tax credits and NOL carryforwards	\$ 4,527	

(a) A valuation allowance of \$90 million has been recorded on the state NOL carryforwards, as presented in the Net Deferred Income Tax Liability Components table.

(b) A valuation allowance of \$13 million has been recorded on the foreign NOL carryforwards, as presented in the Net Deferred Income Tax Liability Components table.

(c) A valuation allowance of \$416 million has been recorded on the foreign tax credits, as presented in the Net Deferred Income Tax Liability Components table.

December 31, 2016								
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Deferred credits and other liabilities	\$ 382	\$ 66	\$ 126	\$ 40	\$ 93	\$ 21	\$ 4	\$ 71
Capital lease obligations	60	8	—	—	—	—	1	—
Pension, post-retirement and other employee benefits	561	16	199	91	96	22	37	10
Progress Energy merger purchase accounting adjustments ^(a)	918	—	—	—	—	—	—	—
Tax credits and NOL carryforwards	4,682	192	1,165	222	232	49	278	192
Investments and other assets	—	—	—	—	—	3	—	—
Other	205	16	35	8	—	5	9	45
Valuation allowance	(96)	—	(12)	—	—	—	—	(1)
Total deferred income tax assets	6,712	298	1,513	361	421	100	329	317
Investments and other assets	(1,892)	(1,149)	(597)	(313)	(297)	—	(21)	(21)
Accelerated depreciation rates	(14,872)	(4,664)	(4,490)	(2,479)	(2,038)	(1,404)	(1,938)	(1,080)
Regulatory assets and deferred debits, net	(4,103)	(1,029)	(1,672)	(892)	(780)	(139)	(270)	(147)
Total deferred income tax liabilities	(20,867)	(6,842)	(6,759)	(3,684)	(3,115)	(1,543)	(2,229)	(1,248)
Net deferred income tax liabilities	\$ (14,155)	\$ (6,544)	\$ (5,246)	\$ (3,323)	\$ (2,694)	\$ (1,443)	\$ (1,900)	\$ (931)

(a) Primarily related to capital lease obligations and debt fair value adjustments.

On August 6, 2015, pursuant to N.C. Gen. Stat. 105-130.3C, the North Carolina Department of Revenue announced the North Carolina corporate income tax rate would be reduced from a statutory rate of 5.0 percent to 4.0 percent beginning January 1, 2016. Duke Energy and Piedmont recorded net reductions of approximately \$95 million and \$18 million to their North Carolina deferred tax liabilities in the third quarter of 2015. The significant majority of

these deferred tax liability reductions were offset by recording a regulatory liability pending NCUC determination of the disposition of amounts related to Duke Energy Carolinas, Duke Energy Progress and Piedmont. The impact did not have a significant impact on the financial position, results of operation, or cash flows of Duke Energy, Duke Energy Carolinas, Progress Energy or Duke Energy Progress.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

On August 4, 2016, pursuant to N.C. Gen. Stat. 105-130.3C, the North Carolina Department of Revenue announced the North Carolina corporate income tax rate would be reduced from a statutory rate of 4.0 percent to 3.0 percent beginning January 1, 2017. Duke Energy and Piedmont recorded net reductions of approximately \$80 million and \$16 million to their North Carolina deferred tax liabilities in the third quarter of 2016. The significant majority of this deferred tax liability reduction was offset by recording a regulatory liability pending NCUC determination of the disposition of amounts related to Duke Energy Carolinas, Duke Energy Progress and Piedmont. The impact did not have a significant impact on the financial position, results of operation, or cash flows of Duke Energy, Duke Energy Carolinas, Progress Energy or Duke Energy Progress.

On June 28, 2017, the North Carolina General Assembly amended N.C. Gen. Stat. 105-130.3, reducing the North Carolina corporate income tax rate from a statutory rate of 3.0 percent to 2.5 percent beginning January 1, 2019. Duke Energy recorded a net reduction of approximately \$55 million to their North Carolina deferred tax liabilities in the second quarter of 2017. The significant majority of this deferred tax liability reduction was offset by recording a regulatory liability pending NCUC determination of the disposition of amounts related to Duke Energy Carolinas, Duke Energy Progress and Piedmont. The impact did not have a significant impact on the financial position, results of operation or cash flows of Duke Energy, Duke Energy Carolinas, Progress Energy or Duke Energy Progress.

UNRECOGNIZED TAX BENEFITS

The following tables present changes to unrecognized tax benefits.

(in millions)	Year Ended December 31, 2017						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana Piedmont
Unrecognized tax benefits – January 1	\$ 17	\$ 1	\$ 2	\$ 2	\$ 4	\$ 4	\$ —
Unrecognized tax benefits increases (decreases)							
Gross increases – tax positions in prior periods	12	4	3	3	1	1	1
Gross decreases – tax positions in prior periods	(4)	—	—	—	—	(4)	—
Total changes	8	4	3	3	1	(3)	1
Unrecognized tax benefits – December 31	\$ 25	\$ 5	\$ 5	\$ 5	\$ 5	\$ 1	\$ 1

(in millions)	Year Ended December 31, 2016						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Unrecognized tax benefits – January 1	\$ 88	\$ 72	\$ 1	\$ 3	\$ —	\$ —	\$ 1
Unrecognized tax benefits increases (decreases)							
Gross increases – tax positions in prior periods	—	—	—	—	4	4	—
Gross decreases – tax positions in prior periods	(4)	(4)	(1)	(1)	—	—	—
Decreases due to settlements	(68)	(67)	—	—	—	—	(1)
Reduction due to lapse of statute of limitations	1	—	2	—	—	—	—
Total changes	(71)	(71)	1	(1)	4	4	(1)
Unrecognized tax benefits – December 31	\$ 17	\$ 1	\$ 2	\$ 2	\$ 4	\$ 4	\$ —

(in millions)	Year Ended December 31, 2015					
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Indiana
Unrecognized tax benefits – January 1	\$ 213	\$ 160	\$ 32	\$ 23	\$ 8	\$ 1
Unrecognized tax benefits increases (decreases)						
Gross increases – tax positions in prior periods	—	—	1	1	—	—
Gross decreases – tax positions in prior periods	(48)	(45)	—	—	—	—
Decreases due to settlements	(45)	(43)	—	—	—	—
Reduction due to lapse of statute of limitations	(32)	—	(32)	(21)	(8)	—
Total changes	(125)	(88)	(31)	(20)	(8)	—
Unrecognized tax benefits – December 31	\$ 88	\$ 72	\$ 1	\$ 3	\$ —	\$ 1

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

The following table includes additional information regarding the Duke Energy Registrants' unrecognized tax benefits at December 31, 2017. During the first quarter of 2018, Duke Energy recognized an approximate \$8 million reduction and Duke Energy Carolinas recognized an approximate \$1 million reduction in unrecognized tax benefits. No additional material reductions are expected in the next 12 months.

(in millions)	December 31, 2017						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana Piedmont
Amount that if recognized, would affect the effective tax rate or regulatory liability ^(a)	\$15	\$ 4	\$ 7	\$ 5	\$ 1	\$ 1	\$ 1 \$ 3
Amount that if recognized, would be recorded as a component of discontinued operations	7	—	—	—	—	2	— —

(a) Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Indiana and Piedmont are unable to estimate the specific amounts that would affect the effective tax rate versus the regulatory liability.

OTHER TAX MATTERS

The following tables include interest recognized in the Consolidated Statements of Operations and the Consolidated Balance Sheets.

(in millions)	Year Ended December 31, 2017				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Net interest income recognized related to income taxes	\$ —	\$ —	\$ 1	\$ —	\$ 1
Net interest expense recognized related to income taxes	—	2	—	—	—
Interest payable related to income taxes	5	25	1	1	—

(in millions)	Year Ended December 31, 2016				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Net interest income recognized related to income taxes	\$ —	\$ —	\$ 1	\$ —	\$ 2
Net interest expense recognized related to income taxes	—	7	—	—	—
Interest payable related to income taxes	4	23	1	1	—

(in millions)	Year Ended December 31, 2015					
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Indiana
Net interest income recognized related to income taxes	\$ 12	\$ —	\$ 2	\$ 2	\$ 1	\$ 1
Net interest expense recognized related to income taxes	—	1	—	—	—	—
Interest receivable related to income taxes	3	—	—	—	—	3
Interest payable related to income taxes	—	14	—	1	—	—

Piedmont recognized \$1 million in net interest income recognized related to income taxes in the Consolidated Statements of Operations for the year ended October 31, 2016.

Duke Energy and its subsidiaries are no longer subject to U.S. federal examination for years before 2015. With few exceptions, Duke Energy and its subsidiaries are no longer subject to state, local or non-U.S. income tax examinations by tax authorities for years before 2015.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

23. OTHER INCOME AND EXPENSES, NET

The components of Other income and expenses, net on the Consolidated Statements of Operations are as follows. Amounts for Piedmont were not material.

(in millions)	Year Ended December 31, 2017						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Interest income	\$ 13	\$ 2	\$ 6	\$ 2	\$ 5	\$ 6	\$ 8
AFUDC equity	237	106	92	47	45	11	28
Post in-service equity returns	40	28	12	12	—	—	—
Nonoperating income, other	62	3	18	4	11	—	1
Other income and expense, net	\$ 352	\$ 139	\$ 128	\$ 65	\$ 61	\$ 17	\$ 37

(in millions)	Year Ended December 31, 2016						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Interest income	\$ 21	\$ 4	\$ 4	\$ 3	\$ 2	\$ 5	\$ 6
AFUDC equity	200	102	76	50	26	6	16
Post in-service equity returns	67	55	12	12	—	—	—
Nonoperating income (expense), other	36	1	22	6	16	(2)	—
Other income and expense, net	\$ 324	\$ 162	\$ 114	\$ 71	\$ 44	\$ 9	\$ 22

(in millions)	Year Ended December 31, 2015						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Interest income	\$ 20	\$ 2	\$ 4	\$ 2	\$ 2	\$ 4	\$ 6
AFUDC equity	164	96	54	47	7	3	11
Post in-service equity returns	73	60	13	13	—	—	—
Nonoperating income (expense), other	33	2	26	9	15	(1)	(6)
Other income and expense, net	\$ 290	\$ 160	\$ 97	\$ 71	\$ 24	\$ 6	\$ 11

24. SUBSEQUENT EVENTS

For information on subsequent events related to regulatory matters, commitments and contingencies, debt and credit facilities, investments in unconsolidated affiliates, variable interest entities and common stock see Notes 4, 5, 6, 12, 17 and 18, respectively.

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Combined Notes to Consolidated Financial Statements – (Continued)

25. QUARTERLY FINANCIAL DATA (UNAUDITED)

DUKE ENERGY

Quarterly EPS amounts may not sum to the full-year total due to changes in the weighted average number of common shares outstanding and rounding.

(in millions, except per share data)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Operating revenues	\$5,729	\$5,555	\$6,482	\$5,799	\$23,565
Operating income	1,437	1,387	1,695	1,262	5,781
Income from continuing operations	717	691	957	705	3,070
Loss from discontinued operations, net of tax	—	(2)	(2)	(2)	(6)
Net income	717	689	955	703	3,064
Net income attributable to Duke Energy Corporation	716	686	954	703	3,059
Earnings per share:					
Income from continuing operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ 1.02	\$ 0.98	\$ 1.36	\$ 1.00	\$ 4.37
Diluted	\$ 1.02	\$ 0.98	\$ 1.36	\$ 1.00	\$ 4.37
Loss from discontinued operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ —	\$ —	\$ —	\$ —	\$ (0.01)
Diluted	\$ —	\$ —	\$ —	\$ —	\$ (0.01)
Net income attributable to Duke Energy Corporation common stockholders					
Basic	\$ 1.02	\$ 0.98	\$ 1.36	\$ 1.00	\$ 4.36
Diluted	\$ 1.02	\$ 0.98	\$ 1.36	\$ 1.00	\$ 4.36
2016					
Operating revenues	\$5,377	\$5,213	\$6,576	\$5,577	\$22,743
Operating income	1,240	1,259	1,954	888	5,341
Income from continuing operations	577	624	1,001	376	2,578
Income (Loss) from discontinued operations, net of tax	122	(112)	180	(598)	(408)
Net income (loss)	699	512	1,181	(222)	2,170
Net income (loss) attributable to Duke Energy Corporation	694	509	1,176	(227)	2,152
Earnings per share:					
Income from continuing operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ 0.83	\$ 0.90	\$ 1.44	\$ 0.53	\$ 3.71
Diluted	\$ 0.83	\$ 0.90	\$ 1.44	\$ 0.53	\$ 3.71
Income (Loss) from discontinued operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ 0.18	\$ (0.16)	\$ 0.26	\$ (0.86)	\$ (0.60)
Diluted	\$ 0.18	\$ (0.16)	\$ 0.26	\$ (0.86)	\$ (0.60)
Net income (loss) attributable to Duke Energy Corporation common stockholders					
Basic	\$ 1.01	\$ 0.74	\$ 1.70	\$ (0.33)	\$ 3.11
Diluted	\$ 1.01	\$ 0.74	\$ 1.70	\$ (0.33)	\$ 3.11

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (16)	\$ (30)	\$ (23)	\$ (34)	\$ (103)
Regulatory Settlements (see Note 4)	—	—	(135)	(23)	(158)
Commercial Renewables Impairments (see Notes 10 and 11)	—	—	(84)	(18)	(102)
Impacts of the Tax Act (see Note 22)	—	—	—	102	102
Total	\$ (16)	\$ (30)	\$ (242)	\$ 27	\$ (261)
2016					
Costs to Achieve Mergers (see Note 2)	\$ (120)	\$ (111)	\$ (84)	\$ (208)	\$ (523)
Commercial Renewables Impairment (see Note 12)	—	—	(71)	—	(71)
Loss on Sale of International Disposal Group (see Note 2)	—	—	—	(514)	(514)
Impairment of Assets in Central America (see Note 2)	—	(194)	—	—	(194)
Cost Savings Initiatives (see Note 19)	(20)	(24)	(19)	(29)	(92)
Total	\$ (140)	\$ (329)	\$ (174)	\$ (751)	\$ (1,394)

DUKE ENERGY CAROLINAS

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Operating revenues	\$ 1,716	\$ 1,729	\$ 2,136	\$ 1,721	\$ 7,302
Operating income	484	485	777	403	2,149
Net income	270	273	466	205	1,214
2016					
Operating revenues	\$ 1,740	\$ 1,675	\$ 2,226	\$ 1,681	\$ 7,322
Operating income	481	464	815	302	2,062
Net income	271	261	494	140	1,166

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (4)	\$ (6)	\$ (5)	\$ (5)	\$ (20)
Impacts of the Tax Act (see Note 22)	—	—	—	(15)	(15)
Total	\$ (4)	\$ (6)	\$ (5)	\$ (20)	\$ (35)
2016					
Costs to Achieve Mergers	\$ (11)	\$ (12)	\$ (13)	\$ (68)	\$ (104)
Cost Savings Initiatives (see Note 19)	(10)	(10)	(8)	(11)	(39)
Total	\$ (21)	\$ (22)	\$ (21)	\$ (79)	\$ (143)

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

PROGRESS ENERGY

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Operating revenues	\$ 2,179	\$ 2,392	\$ 2,864	\$ 2,348	\$ 9,783
Operating income	487	591	657	493	2,228
Net income	201	277	343	447	1,268
Net income attributable to Parent	199	274	341	444	1,258
2016					
Operating revenues	\$ 2,332	\$ 2,348	\$ 2,965	\$ 2,208	\$ 9,853
Operating income	475	560	814	292	2,141
Income from continuing operations	212	274	449	104	1,039
Net income	212	274	449	106	1,041
Net income attributable to Parent	209	272	446	104	1,031

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (4)	\$ (7)	\$ (6)	\$ (6)	\$ (23)
Regulatory Settlements (see Note 4)	—	—	(135)	(23)	(158)
Impacts of the Tax Act (see Note 22)	—	—	—	246	246
Total	\$ (4)	\$ (7)	\$ (141)	\$ 217	\$ 65
2016					
Costs to Achieve Mergers	\$ (7)	\$ (8)	\$ (10)	\$ (44)	\$ (69)
Cost Savings Initiatives (see Note 19)	(8)	(8)	(10)	(14)	(40)
Total	\$ (15)	\$ (16)	\$ (20)	\$ (58)	\$ (109)

DUKE ENERGY PROGRESS

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Operating revenues	\$ 1,219	\$ 1,199	\$ 1,460	\$ 1,251	\$ 5,129
Operating income	286	282	411	256	1,235
Net income	147	154	246	168	715
2016					
Operating revenues	\$ 1,307	\$ 1,213	\$ 1,583	\$ 1,174	\$ 5,277
Operating income	258	255	438	135	1,086
Net income	137	131	271	60	599

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (2)	\$ (4)	\$ (4)	\$ (4)	\$ (14)
Regulatory Settlements (see Note 4)	—	—	—	(23)	(23)
Impacts of the Tax Act (see Note 22)	—	—	—	40	40
Total	\$ (2)	\$ (4)	\$ (4)	\$ 13	\$ 3
2016					
Costs to Achieve Mergers	\$ (5)	\$ (5)	\$ (6)	\$ (40)	\$ (56)
Cost Savings Initiatives (see Note 19)	(5)	(5)	(7)	(6)	(23)
Total	\$ (10)	\$ (10)	\$ (13)	\$ (46)	\$ (79)

DUKE ENERGY FLORIDA

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Operating revenues	\$ 959	\$ 1,191	\$ 1,401	\$ 1,095	\$ 4,646
Operating income	196	306	240	234	976
Net income	90	158	120	344	712
2016					
Operating revenues	\$ 1,024	\$ 1,133	\$ 1,381	\$ 1,030	\$ 4,568
Operating income	213	300	373	155	1,041
Net income	110	171	206	64	551

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (2)	\$ (3)	\$ (2)	\$ (2)	\$ (9)
Regulatory Settlements (see Note 4)	—	—	(135)	—	(135)
Impacts of the Tax Act (see Note 22)	—	—	—	226	226
Total	\$ (2)	\$ (3)	\$ (137)	\$ 224	\$ 82
2016					
Costs to Achieve Mergers	\$ (2)	\$ (3)	\$ (4)	\$ (4)	\$ (13)
Cost Savings Initiatives (see Note 19)	(2)	(3)	(3)	(9)	(17)
Total	\$ (4)	\$ (6)	\$ (7)	\$ (13)	\$ (30)

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PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

DUKE ENERGY OHIO

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Operating revenues	\$ 518	\$ 437	\$ 471	\$ 497	\$ 1,923
Operating income	83	65	102	76	326
Loss from discontinued operations, net of tax	—	—	(1)	—	(1)
Net income	42	30	55	65	192
2016					
Operating revenues	\$ 516	\$ 428	\$ 489	\$ 511	\$ 1,944
Operating income	96	55	106	90	347
Income from discontinued operations, net of tax	2	—	34	—	36
Net income	59	23	89	57	228

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (1)	\$ (1)	\$ (2)	\$ (2)	\$ (6)
Impacts of the Tax Act (see Note 22)	—	—	—	23	23
Total	\$ (1)	\$ (1)	\$ (2)	\$ 21	\$ 17
2016					
Costs to Achieve Mergers	\$ (1)	\$ (1)	\$ (2)	\$ (2)	\$ (6)
Cost Savings Initiatives (see Note 19)	(1)	(1)	—	(1)	(3)
Total	\$ (2)	\$ (2)	\$ (2)	\$ (3)	\$ (9)

DUKE ENERGY INDIANA

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Operating revenues	\$ 758	\$ 742	\$ 802	\$ 745	\$ 3,047
Operating income	186	210	230	170	796
Net income	91	106	121	36	354
2016					
Operating revenues	\$ 714	\$ 702	\$ 809	\$ 733	\$ 2,958
Operating income	176	174	239	176	765
Net income	95	85	129	72	381

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (1)	\$ (2)	\$ (2)	\$ (1)	\$ (6)
Impacts of the Tax Act (see Note 22)	—	—	—	(55)	(55)
Total	\$ (1)	\$ (2)	\$ (2)	\$ (56)	\$ (61)
2016					
Costs to Achieve Mergers	\$ (1)	\$ (2)	\$ (3)	\$ (3)	\$ (9)
Cost Savings Initiatives (see Note 19)	(1)	(4)	(1)	(1)	(7)
Total	\$ (2)	\$ (6)	\$ (4)	\$ (4)	\$ (16)

PIEDMONT

The following tables include data for Piedmont's fiscal years ending December 31, 2017, and October 31, 2016.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Operating revenues	\$ 500	\$ 201	\$ 183	\$ 444	\$ 1,328
Operating income (loss)	170	5	(4)	115	286
Net income (loss)	95	(8)	(11)	63	139
2016					
Operating revenues	\$ 464	\$ 353	\$ 160	\$ 172	\$ 1,149
Operating income (loss)	171	104	—	(50)	225
Net income (loss)	98	63	(7)	39	193

For the two months ended December 31, 2016, Piedmont's operating revenues, operating income, and net income were \$322 million, \$96 million and \$54 million, respectively.

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (6)	\$ (13)	\$ (8)	\$ (19)	\$ (46)
Impacts of the Tax Act (see Note 22)	—	—	—	2	2
Total	\$ (6)	\$ (13)	\$ (8)	\$ (17)	\$ (44)
2016					
Costs to Achieve Mergers	\$ (6)	\$ (2)	\$ (1)	\$ (53)	\$ (62)

For the two months ended December 31, 2016, Piedmont's costs to achieve merger were \$7 million.

PART II

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

ITEM 9A. CONTROLS AND PROCEDURES

Disclosure Controls and Procedures

Disclosure controls and procedures are controls and other procedures that are designed to ensure that information required to be disclosed by the Duke Energy Registrants in the reports they file or submit under the Securities Exchange Act of 1934 (Exchange Act) is recorded, processed, summarized and reported, within the time periods specified by the SEC rules and forms.

Disclosure controls and procedures include, without limitation, controls and procedures designed to provide reasonable assurance that information required to be disclosed by the Duke Energy Registrants in the reports they file or submit under the Exchange Act is accumulated and communicated to management, including the Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.

Under the supervision and with the participation of management, including the Chief Executive Officer and Chief Financial Officer, the Duke Energy Registrants have evaluated the effectiveness of their disclosure controls and procedures (as such term is defined in Rule 13a-15(e) and 15d-15(e) under the Exchange Act) as of December 31, 2017, and, based upon this evaluation, the Chief Executive Officer and Chief Financial Officer have concluded that these controls and procedures are effective in providing reasonable assurance of compliance.

Changes in Internal Control Over Financial Reporting

Under the supervision and with the participation of management, including the Chief Executive Officer and Chief Financial Officer, the Duke Energy Registrants have evaluated changes in internal control over financial reporting (as such term is defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) that occurred during the fiscal quarter ended December 31, 2017, and have concluded no change has materially affected, or is reasonably likely to materially affect, internal control over financial reporting.

Management's Annual Report On Internal Control Over Financial Reporting

The Duke Energy Registrants' management is responsible for establishing and maintaining an adequate system of internal control over financial reporting, as such term is defined in Exchange Act Rules 13a-15(f) and 15d-15(f). The Duke Energy Registrants' internal control system was designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes, in accordance with generally accepted accounting principles in the United States. Due to inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness of the internal control over financial reporting to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with policies and procedures may deteriorate.

The Duke Energy Registrants' management, including their Chief Executive Officer and Chief Financial Officer, has conducted an evaluation of the effectiveness of their internal control over financial reporting as of December 31, 2017, based on the framework in the Internal Control – Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on that evaluation, management concluded that its internal controls over financial reporting were effective as of December 31, 2017.

Deloitte & Touche LLP, Duke Energy's independent registered public accounting firm, has issued an attestation report on the effectiveness of Duke Energy's internal control over financial reporting. This attestation report is included in Part II, Item 8 of this Form 10-K. This report is not applicable to the Subsidiary Registrants as these companies are not accelerated or large accelerated filers.

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholders and the Board of Directors of Duke Energy Corporation

Opinion on Internal Control over Financial Reporting

We have audited the internal control over financial reporting of Duke Energy Corporation and subsidiaries (the "Company") as of December 31, 2017, based on criteria established in *Internal Control – Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2017, based on criteria established in *Internal Control – Integrated Framework (2013)* issued by COSO.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated balance sheets as of December 31, 2017, the related consolidated statements of operations, comprehensive income, changes in equity, and cash flows, for the period ended December 31, 2017, and the related notes of the Company and our report dated February 21, 2018, expressed an unqualified opinion on those financial statements.

Basis for Opinion

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying *Management's Annual Report On Internal Control Over Financial Reporting*. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 21, 2018

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

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PART III

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

Information regarding Duke Energy's Executive Officers is set forth in Part I, Item 1, "Business – Executive Officers of the Registrants," in this Annual Report on Form 10-K. Duke Energy will provide information that is responsive to the remainder of this Item 10 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 10 by reference.

ITEM 11. EXECUTIVE COMPENSATION

Duke Energy will provide information that is responsive to this Item 11 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 11 by reference.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

Equity Compensation Plan Information

The following table shows information as of December 31, 2017, about securities to be issued upon exercise of outstanding options, warrants and rights under Duke Energy's equity compensation plans, along with the weighted-average exercise price of the outstanding options, warrants and rights and the number of securities remaining available for future issuance under the plans.

Plan Category	Number of securities to be issued upon exercise of outstanding options, warrants and rights (a)	Weighted average exercise price of outstanding options, warrants and rights (b) ⁽¹⁾	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a)) (c)
Equity compensation plans approved by security holders	3,566,563 ⁽²⁾	n/a	7,314,882 ⁽³⁾
Equity compensation plans not approved by security holders	191,394 ⁽⁴⁾	n/a	n/a ⁽⁵⁾
Total	3,757,957	n/a	7,314,882

(1) As of December 31, 2017, no options were outstanding under equity compensation plans.

(2) Includes restricted stock units and performance shares (assuming the maximum payout level) granted under the Duke Energy Corporation 2010 Long-Term Incentive Plan or the Duke Energy Corporation 2015 Long-Term Incentive Plan, as well as shares that could be payable with respect to certain compensation deferred under the Duke Energy Corporation Executive Savings Plan (Executive Savings Plan) or the Duke Energy Corporation Directors' Savings Plan (Directors' Savings Plan).

(3) Includes shares remaining available for issuance pursuant to stock awards under the Duke Energy Corporation 2015 Long-Term Incentive Plan.

(4) Includes shares that could be payable with respect to certain compensation deferred under the Executive Savings Plan or under the Directors' Savings Plan, each of which is a nonqualified deferred compensation plan described in more detail below. Upon the acquisition of Piedmont Natural Gas Company, Inc., performance shares granted prior to such acquisition under the Piedmont Natural Gas Company, Inc. Incentive Compensation Plan were converted into restricted stock units payable in shares of Duke Energy common stock. As of December 31, 2017, 45,173 such restricted stock units were outstanding. Following the acquisition, no further stock awards were permitted to be granted under the Piedmont Natural Gas Company, Inc. Incentive Compensation Plan. These converted awards are not listed in the table above.

(5) The number of shares remaining available for future issuance under equity compensation plans not approved by security holders cannot be determined because it is based on the amount of future voluntary deferrals, if any, under the Executive Savings Plan and the Directors' Savings Plan.

Under the Executive Savings Plan, participants can elect to defer a portion of their base salary and short-term incentive compensation. Participants also receive a company matching contribution in excess of the contribution limits prescribed by the Internal Revenue Code under the Duke Energy Retirement Savings Plan, which is the 401(k) plan in which employees are generally eligible to participate. In general, payments are made following termination of employment or death in the form of a lump sum or installments, as selected by the participant. Participants may direct the deemed investment of base salary deferrals, short-term incentive compensation deferrals and matching contributions among investment options available under the Duke Energy Retirement Savings Plan, including the Duke Energy Common Stock Fund. Participants may change their investment elections on a daily basis. Deferrals of equity awards are credited with earnings and losses based on the performance

of the Duke Energy Common Stock Fund. The benefits payable under the plan are unfunded and subject to the claims of Duke Energy's creditors.

Under the Directors' Savings Plan, outside directors may elect to defer all or a portion of their annual compensation, generally consisting of retainers. Deferred amounts are credited to an unfunded account, the balance of which is adjusted for the performance of phantom investment options, including the Duke Energy common stock fund, as elected by the director, and generally are paid when the director terminates his or her service from the Board of Directors.

Duke Energy will provide additional information that is responsive to this Item 12 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 12 by reference.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE

Duke Energy will provide information that is responsive to this Item 13 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 13 by reference.

PART III

ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

Deloitte & Touche LLP and the member firms of Deloitte Touche Tohmatsu and their respective affiliates (collectively, Deloitte) provided professional services to the Duke Energy Registrants. The following tables present the Deloitte fees for services rendered to the Duke Energy Registrants during 2017 and 2016.

	Year Ended December 31, 2017							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Types of Fees								
Audit Fees ^(a)	\$ 13.6	\$ 4.7	\$ 5.6	\$ 3.1	\$ 2.4	\$ 0.8	\$ 1.4	\$ 0.8
Audit-Related Fees ^(b)	0.2	—	—	—	—	—	—	—
Tax Fees ^(c)	1.7	0.6	0.1	0.4	—	0.1	0.1	0.1
Other Fees ^(d)	0.1	—	—	—	—	—	—	—
Total Fees	\$ 15.6	\$ 5.3	\$ 5.7	\$ 3.5	\$ 2.4	\$ 0.9	\$ 1.5	\$ 0.9

(in millions)	Year Ended December 31, 2016						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Types of Fees							
Audit Fees ^(a)	\$ 13.6	\$ 4.8	\$ 5.2	\$ 3.0	\$ 2.2	\$ 0.8	\$ 1.4
Audit-Related Fees ^(b)	0.7	—	—	—	—	—	—
Tax Fees ^(c)	0.4	0.1	0.1	0.1	—	—	0.1
Other Fees ^(d)	0.2	0.1	0.1	0.1	—	—	—
Total Fees	\$ 14.9	\$ 5.0	\$ 5.4	\$ 3.2	\$ 2.2	\$ 0.8	\$ 1.5

(in millions)	Piedmont ^(e)	
	Two Months Ended	Year Ended October 31,
	December 31, 2016	2016
Types of Fees		
Audit Fees ^(a)	\$ 0.6	\$ 1.3
Audit-Related Fees ^(b)	—	0.1
Total Fees	\$ 0.6	\$ 1.4

- (a) Audit Fees are fees billed, or expected to be billed, by Deloitte for professional services for the financial statement audits, audit of the Duke Energy Registrants' financial statements included in the Annual Report on Form 10-K, reviews of financial statements included in Quarterly Reports on Form 10-Q, and services associated with securities filings such as comfort letters and consents.
- (b) Audit-Related Fees are fees billed, or expected to be billed, by Deloitte for assurance and related services that are reasonably related to the performance of an audit or review of financial statements, including statutory reporting requirements.
- (c) Tax Fees are fees billed by Deloitte for tax return assistance and preparation, tax examination assistance and professional services related to tax planning and tax strategy.
- (d) Other Fees are billed by Deloitte for attendance at Deloitte-sponsored conferences and access to Deloitte research tools and subscription services. In 2016, Other Fees also included non-audit fees related to consulting services.
- (e) Includes all accounting fees and services paid prior to and subsequent to the acquisition. Prior to the acquisition, Piedmont's Audit Committee preapproved all services provided by the independent auditor.

To safeguard the continued independence of the independent auditor, the Audit Committee of the Board of Directors (Audit Committee) of Duke Energy adopted a policy that all services provided by the independent auditor require preapproval by the Audit Committee. Pursuant to the policy, certain audit services, audit-related services, tax services and other services have

been specifically preapproved up to fee limits. In the event the cost of any of these services may exceed the fee limits, the Audit Committee must specifically approve the service. All services performed in 2017 and 2016 by the independent accountant were approved by the Audit Committee pursuant to the preapproval policy.

PART IV

ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

(a) Consolidated Financial Statements, Supplemental Financial Data and Supplemental Schedules included in Part II of this annual report are as follows:

Duke Energy Corporation

Consolidated Financial Statements
Consolidated Statements of Operations for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Statements of Comprehensive Income for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Balance Sheets as of December 31, 2017, and 2016
Consolidated Statements of Cash Flows for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2017, 2016 and 2015
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 25 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Carolinas, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Balance Sheets as of December 31, 2017, and 2016
Consolidated Statements of Cash Flows for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2017, 2016 and 2015
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 25 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Progress Energy, Inc.

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Balance Sheets as of December 31, 2017, and 2016
Consolidated Statements of Cash Flows for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2017, 2016 and 2015
Notes to the Consolidated Financial Statements
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All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Progress, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Balance Sheets as of December 31, 2017, and 2016
Consolidated Statements of Cash Flows for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2017, 2016 and 2015
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 25 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Florida, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Balance Sheets as of December 31, 2017, and 2016
Consolidated Statements of Cash Flows for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2017, 2016 and 2015
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 25 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

PART IV

Duke Energy Ohio, Inc.

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Balance Sheets as of December 31, 2017, and 2016
Consolidated Statements of Cash Flows for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2017, 2016 and 2015
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 25 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Indiana, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Balance Sheets as of December 31, 2017, and 2016
Consolidated Statements of Cash Flows for the Years Ended December 31, 2017, 2016 and 2015
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2017, 2016 and 2015
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 25 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Piedmont Natural Gas Company, Inc.

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Year Ended December 31, 2017, Two Months Ended December 31, 2016, and the Years Ended October 31, 2016, and 2015
Consolidated Balance Sheets as of December 31, 2017, and 2016
Consolidated Statements of Cash Flows for the Year Ended December 31, 2017, Two Months Ended December 31, 2016, and the Years Ended October 31, 2016, and 2015
Consolidated Statements of Changes in Equity for the Year Ended December 31, 2017, Two Months Ended December 31, 2016, and the Years Ended October 31, 2016, and 2015
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 25 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

PART IV

EXHIBIT INDEX

Exhibits filed herewithin are designated by an asterisk (*). All exhibits not so designated are incorporated by reference to a prior filing, as indicated. Items constituting management contracts or compensatory plans or arrangements are designated by a double asterisk (**). The Company agrees to furnish upon request to the Commission a copy of any omitted schedules or exhibits upon request on all items designated by a triple asterisk (***).

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
2.1	Agreement and Plan of Merger between Duke Energy Corporation, Diamond Acquisition Corporation and Progress Energy, Inc., dated as of January 8, 2011 (incorporated by reference to Exhibit 2.1 to Duke Energy Corporation's Current Report on Form 8-K filed on January 11, 2011, File No. 1-32853).	X							
2.2	Agreement and Plan of Merger between Piedmont Natural Gas Company, Duke Energy Corporation and Forest Subsidiary, Inc. (incorporated by reference to Exhibit 2.1 to Duke Energy Corporation's Current Report on Form 8-K filed on October 26, 2015, File No. 1-32853).	X							
3.1	Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 to Duke Energy Corporation's Current Report on Form 8-K filed on May 20, 2014, File No. 1-32853).	X							
3.2	Amended and Restated By-Laws of Duke Energy Corporation (incorporated by reference to Exhibit 3.1 to Duke Energy Corporation's Current Report on Form 8-K filed on January 4, 2016, File No. 1-32853).	X							
3.3	Articles of Organization including Articles of Conversion (incorporated by reference to Exhibit 3.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on April 7, 2006, File No. 1-4928).		X						
3.3.1	Amended Articles of Organization, effective October 1, 2006, (incorporated by reference to Exhibit 3.1 to Duke Energy Carolinas, LLC's Quarterly Report on Form 10-Q for the quarter ended September 30, 2006, filed on November 13, 2006, File No. 1-4928).		X						
3.4	Amended Articles of Incorporation of Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company), effective October 23, 1996, (incorporated by reference to Exhibit 3(a) to registrant's Quarterly Report on Form 10-Q for the quarter ended September 30, 1996, filed on November 13, 1996, File No. 1-1232).						X		
3.4.1	Amended Articles of Incorporation, effective September 19, 2006, (incorporated by reference to Exhibit 3.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Quarterly Report on Form 10-Q for the quarter ended September 30, 2006, filed on November 17, 2006, File No. 1-1232).						X		
3.5	Certificate of Conversion of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.1 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.1	Articles of Entity Conversion of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.2	Plan of Entity Conversion of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.3 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.3	Articles of Organization of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.4 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.4	Limited Liability Company Operating Agreement of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.5 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.6	Limited Liability Company Operating Agreement of Duke Energy Carolinas, LLC (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on April 7, 2006, File No. 1-4928).		X						

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
3.7	Regulations of Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company), effective July 23, 2003, (incorporated by reference to Exhibit 3.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2003, filed on August 13, 2003, File No. 1-1232).						X		
3.8	Articles of Organization including Articles of Conversion for Duke Energy Progress, LLC (incorporated by reference to Exhibit 3.1 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3382).				X				
3.8.1	Plan of Conversion of Duke Energy Progress, Inc. (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3382).				X				
3.8.2	Limited Liability Company Operating Agreement of Duke Energy Progress, LLC (incorporated by reference to Exhibit 3.3 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3382).				X				
3.9	Amended and Restated Articles of Incorporation of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective June 15, 2000, (incorporated by reference to Exhibit 3(a)(1) to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2000, filed on August 14, 2000, File No. 1-3382).			X					
3.9.1	Articles of Amendment to the Amended and Restated Articles of Incorporation of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective December 4, 2000, (incorporated by reference to Exhibit 3(b)(1) to registrant's Annual Report on Form 10-K for the year ended December 31, 2001, filed on March 28, 2002, File No. 1-3382).			X					
3.9.2	Articles of Amendment to the Amended and Restated Articles of Incorporation of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective May 10, 2006, (incorporated by reference to Exhibit 3(a) to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006, filed on August 9, 2006, File No. 1-15929).			X					
3.9.3	By-Laws of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective May 10, 2006, (incorporated by reference to Exhibit 3(b) to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006, filed on August 9, 2006, File No. 1-15929).			X					
3.10	Articles of Conversion for Duke Energy Florida, LLC (incorporated by reference to Exhibit 3.4 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).					X			
3.10.1	Articles of Organization for Duke Energy Florida, LLC (incorporated by reference to Exhibit 3.5 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).					X			
3.10.2	Plan of Conversion of Duke Energy Florida, Inc. (incorporated by reference to Exhibit 3.6 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).					X			
3.10.3	Limited Liability Company Operating Agreement of Duke Energy Florida, LLC (incorporated by reference to Exhibit 3.7 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).					X			
3.11	Amended and Restated Articles of Incorporation of Piedmont Natural Gas Company, Inc., dated as of October 3, 2016 (incorporated by reference to Exhibit 3.1 to registrant's Annual Report on Form 10-K for the fiscal year ended October 31, 2016, filed on December 22, 2016, File No. 001-06196).								X
3.11.1	Bylaws of Piedmont Natural Gas Company, Inc., as amended and restated effective October 3, 2016 (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on October 3, 2016, File No. 1-06196).								X

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PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.1	Indenture between Duke Energy Corporation and The Bank of New York Mellon Trust Company, N.A., as Trustee, dated as of June 3, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 16, 2008, File No. 1-32853).	X							
4.1.1	First Supplemental Indenture, dated as of June 16, 2008, (incorporated by reference to Exhibit 4.2 to Duke Energy Corporation's Current Report on Form 8-K filed on June 16, 2008, File No. 1-32853).	X							
4.1.2	Second Supplemental Indenture, dated as of January 26, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on January 26, 2009, File No. 1-32853).	X							
4.1.3	Third Supplemental Indenture, dated as of August 28, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on August 28, 2009, File No. 1-32853).	X							
4.1.4	Fourth Supplemental Indenture, dated as of March 25, 2010, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on March 25, 2010, File No. 1-32853).	X							
4.1.5	Fifth Supplemental Indenture, dated as of August 25, 2011, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on August 25, 2011, File No. 1-32853).	X							
4.1.6	Sixth Supplemental Indenture, dated as of November 17, 2011, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on November 17, 2011, File No. 1-32853).	X							
4.1.7	Seventh Supplemental Indenture, dated as of August 16, 2012, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on August 16, 2012, File No. 1-32853).	X							
4.1.8	Eighth Supplemental Indenture, dated as of January 14, 2013, (incorporated by reference to Exhibit 2 to the Registration Statement of Form 8-A of the Company filed on January 14, 2013, File No. 1-32853).	X							
4.1.9	Ninth Supplemental Indenture, dated as of June 13, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 13, 2013, File No. 1-32853).	X							
4.1.10	Tenth Supplemental Indenture, dated as of October 11, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on October 11, 2013, File No. 1-32853).	X							
4.1.11	Eleventh Supplemental Indenture, dated as of April 4, 2014, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on April 4, 2014, File No. 1-32853).	X							
4.1.12	Twelfth Supplemental Indenture, dated as of November 19, 2015, (incorporated by reference to Exhibit 4.2 to Duke Energy Corporation's Current Report on Form 8-K filed on November 19, 2015, File No. 1-32853).	X							
4.1.13	Thirteenth Supplemental Indenture, dated as of April 18, 2016, to the indenture dated as of June 3, 2008, between Duke Energy Corporation and The Bank of New York Mellon Trust Company, N.A., as Trustee (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended March 31, 2016, filed on May 5, 2016, File No. 1-32853).	X							
4.1.14	Fourteenth Supplemental Indenture, dated as of August 12, 2016, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 12, 2016, File No. 1-32853).	X							
4.1.15	Fifteenth Supplemental Indenture, dated as of April 11, 2017 (incorporated by reference to Exhibit 4.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).	X							

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.1.16	Sixteenth Supplemental Indenture, dated as of June 13, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2017 filed on August 3, 2017, File No. 1-32853).	X							
4.1.17	Seventeenth Supplemental Indenture, dated as of August 10, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 10, 2017, File No. 1-32853).	X							
4.2	Senior Indenture between Duke Energy Carolinas, LLC and The Bank of New York Mellon Trust Company, N.A., as successor trustee to JPMorgan Chase Bank (formerly known as The Chase Manhattan Bank), dated as of September 1, 1998, (incorporated by reference to Exhibit 4-D-1 to registrant's Post-Effective Amendment No. 2 to Registration Statement on Form S-3 filed on April 7, 1999, File No. 333-14209).		X						
4.2.1	Fifteenth Supplemental Indenture, dated as of April 3, 2006, (incorporated by reference to Exhibit 4.4.1 to registrant's Registration Statement on Form S-3 filed on October 3, 2007, File No. 333-146483-03).		X						
4.2.2	Sixteenth Supplemental Indenture, dated as of June 5, 2007, (incorporated by reference to Exhibit 4.1 registrant's Current Report on Form 8-K filed on June 6, 2007, File No. 1-4928).		X						
4.3	First and Refunding Mortgage from Duke Energy Carolinas, LLC to The Bank of New York Mellon Trust Company, N.A., successor trustee to Guaranty Trust Company of New York, dated as of December 1, 1927, (incorporated by reference to Exhibit 7(a) to registrant's Form S-1, effective October 15, 1947, File No. 2-7224).		X						
4.3.1	Instrument of Resignation, Appointment and Acceptance among Duke Energy Carolinas, LLC, JPMorgan Chase Bank, N.A., as Trustee, and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of September 24, 2007, (incorporated by reference to Exhibit 4.6.1 to registrant's Registration Statement on Form S-3 filed on October 3, 2007, File No. 333-146483).		X						
4.3.2	Ninth Supplemental Indenture, dated as of February 1, 1949, (incorporated by reference to Exhibit 7(j) to registrant's Form S-1 filed on February 3, 1949, File No. 2-7808).		X						
4.3.3	Twentieth Supplemental Indenture, dated as of June 15, 1964, (incorporated by reference to Exhibit 4-B-20 to registrant's Form S-1 filed on August 23, 1966, File No. 2-25367).		X						
4.3.4	Twenty-third Supplemental Indenture, dated as of February 1, 1968, (incorporated by reference to Exhibit 2-B-26 to registrant's Form S-9 filed on January 21, 1969, File No. 2-31304).		X						
4.3.5	Sixtieth Supplemental Indenture, dated as of March 1, 1990, (incorporated by reference to Exhibit 4-B-61 to registrant's Annual Report on Form 10-K for the year ended December 31, 1990, File No.1-4928).		X						
4.3.6	Sixty-third Supplemental Indenture, dated as of July 1, 1991, (incorporated by reference to Exhibit 4-B-64 to registrant's Registration Statement on Form S-3 filed on February 13, 1992, File No. 33-45501).		X						
4.3.7	Eighty-fourth Supplemental Indenture, dated as of March 20, 2006, (incorporated by reference to Exhibit 4.6.9 to registrant's Registration Statement on Form S-3 filed on October 3, 2007, File No. 333-146483-03).		X						
4.3.8	Eighty-fifth Supplemental Indenture, dated as of January 10, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on January 11, 2008, File No.1-4928).		X						
4.3.9	Eighty-seventh Supplemental Indenture, dated as of April 14, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on April 15, 2008, File No.1-4928).		X						

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.3.10	Eighty-eighth Supplemental Indenture, dated as of November 17, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on November 20, 2008, File No.1-4928).		X						
4.3.11	Ninetieth Supplemental Indenture, dated as of November 19, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on November 19, 2009, File No.1-4928).		X						
4.3.12	Ninety-first Supplemental Indenture, dated as of June 7, 2010, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on June 7, 2010, File No.1-4928).		X						
4.3.13	Ninety-third Supplemental Indenture, dated as of May 19, 2011, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on May 19, 2011, File No.1-4928).		X						
4.3.14	Ninety-fourth Supplemental Indenture, dated as of December 8, 2011, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on December 8, 2011, File No.1-4928).		X						
4.3.15	Ninety-fifth Supplemental Indenture, dated as of September 21, 2012, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on September 21, 2012, File No.1-4928).		X						
4.3.16	Ninety-sixth Supplemental Indenture, dated as of March 12, 2015, between Duke Energy Carolinas, LLC and The Bank of New York Mellon Trust Company, N.A., as Trustee (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on March 12, 2015, File No. 1-4928).		X						
4.3.17	Ninety-seventh Supplemental Indenture, dated as of March 11, 2016, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on March 11, 2016, File No. 1-4928).		X						
4.3.18	Ninety-eighth Supplemental Indenture, dated as of November 17, 2016, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on November 17, 2016, File No. 1-4928).		X						
4.3.19	Ninety-ninth Supplemental Indenture, dated as of November 14, 2017, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC Current Report on Form 8-K filed on November 14, 2017, File No. 1-4928).		X						
4.4	Mortgage and Deed of Trust between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and The Bank of New York Mellon (formerly Irving Trust Company) and Frederick G. Herbst (Tina D. Gonzalez, successor), as Trustees, dated as of May 1, 1940.				X				
4.4.1	First through Fifth Supplemental Indentures thereto (incorporated by reference to Exhibit 2(b), File No. 2-64189).				X				
4.4.2	Sixth Supplemental Indenture dated April 1, 1960 (incorporated by reference to Exhibit 2(b)-5, File No. 2-16210).				X				
4.4.3	Seventh Supplemental Indenture dated November 1, 1961 (incorporated by reference to Exhibit 2(b)-6, File No. 2-16210).				X				
4.4.4	Eighth Supplemental Indenture dated July 1, 1964 (incorporated by reference to Exhibit 4(b)-8, File No. 2-19118).				X				
4.4.5	Ninth Supplemental Indenture dated April 1, 1966 (incorporated by reference to Exhibit 4(b)-2, File No. 2-22439).				X				
4.4.6	Tenth Supplemental Indenture dated October 1, 1967 (incorporated by reference to Exhibit 4(b)-2, File No. 2-24624).				X				
4.4.7	Eleventh Supplemental Indenture dated October 1, 1968 (incorporated by reference to Exhibit 2(c), File No. 2-27297).				X				

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.4.8	Twelfth Supplemental Indenture dated January 1, 1970 (incorporated by reference to Exhibit 2(c), File No. 2-30172).				X				
4.4.9	Thirteenth Supplemental Indenture dated August 1, 1970 (incorporated by reference to Exhibit 2(c), File No. 2-35694).				X				
4.4.10	Fourteenth Supplemental Indenture dated January 1, 1971 (incorporated by reference to Exhibit 2(c), File No. 2-37505).				X				
4.4.11	Fifteenth Supplemental Indenture dated October 1, 1971 (incorporated by reference to Exhibit 2(c), File No. 2-39002).				X				
4.4.12	Sixteenth Supplemental Indenture dated May 1, 1972 (incorporated by reference to Exhibit 2(c), File No. 2-41738).				X				
4.4.13	Seventeenth Supplemental Indenture dated November 1, 1973 (incorporated by reference to Exhibit 2(c), File No. 2-43439).				X				
4.4.14	Eighteenth Supplemental Indenture dated (incorporated by reference to Exhibit 2(c), File No. 2-47751).				X				
4.4.15	Nineteenth Supplemental Indenture dated May 1, 1974 (incorporated by reference to Exhibit 2(c), File No. 2-49347).				X				
4.4.16	Twentieth Supplemental Indenture dated December 1, 1974 (incorporated by reference to Exhibit 2(c), File No. 2-53113).				X				
4.4.17	Twenty-first Supplemental Indenture dated April 15, 1975 (incorporated by reference to Exhibit 2(d), File No. 2-53113).				X				
4.4.18	Twenty-second Supplemental Indenture dated October 1, 1977 (incorporated by reference to Exhibit 2(c), File No. 2-59511).				X				
4.4.19	Twenty-third Supplemental Indenture dated June 1, 1978 (incorporated by reference to Exhibit 2(c), File No. 2-61611).				X				
4.4.20	Twenty-fourth Supplemental Indenture dated May 15, 1979 (incorporated by reference to Exhibit 2(d), File No. 2-64189).				X				
4.4.21	Twenty-fifth Supplemental Indenture dated November 1, 1979 (incorporated by reference to Exhibit 2(c), File No. 2-65514).				X				
4.4.22	Twenty-sixth Supplemental Indenture dated November 1, 1979 (incorporated by reference to Exhibit 2(c), File No. 2-66851).				X				
4.4.23	Twenty-seventh Supplemental Indenture dated April 1, 1980 (incorporated by reference to Exhibit 2 (d), File No. 2-66851).				X				
4.4.24	Twenty-eighth Supplemental Indenture dated October 1, 1980 (incorporated by reference to Exhibit 4(b)-1, File No. 2-81299).				X				
4.4.25	Twenty-ninth Supplemental Indenture dated October 1, 1980 (incorporated by reference to Exhibit 4(b)-2, File No. 2-81299).				X				
4.4.26	Thirtieth Supplemental Indenture dated December 1, 1982 (incorporated by reference to Exhibit 4(b)- 3, File No. 2-81299).				X				
4.4.27	Thirty-first Supplemental Indenture dated March 15, 1983 (incorporated by reference to Exhibit 4(c)-1, File No. 2-95505).				X				
4.4.28	Thirty-second Supplemental Indenture dated March 15, 1983 (incorporated by reference to Exhibit 4(c)-2, File No. 2-95505).				X				
4.4.29	Thirty-third Supplemental Indenture dated December 1, 1983 (incorporated by reference to Exhibit 4(c)-3, File No. 2-95505).				X				
4.4.30	Thirty-fourth Supplemental Indenture dated December 15, 1983 (incorporated by reference to Exhibit 4(c)-4, File No. 2-95505).				X				
4.4.31	Thirty-fifth Supplemental Indenture dated April 1, 1984 (incorporated by reference to Exhibit 4(c)-5, File No. 2-95505).				X				

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.4.32	Thirty-sixth Supplemental Indenture dated June 1, 1984 (incorporated by reference to Exhibit 4(c)-6, File No. 2-95505).				X				
4.4.33	Thirty-seventh Supplemental Indenture dated June 1, 1984 (incorporated by reference to Exhibit 4(c)-7, File No. 2-95505).				X				
4.4.34	Thirty-eighth Supplemental Indenture dated June 1, 1984 (incorporated by reference to Exhibit 4(c)- 8, File No. 2-95505).				X				
4.4.35	Thirty-ninth Supplemental Indenture dated April 1, 1985 (incorporated by reference to Exhibit 4(b), File No. 33-25560).				X				
4.4.36	Fortieth Supplemental Indenture dated October 1, 1985 (incorporated by reference to Exhibit 4(c), File No. 33-25560).				X				
4.4.37	Forty-first Supplemental Indenture dated March 1, 1986 (incorporated by reference to Exhibit 4(d), File No. 33-25560).				X				
4.4.38	Forty-second Supplemental Indenture dated July 1, 1986 (incorporated by reference to Exhibit 4(e), File No. 33-25560).				X				
4.4.39	Forty-third Supplemental Indenture dated January 1, 1987 (incorporated by reference to Exhibit 4(f), File No. 33-25560).				X				
4.4.40	Forty-fourth Supplemental Indenture dated December 1, 1987 (incorporated by reference to Exhibit 4(g), File No. 33-25560).				X				
4.4.41	Forty-fifth supplemental Indenture dated September 1, 1988 (incorporated by reference to Exhibit 4(h), File No. 33-25560).				X				
4.4.42	Forty-sixth Supplemental Indenture dated April 1, 1989 (incorporated by reference to Exhibit 4(b), File No. 33-33431).				X				
4.4.43	Forty-seventh Supplemental Indenture dated August 1, 1989 (incorporated by reference to Exhibit 4(c), File No. 33-33431).				X				
4.4.44	Forty-eighth Supplemental Indenture dated November 15, 1990 (incorporated by reference to Exhibit 4(b), File No. 33-38298).				X				
4.4.45	Forty-ninth Supplemental Indenture dated November 15, 1990 (incorporated by reference to Exhibit 4(c), File No. 33-38298).				X				
4.4.46	Fiftieth Supplemental Indenture dated February 15, 1991 (incorporated by reference to Exhibit 4(h), File No. 33-42869).				X				
4.4.47	Fifty-first Supplemental Indenture dated April 1, 1991 (incorporated by reference to Exhibit 4(i), File No. 33-42869).				X				
4.4.48	Fifty-second Supplemental Indenture dated September 15, 1991(incorporated by reference to Exhibit 4(e), File No. 33-48607).				X				
4.4.49	Fifty-third Supplemental Indenture dated January 1, 1992 (incorporated by reference to Exhibit 4(f), File No. 33-48607).				X				
4.4.50	Fifty-fourth Supplemental Indenture dated April 15, 1992 (incorporated by reference to Exhibit 4 (g), File No. 33-48607).				X				
4.4.51	Fifty-fifth Supplemental Indenture dated July 1, 1992 (incorporated by reference to Exhibit 4(e), File No. 33-55060).				X				
4.4.52	Fifty-sixth Supplemental Indenture dated October 1, 1992 (incorporated by reference to Exhibit 4(f), File No. 33-55060).				X				
4.4.53	Fifty-seventh Supplemental Indenture dated February 1, 1993 (incorporated by reference to Exhibit 4(e), File No. 33-60014).				X				
4.4.54	Fifty-eighth Supplemental Indenture dated March 1, 1993 (incorporated by reference to Exhibit 4(f), File No. 33-60014).				X				

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.4.55	Fifty-ninth Supplemental Indenture dated July 1, 1993 (incorporated by reference to Exhibit 4(a) to Post-Effective Amendment No. 1, File No. 33-38349).				X				
4.4.56	Sixtieth Supplemental Indenture dated July 1, 1993 (incorporated by reference to Exhibit 4(b) to Post-Effective Amendment No. 1, File No. 33-38349).				X				
4.4.57	Sixty-first Supplemental Indenture dated August 15, 1993 (incorporated by reference to Exhibit 4(e), File No. 33-50597).				X				
4.4.58	Sixty-second Supplemental Indenture dated January 15, 1994 (incorporated by reference to Exhibit 4 to Duke Energy Progress' Current Report on Form 8-K dated January 19, 1994, File No. 1-3382).				X				
4.4.59	Sixty-third Supplemental Indenture dated May 1, 1994 (incorporated by reference to Exhibit 4(f) for Duke Energy Progress' Form S-3, File No. 033-57835).				X				
4.4.60	Sixty-fourth Supplemental Indenture dated August 15, 1997 (incorporated by reference to Exhibit to Duke Energy Progress' Current Report on Form 8-K dated August 26, 1997, File No. 1-3382).				X				
4.4.61	Sixty-fifth Supplemental Indenture dated April 1, 1998 (incorporated by reference to Exhibit 4(b) for Duke Energy Progress' Registration Statement on Form S-3 filed December 18, 1998, File No. 333-69237).				X				
4.4.62	Sixty-sixth Supplemental Indenture dated March 1, 1999 (incorporated by reference to Exhibit 4(c) to Duke Energy Progress' Current Report on Form 8-K dated March 19, 1999, File No. 1-3382).				X				
4.4.63	Form of Carolina Power & Light Company First Mortgage Bond, 6.80% Series Due August 15, 2007 (incorporated by reference to Exhibit 4 to Duke Energy Progress' Form 10-Q for the period ended September 30, 1998, File No. 1-3382).				X				
4.4.64	Sixty-eighth Supplemental Indenture dated April 1, 2000 (incorporated by reference to Exhibit No. 4(b) to Duke Energy Progress' Current Report on Form 8-K dated April 20, 2000, File No. 1-3382).				X				
4.4.65	Sixty-ninth Supplemental Indenture dated June 1, 2000 (incorporated by reference to Exhibit No. 4b(2) to Duke Energy Progress' Annual Report on Form 10-K dated March 29, 2001, File No. 1-3382).				X				
4.4.66	Seventieth Supplemental Indenture dated July 1, 2000 (incorporated by reference to Exhibit 4b(3) to Duke Energy Progress' Annual Report on Form 10-K dated March 29, 2001, File No. 1-3382).				X				
4.4.67	Seventy-first Supplemental Indenture dated February 1, 2002 (incorporated by reference to Exhibit 4b(2) to Duke Energy Progress' Annual Report on Form 10-K dated March 28, 2002, File No. 1-3382 and 1-15929).				X				
4.4.68	Seventy-second Supplemental Indenture, dated as of September 1, 2003, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on September 12, 2003, File No. 1-3382).				X				
4.4.69	Seventy-third Supplemental Indenture, dated as of March 1, 2005, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on March 22, 2005, File No. 1-3382).				X				
4.4.70	Seventy-fourth Supplemental Indenture, dated as of November 1, 2005, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on November 30, 2005, File No. 1-3382).				X				
4.4.71	Seventy-fifth Supplemental Indenture, dated as of March 1, 2008, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on March 13, 2008, File No. 1-3382).				X				

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.4.72	Seventy-sixth Supplemental Indenture, dated as of January 1, 2009, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on January 15, 2009, File No. 1-3382).				X				
4.4.73	Seventy-seventh Supplemental Indenture, dated as of June 18, 2009, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on June 23, 2009, File No. 1-3382).				X				
4.4.74	Seventy-eighth Supplemental Indenture, dated as of September 1, 2011, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on September 15, 2011, File No. 1-3382).				X				
4.4.75	Seventy-ninth Supplemental Indenture, dated as of May 1, 2012, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on May 18, 2012, File No. 1-3382).				X				
4.4.76	Eightieth Supplemental Indenture, dated as of March 1, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on March 12, 2013, File No. 1-3382).				X				
4.4.77	Eighty-second Supplemental Indenture, dated as of March 1, 2014, between the Company and The Bank of New York Mellon (formerly Irving Trust Company) and Tina D. Gonzalez (successor to Frederick G. Herbst) and forms of global notes (incorporated by reference to Exhibit 4.1 to Duke Energy Progress, Inc.'s Current Report on Form 8-K filed on March 6, 2014, File No. 1-3382).				X				
4.4.78	Eighty-third Supplemental Indenture, dated as of November 1, 2014, between the Company and The Bank of New York Mellon (formerly Irving Trust Company) and Tina D. Gonzalez (successor to Frederick G. Herbst) and forms of global notes (incorporated by reference to Exhibit 4.1 to Duke Energy Progress, Inc.'s Current Report on Form 8-K filed on November 20, 2014, File No. 1-3382).				X				
4.4.79	Eighty-fifth Supplemental Indenture, dated as of August 1, 2015, (incorporated by reference to Exhibit 4.1 to Duke Energy Progress, LLC's Current Report on Form 8-K filed on August 13, 2015, File No. 1-3382).				X				
4.4.80	Eighty-sixth Supplemental Indenture, dated as of September 1, 2016, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 16, 2016, File No. 1-15929).				X				
4.4.81	Eighty-seventh Supplemental Indenture, dated as of September 1, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 8, 2017, File No. 1-3382).				X				
4.5	Indenture (for Debt Securities) between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and The Bank of New York Mellon (successor in interest to The Chase Manhattan Bank), as Trustee (incorporated by reference to Exhibit 4(a) to registrant's Current Report on Form 8-K filed on November 5, 1999, File No. 1-3382).				X				
4.6	Indenture (for [Subordinated] Debt Securities) (open ended) (incorporated by reference to Exhibit 4(a)(2) to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Registration Statement on Form S-3 filed on November 18, 2008, File No. 333-155418).				X				
4.7	Indenture (for First Mortgage Bonds) between Duke Energy Florida, Inc. (formerly Florida Power Corporation) and The Bank of New York Mellon (as successor to Guaranty Trust Company of New York and The Florida National Bank of Jacksonville), as Trustee, dated as of January 1, 1944, (incorporated by reference to Exhibit B-18 to registrant's Form A-2, File No. 2-5293).					X			

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Step 13 2021

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.7.1	Seventh Supplemental Indenture (incorporated by reference to Exhibit 4(b) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 27, 1991, File No. 33-16788).					X			
4.7.2	Eighth Supplemental Indenture (incorporated by reference to Exhibit 4(c) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 27, 1991, File No. 33-16788).					X			
4.7.3	Sixteenth Supplemental Indenture (incorporated by reference to Exhibit 4(d) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 27, 1991, File No. 33-16788).					X			
4.7.4	Twenty-ninth Supplemental Indenture (incorporated by reference to Exhibit 4(c) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 17, 1982, File No. 2-79832).					X			
4.7.5	Thirty-eighth Supplemental Indenture, dated as of July 25, 1994, (incorporated by reference to exhibit 4(f) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on August 29, 1994, File No. 33-55273).					X			
4.7.6	Forty-first Supplemental Indenture, dated as of February 1, 2003, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Duke Energy Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on February 21, 2003, File No. 1-3274).					X			
4.7.7	Forty-second Supplemental Indenture, dated as of April 1, 2003, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Quarterly Report on Form 10-Q for the quarter ended June 30, 2003, filed on August 11, 2003, File No. 1-3274).					X			
4.7.8	Forty-third Supplemental Indenture, dated as of November 1, 2003, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on November 21, 2003, File No. 1-3274).					X			
4.7.9	Forty-fourth Supplemental Indenture, dated as of August 1, 2004, (incorporated by reference to Exhibit 4(m) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Annual Report on Form 10-K for the year ended December 31, 2004, filed on March 16, 2005, File No. 1-3274).					X			
4.7.10	Forty-sixth Supplemental Indenture, dated as of September 1, 2007, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on September 19, 2007, File No. 1-3274).					X			
4.7.11	Forty-seventh Supplemental Indenture, dated as of December 1, 2007, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on December 13, 2007, File No. 1-3274).					X			
4.7.12	Forty-eighth Supplemental Indenture, dated as of June 1, 2008, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on June 18, 2008, File No. 1-3274).					X			
4.7.13	Forty-ninth Supplemental Indenture, dated as of March 1, 2010, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on March 25, 2010, File No. 1-3274).					X			
4.7.14	Fiftieth Supplemental Indenture, dated as of August 11, 2011, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on August 18, 2011, File No. 1-3274).					X			

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.7.15	Fifty-first Supplemental Indenture, dated as of November 1, 2012, (incorporated by reference to Exhibit 4.1 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on November 20, 2012, File No. 1-3274).					X			
4.7.16	Fifty-third Supplemental Indenture, dated as of September 1, 2016, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 9, 2016, File No. 1-03274).					X			
4.8	Indenture (for Debt Securities) between Duke Energy Florida, Inc. (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) and The Bank of New York Mellon Trust Company, National Association (successor in interest to J.P. Morgan Trust Company, National Association), as Trustee, dated as of December 7, 2005, (incorporated by reference to Exhibit 4(a) to registrant's Current Report on Form 8-K filed on December 13, 2005, File No. 1-3274).					X			
4.8.1	First Supplemental Indenture, dated as of December 12, 2017, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on December 12, 2017, File No. 1-03274).					X			
4.9	Indenture (for [Subordinated] Debt Securities) (open ended) (incorporated by reference to Exhibit 4(a)(2) Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Registration Statement on Form S-3 filed on November 18, 2008, File No. 333-155418).					X			
4.10	Original Indenture (Unsecured Debt Securities) between Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company) and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of May 15, 1995, (incorporated by reference to Exhibit 3 to registrant's Form 8-A filed on July 27, 1995, File No. 1-1232).						X		
4.10.1	First Supplemental Indenture, dated as of June 1, 1995, (incorporated by reference to Exhibit 4 B to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Quarterly Report on Form 10-Q for the quarter ended June 30, 1995, filed on August 11, 1995, File No. 1-1232).						X		
4.10.2	Seventh Supplemental Indenture, dated as of June 15, 2003, (incorporated by reference to Exhibit 4.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Quarterly Report on Form 10-Q for the quarter ended June 30, 2003, filed on August 13, 2003, File No. 1-1232).						X		
4.11	Original Indenture (First Mortgage Bonds) between Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company) and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of August 1, 1936, (incorporated by reference to an exhibit to registrant's Registration Statement No. 2-2374).						X		
4.11.1	Fortieth Supplemental Indenture, dated as of March 23, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Current Report on Form 8-K filed on March 24, 2009, File No. 1-1232).						X		
4.11.2	Forty-second Supplemental Indenture, dated as of September 6, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Current Report on Form 8-K filed on September 6, 2013, File No. 1-1232).						X		
4.11.3	Forty-fourth Supplemental Indenture, dated as of June 23, 2016, (incorporated by reference to Exhibit 4.1 registrant's Current Report on Form 8-K filed on June 23, 2016, File No. 1-1232).						X		
4.11.4	Forty-fifth Supplemental Indenture, dated as of March 27, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on March 27, 2017, File No. 1-01232).						X		

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.12	Indenture between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of November 15, 1996, (incorporated by reference to Exhibit 4(v) to the Cinergy Corp. Form 10-K for the year ended December 31, 1996, filed on March 27, 1997, File No. 1-11377).							X	
4.12.1	Third Supplemental Indenture, dated as of March 15, 1998, (incorporated by reference to Exhibit 4-w to Cinergy Corp.'s Annual Report on Form 10-K for the year ended December 31, 1997, filed on March 27, 1998, File No. 1-11377).							X	
4.12.2	Eighth Supplemental Indenture, dated as of September 23, 2003, (incorporated by reference to Exhibit 4.2 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Quarterly Report on Form 10-Q for the quarter ended September 30, 2003, filed on November 13, 2003, File No. 1-3543).							X	
4.12.3	Ninth Supplemental Indenture, dated as of October 21, 2005, (incorporated by reference to Exhibit 4.7.3 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633).							X	
4.12.4	Tenth Supplemental Indenture, dated as of June 9, 2006, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on June 15, 2006, File No. 1-3543).							X	
4.13	Original Indenture (First Mortgage Bonds) between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Deutsche Bank National Trust Company, as Successor Trustee, dated as of September 1, 1939, (filed as an exhibit in File No. 70-258).							X	
4.13.1	Tenth Supplemental Indenture, dated as of July 1, 1952, (filed as an exhibit in File No. 2-9687).							X	
4.13.2	Twenty-third Supplemental Indenture, dated as of January 1, 1977, (filed as an exhibit in File No. 2-57828).							X	
4.13.3	Twenty-fifth Supplemental Indenture, dated as of September 1, 1978, (filed as an exhibit in File No. 2-62543).							X	
4.13.4	Twenty-sixth Supplemental Indenture, dated as of September 1, 1978, (filed as an exhibit in File No. 2-62543).							X	
4.13.5	Thirtieth Supplemental Indenture, dated as of August 1, 1980, (filed as an exhibit in File No. 2-68562).							X	
4.13.6	Thirty-fifth Supplemental Indenture, dated as of March 30, 1984, (filed as an exhibit to registrant's Annual Report on Form 10-K for the year ended December 31, 1984, File No. 1-3543).							X	
4.13.7	Forty-sixth Supplemental Indenture, dated as of June 1, 1990, (filed as an exhibit to registrant's Annual Report on Form 10-K for the year ended December 31, 1991, File No. 1-3543).							X	
4.13.8	Forty-seventh Supplemental Indenture, dated as of July 15, 1991, (filed as an exhibit to registrant's Annual Report on Form 10-K for the year ended December 31, 1991, File No. 1-3543).							X	
4.13.9	Forty-eighth Supplemental Indenture, dated as of July 15, 1992, (filed as an exhibit to registrant's Annual Report on Form 10-K for the year ended December 31, 1992, File No. 1-3543).							X	
4.13.10	Fifty-second Supplemental Indenture, dated as of April 30, 1999, (incorporated by reference to Exhibit 4 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Quarterly Report on Form 10-Q for the quarter ended March 31, 1999, filed on May 13, 1999, File No. 1-3543).							X	

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Step 13 2021

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.13.11	Fifty-seventh Supplemental Indenture, dated as of August 21, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report Form 8-K filed on August 21, 2008, File No. 1-3543).							X	
4.13.12	Fifty-eighth Supplemental Indenture, dated as of December 19, 2008, (incorporated by reference to Exhibit 4.8.12 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633-02).							X	
4.13.13	Fifty-ninth Supplemental Indenture, dated as of March 23, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on March 24, 2009, File No. 1-3543).							X	
4.13.14	Sixtieth Supplemental Indenture, dated as of June 1, 2009, (incorporated by reference to Exhibit 4.8.14 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633-02).							X	
4.13.15	Sixty-first Supplemental Indenture, dated as of October 1, 2009, (incorporated by reference to Exhibit 4.8.15 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633-02).							X	
4.13.16	Sixty-second Supplemental Indenture, dated as of July 9, 2010, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on July 9, 2010, File No. 1-3543).							X	
4.13.17	Sixty-third Supplemental Indenture, dated as of September 23, 2010, (incorporated by reference to Exhibit 4.8.17 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633-02).							X	
4.13.18	Sixty-fourth Supplemental Indenture, dated as of December 1, 2011, (incorporated by reference to Exhibit 4(d)(2)(xviii) to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 30, 2013, File No. 333-191462-03).							X	
4.13.19	Sixty-fifth Supplemental Indenture, dated as of March 15, 2012, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on March 15, 2012, File No. 1-3543).							X	
4.13.20	Sixty-sixth Supplemental Indenture, dated as of July 11, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on July 11, 2013, File No. 1-3543).							X	
4.13.21	Sixty-seventh Supplemental Indenture, dated as of January 1, 2016, between Duke Energy Indiana, Inc. and Deutsche Bank National Trust Company, as Trustee, supplementing and amending the Indenture of Mortgage or Deed of Trust, dated September 1, 1939, between Duke Energy Indiana, Inc. and Deutsche Bank National Trust Company, as Trustee (incorporated by reference to Exhibit 4.2 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Quarterly Report on Form 10-Q for the quarter ended March 31, 2016, filed on May 5, 2016, File No. 1-3543).							X	
4.13.22	Sixty-eighth Supplemental Indenture, dated as of May 12, 2016, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on May 12, 2016, File No. 1-3543).							X	
4.14	Repayment Agreement between Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company) and The Dayton Power and Light Company, dated as of December 23, 1992, (filed with registrant's Annual Report on Form 10-K for the year ended December 31, 1992, File No. 1-1232).						X		

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Step 13 2021

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.15	Unsecured Promissory Note between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and the Rural Utilities Service, dated as of October 14, 1998, (incorporated by reference to Exhibit 4 to registrant's Annual Report on Form 10-K for the year ended December 31, 1998, filed on March 8, 1999, File No. 1-3543).							X	
4.16	6.302% Subordinated Note between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Cinergy Corp., dated as of February 5, 2003, (incorporated by reference to Exhibit 4(yyy) to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2003, filed on May 12, 2003, File No. 1-3543).							X	
4.17	6.403% Subordinated Note between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Cinergy Corp., dated as of February 5, 2003, (incorporated by reference to Exhibit 4(zzz) to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2003, filed on May 12, 2003, File No. 1-3543).							X	
4.18	Contingent Value Obligation Agreement between Progress Energy, Inc. (formerly CP&L Energy, Inc.) and The Chase Manhattan Bank, as Trustee, dated as of November 30, 2000, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on December 1, 2000, File No. 1-3382).			X					
4.19	Form of 3.47% Series A Senior Notes due July 16, 2027 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on March 29, 2012, File No. 1-06196).								X
4.20	Form of 3.57% Series B Senior Notes due July 16, 2027 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on March 29, 2012, File No. 1-06196).								X
4.21	Form of 4.65% Senior Notes due 2043 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on August 1, 2013, File No. 1-06196).								X
4.22	Form of 4.10% Senior Notes due 2034 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on September 18, 2014, File No. 1-06196).								X
4.23	Form of 3.60% Senior Notes due 2025 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on September 14, 2015, File No. 1-06196).								X
4.24	Form of 3.64% Senior Notes due 2046 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on July 28, 2016, File No. 1-06196).								X
4.25	Form of 4.24% Series B Senior Notes due June 6, 2021 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on May 12, 2011, File No. 1-06196).								X
4.26	Indenture, dated as of April 1, 1993, between Piedmont and The Bank of New York Mellon Trust Company, N.A. (as successor to Citibank, N.A.), Trustee (incorporated by reference to Exhibit 4.1 to registrant's Registration Statement on Form S-3 filed on May 16, 1995, File No. 33-59369).								X
4.26.1	Second Supplemental Indenture, dated as of June 15, 2003, between Piedmont and Citibank, N.A., Trustee (incorporated by reference to Exhibit 4.3 to registrant's Registration Statement on Form S-3 filed on June 19, 2003, File No. 333-106268).								X
4.26.2	Fourth Supplemental Indenture, dated as of May 6, 2011, between Piedmont Natural Gas Company, Inc. and The Bank of New York Mellon Trust Company, N.A., as trustee (incorporated by reference to Exhibit 4.2 to registrant's Registration Statement on Form S-3-ASR filed on July 7, 2011, File No. 333-175386).								X
4.26.3	Fifth Supplemental Indenture, dated August 1, 2013, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 1, 2013, File No. 1-06196).								X

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.26.4	Sixth Supplemental Indenture, dated September 18, 2014, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 18, 2014, File No. 1-06196).								X
4.26.5	Seventh Supplemental Indenture, dated September 14, 2015, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 14, 2015, File No. 1-06196).								X
4.26.6	Eighth Supplemental Indenture, dated July 28, 2016, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on July 28, 2016, File No. 1-06196).								X
4.27	Medium-Term Note, Series A, dated as of October 6, 1993 (incorporated by reference to Exhibit 4.8 to registrant's Annual Report on Form 10-K for the year ended October 31, 1993, File No. 1-06196).								X
4.28	Medium-Term Note, Series A, dated as of September 19, 1994 (incorporated by reference to Exhibit 4.9 to registrant's Annual Report on Form 10-K for the year ended October 31, 1994, File No. 1-06196).								X
4.29	Form of 6% Medium-Term Note, Series E, dated as of December 19, 2003 (incorporated by reference to Exhibit 99.2 to registrant's Current Report on Form 8-K filed on December 23, 2003, File No. 1-06196).								X
4.30	Form of Master Global Note (incorporated by reference to Exhibit 4.4 to registrant's Registration Statement on Form S-3 filed on April 30, 1997, File No. 333-26161).								X
4.31	Pricing Supplement of Medium-Term Notes, Series B, dated October 3, 1995 (incorporated by reference to Exhibit 4.10 to registrant's Annual Report on Form 10-K for the year ended October 31, 1995, File No. 1-06196).								X
4.32	Pricing Supplement of Medium-Term Notes, Series B, dated October 4, 1996 (incorporated by reference to Exhibit 4.11 to registrant's Annual Report on Form 10-K for the year ended October 31, 1996, File No. 1-06196).								X
4.33	Pricing Supplement of Medium-Term Notes, Series C, dated September 15, 1999 (incorporated by reference to Rule 424(b)(3) Pricing Supplement to Form S-3 Registration Statement Nos. 33-59369 and 333-26161).								X
4.34	Agreement of Resignation, Appointment and Acceptance dated as of March 29, 2007, by and among Piedmont Natural Gas Company, Inc., Citibank, N.A., and The Bank of New York Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended April 30, 2007, filed on June 8, 2007, File No. 1-06196).								X
10.1**	Directors' Charitable Giving Program (incorporated by reference to Exhibit 10-P to Duke Energy Carolinas, LLC's Annual Report on Form 10-K for the year ended December 31, 1992, File No. 1-4928).		X						
10.1.1**	Amendment to Directors' Charitable Giving Program, dated as of June 18, 1997, (incorporated by reference to Exhibit 10-1.1 to Duke Energy Carolinas, LLC's Annual Report on Form 10-K for the year ended December 31, 2003, filed on March 15, 2004, File No. 1-4928).		X						
10.1.2**	Amendment to Directors' Charitable Giving Program, dated as of July 28, 1997, (incorporated by reference to Exhibit 10-1.2 to Duke Energy Carolinas, LLC's Annual Report on Form 10-K for the year ended December 31, 2003, filed on March 15, 2004, File No. 1-4928).		X						
10.1.3**	Amendment to Directors' Charitable Giving Program, dated as of February 18, 1998, (incorporated by reference to Exhibit 10-1.3 to Duke Energy Carolinas, LLC's Annual Report on Form 10-K for the year ended December 31, 2003, filed on March 15, 2004, File No. 1-4928).		X						

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.2	Agreements with Piedmont Electric Membership Corporation, Rutherford Electric Membership Corporation and Blue Ridge Electric Membership Corporation (incorporated by reference to Exhibit 10.15 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006, filed on August 9, 2006, File No. 1-32853).		X						
10.3	Asset Purchase Agreement between Saluda River Electric Cooperative, Inc., as Seller, and Duke Energy Carolinas, LLC, as Purchaser, dated as of December 20, 2006, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on December 27, 2006, File No. 1-4928).		X						
10.4	Settlement between Duke Energy Corporation, Duke Energy Carolinas, LLC and the U.S. Department of Justice resolving Duke Energy's used nuclear fuel litigation against the U.S. Department of Energy, dated as of March 6, 2007, (incorporated by reference to Item 8.01 to registrant's Current Report on Form 8-K filed on March 12, 2007, File No. 1-4928).		X						
10.5	ATM Equity Offering Sales Agreement dated January 7, 2015 between the Company and Merrill Lynch, Pierce, Fenner & Smith Incorporated (incorporated by reference to Exhibit 1.1 to registrant's Current Report on Form 8-K filed on January 7, 2015, File No. 1-06196).								X
10.6	Letter Agreement between Georgia Natural Gas Company and Piedmont Energy Company dated February 12, 2016 (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on February 18, 2016, File No. 1-06196).								X
10.7	Assignment of Membership Interests dated as of October 3, 2016 between Piedmont ACP Company, LLC and Dominion Atlantic Coast Pipeline, LLC, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on October 7, 2016, File No. 1-06196).								X
10.8	Agreements between Piedmont Electric Membership Corporation, Rutherford Electric Membership Corporation and Blue Ridge Electric Membership Corporation (incorporated by reference to Exhibit 10.15 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006 filed on August 9, 2006, File No. 1-32853).		X						
10.9	Conveyance and Assignment Agreement, dated as of October 3, 2016, by and between Piedmont Energy Company and Georgia Natural Gas Company (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on October 3, 2016, File No. 1-06196).								X
10.10	Engineering, Procurement and Construction Management Agreement between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Bechtel Power Corporation, dated as of December 15, 2008, (incorporated by reference to Exhibit 10.16 to registrant's Annual Report on Form 10-K for the year ended December 31, 2008, filed on March 13, 2009, File No. 1-3543). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)							X	
10.11	Formation and Sale Agreement between Duke Ventures, LLC, Crescent Resources, LLC, Morgan Stanley Real Estate Fund V U.S. L.P., Morgan Stanley Real Estate Fund V Special U.S., L.P., Morgan Stanley Real Estate Investors V U.S., L.P., MSP Real Estate Fund V, L.P., and Morgan Stanley Strategic Investments, Inc., dated as of September 7, 2006, (incorporated by reference to Exhibit 10.3 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2006, filed on November 9, 2006, File No. 1-32853).	X							
10.12	Operating Agreement of Pioneer Transmission, LLC (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2008, filed on November 7, 2008, File No. 1-32853).	X							

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.13**	Amended and Restated Duke Energy Corporation Directors' Saving Plan, dated as of January 1, 2014, (incorporated by reference to Exhibit 10.32 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2013, filed on February 28, 2014, File No. 1-32853).	X							
10.14	Engineering, Procurement and Construction Management Agreement between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Bechtel Power Corporation, dated as of December 15, 2008, (incorporated by reference to Item 1.01 to registrant's Current Report on Form 8-K filed on December 19, 2008, File Nos. 1-32853 and 1-3543). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)	X						X	
10.15**	Duke Energy Corporation Executive Severance Plan (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on January 13, 2011, File No. 1-32853).	X							
10.16	\$6,000,000,000 Five-Year Credit Agreement between Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Carolina Power and Light Company d/b/a Duke Energy Progress, Inc. and Florida Power Corporation, d/b/a Duke Energy Florida, Inc., as Borrowers, the lenders listed therein, Wells Fargo Bank, National Association, as Administrative Agent, Bank of America, N.A. and The Royal Bank of Scotland plc, as Co-Syndication Agents and Bank of China, New York Branch, Barclays Bank PLC, Citibank, N.A., Credit Suisse AG, Cayman Islands Branch, Industrial and Commercial Bank of China Limited, New York Branch, JPMorgan Chase Bank, N.A. and UBS Securities LLC, as Co-Documentation Agents, dated as of November 18, 2011, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on November 25, 2011, File Nos. 1-32853, 1-4928, 1-1232 and 1-3543).	X	X				X	X	
10.16.1	Amendment No. 1 and Consent between Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Duke Energy Progress, Inc., Duke Energy Florida, Inc., and Wells Fargo Bank, National Association, dated as of December 18, 2013, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on December 23, 2013, File Nos. 1-32853, 1-4928, 1-3382, 1-3274, 1-1232 and 1-3543).	X	X		X	X	X	X	
10.16.2	Amendment No. 2 and Consent between Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Duke Energy Progress, Inc., and Duke Energy Florida, Inc., the Lenders party hereto, the issuing Lenders party hereto, Wells Fargo Bank, National Association, as Administrative Agent and Swingline Lender, dated as of January 30, 2015, (incorporated by reference to Exhibit 10.1 of registrant's Current Report on Form 8-K filed on February 5, 2015, File Nos. 1-32853, 1-4928, 1-1232, 1-3543, 1-3382 and 1-3274).	X	X		X	X	X	X	
10.16.3	Amendment No. 3 and Consent, dated as of March 16, 2017, among the registrants, the Lenders party thereto, the issuing Lenders party thereto, and Wells Fargo Bank, National Association, as Administrative Agent and Swingline Lender (incorporated by reference to Exhibit 10.1 to registrants' Current Report on Form 8-K filed on March 17, 2017, File Nos. 1-32853, 1-04928, 1-03382, 1-03274, 1-01232, 1-03543, 1-06196).	X	X		X	X	X	X	X
10.17**	Duke Energy Corporation 2010 Long-Term Incentive Plan (incorporated by reference to Appendix A to registrant's Form DEF 14A filed on March 22, 2010, File No. 1-32853).	X							
10.17.1**	Amendment to Duke Energy Corporation 2010 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.3 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2012, filed on August 8, 2012, File No. 1-32853).	X							

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.18**	Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Appendix C to registrant's DEF 14A filed on March 26, 2015, File No. 1-32853).	X							
10.19**	Form of Restricted Stock Unit Award Agreement of Duke Energy Corporation under the Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on May 12, 2015, File No. 1-32853).	X							
10.20**	Form of Performance Award Agreement of Duke Energy Corporation under the Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.2 to registrant's Current Report on Form 8-K filed on May 12, 2015, File No. 1-32853).	X							
10.21**	Form of Performance Award Agreement of Duke Energy Corporation under the Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on February 18, 2016, File No. 1-32853).	X							
10.22**	Form of Restricted Stock Unit Award Agreement of Duke Energy Corporation under the Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.2 to registrant's Current Report on Form 8-K filed on February 18, 2016, File No. 1-32853).	X							
10.23**	Restricted Stock Unit Award Agreement (incorporated by reference to Exhibit 10.4 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).	X							
10.24**	Restricted Stock Unit Award Agreement (incorporated by reference to Exhibit 10.24 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).	X							
10.25**	Performance-Based Retention Award Agreement (incorporated by reference to Exhibit 10.2 to registrant's Current Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).	X							
10.26**	Performance Award Agreement (incorporated by reference to Exhibit 10.3 to registrant's Current Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).	X							
10.27*	Performance Award Agreement (incorporated by reference to Exhibit 10.27 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).	X							
10.28	Settlement Agreement between Duke Energy Corporation, the North Carolina Utilities Commission Staff and the North Carolina Public Staff, dated as of November 28, 2012, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on November 29, 2012, File No. 1-32853).	X							
10.29	Settlement Agreement between Duke Energy Corporation and the North Carolina Attorney General, dated as of December 3, 2012, (incorporated by reference to Item 7.01 to registrant's Current Report on Form 8-K filed on December 3, 2012, File No. 1-32853).	X							
10.30**	Form of Change-in-Control Agreement (incorporated by reference to Exhibit 10.58 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2012, filed on March 1, 2013, File No. 1-32853).	X							
10.31**	Amended and Restated Duke Energy Corporation Executive Cash Balance Plan, dated as of January 1, 2014, (incorporated by reference to Exhibit 10.52 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2013, filed on February 28, 2014, File No. 1-32852).	X							
10.32	Purchase, Construction and Ownership Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Municipal Power Agency Number 3 and Exhibits, together with resolution, dated as of December 16, 1981, changing name to North Carolina Eastern Municipal Power Agency, amending letter, dated as of February 18, 1982, and amendment, dated as of February 24, 1982, (incorporated by reference to Exhibit 10(a) to registrant's File No. 33-25560).				X				

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.33	Operating and Fuel Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Municipal Power Agency Number 3 and Exhibits, together with resolution, dated as of December 16, 1981, changing name to North Carolina Eastern Municipal Power Agency, amending letters, dated as of August 21, 1981, and December 15, 1981, and amendment, dated as of February 24, 1982, (incorporated by reference to Exhibit 10(b) to registrant's File No. 33-25560).				X				
10.34	Power Coordination Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Municipal Power Agency Number 3 and Exhibits, together with resolution, dated as of December 16, 1981, changing name to North Carolina Eastern Municipal Power Agency and amending letter, dated as of January 29, 1982, (incorporated by reference to Exhibit 10(c) to registrant's File No. 33-25560).				X				
10.35	Amendment, dated as of December 16, 1982, to Purchase, Construction and Ownership Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Eastern Municipal Power Agency (incorporated by reference to Exhibit 10(d) to registrant's File No. 33-25560).				X				
10.36**	Progress Energy, Inc. 2007 Equity Incentive Plan (incorporated by reference to Exhibit C to registrant's Form DEF 14A filed on March 30, 2007, File No. 1-15929).			X					
10.37**	Form of Letter Agreement executed by certain officers of Progress Energy, Inc., waiving certain rights under Progress Energy, Inc.'s Management Change-in-Control Plan and their employment agreements, dated as of January 8, 2011, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on January 10, 2011, File No. 1-15929).			X					
10.38**	Progress Energy, Inc. Management Change-in-Control Plan, Amended and Restated, effective July 13, 2011, (incorporated by reference to Exhibit 10(d) to registrant's Quarterly Report on Form 10-Q for the quarter ended September 30, 2011, filed on November 8, 2011, File Nos. 1-15929, 1-3382 and 1-3274).			X	X	X			
10.39	Precedent and Related Agreements between Duke Energy Florida, Inc. (formerly Florida PowerCorporation d/b/a Progress Energy Florida, Inc. ("PEF")), Southern Natural Gas Company, FloridaGas Transmission Company ("FGT"), and BG LNG Services, LLC ("BG"), including:a) Precedent Agreement between Southern Natural Gas Company and PEF, dated as ofDecember 2, 2004;b) Gas Sale and Purchase Contract between BG and PEF, dated as of December 1, 2004;c) Interim Firm Transportation Service Agreement by and between FGT and PEF, dated as ofDecember 2, 2004;d) Letter Agreement between FGT and PEF, dated as of December 2, 2004, andFirm Transportation Service Agreement between FGT and PEF to be entered into upon satisfactionof certain conditions precedent;e) Discount Agreement between FGT and PEF, dated as of December 2, 2004;f) Amendment to Gas Sale and Purchase Contract between BG and PEF, dated as of January 28,2005; andg) Letter Agreement between FGT and PEF, dated as of January 31, 2005, (incorporated byreference to Exhibit 10.1 to registrant's Current Report on Form 8-K/A filed on March 15, 2005, FileNos. 1-15929 and 1-3274). (Portions of the exhibit have been omitted and filed separately with theSecurities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)			X		X			

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PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.40	Engineering, Procurement and Construction Agreement between Duke Energy Florida, Inc. (formerly Florida Power Corporation d/b/a/ Progress Energy Florida, Inc.), as owner, and a consortium consisting of Westinghouse Electric Company LLC and Stone & Webster, Inc., as contractor, for a two-unit AP1000 Nuclear Power Plant, dated as of December 31, 2008, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on March 2, 2009, File Nos. 1-15929 and 1-3274). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)			X		X			
10.41**	Employment Agreement between Duke Energy Corporation and Lynn J. Good, dated as of June 17, 2013, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 18, 2013, File No. 1-32853).	X							
10.41.1**	Amendment to Employment Agreement between Duke Energy Corporation and Lynn J. Good, dated as of June 25, 2015, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 29, 2015, File No. 1-32853).	X							
10.42**	Duke Energy Corporation Executive Short-Term Incentive Plan, effective February 25, 2013, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on May 7, 2013, File No. 1-32853).	X							
10.43**	Duke Energy Corporation 2017 Director Compensation Program Summary (incorporated by reference to Exhibit 10.3 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2017 filed on August 3, 2017, File No. 1-32853).	X							
10.44**	Amended and Restated Duke Energy Corporation Executive Savings Plan, dated as of January 1, 2014, (incorporated by reference to Exhibit 10.82 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2013, filed on February 28, 2014, File No. 1-32853).	X							
10.44.1	Amendment to Duke Energy Corporation Executive Savings Plan, effective as of January 1, 2014 (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2017 filed on November 3, 2017, File No. 1-32853).	X							
10.45	Agreement between Duke Energy SAM, LLC, Duke Energy Ohio, Inc., Duke Energy Commercial Enterprise, Inc. and Dynegy Resource I, LLC, dated as of August 21, 2014, (incorporated by reference to Exhibit 10.61 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2014, filed on March 2, 2015, File No. 1-32853).	X					X		
10.46	Asset Purchase Agreement between Duke Energy Progress, Inc. and North Carolina Eastern Municipal Power Agency, dated as of September 5, 2014, (incorporated by reference to Exhibit 10.62 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2014, filed on March 2, 2015, File No. 1-32853).	X			X				
10.47	Change in Control Agreement between Duke Energy Corporation and Lloyd M. Yates, dated as of April 30, 2014, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on May 6, 2014, File No. 1-32853).	X							
10.48	Accelerated Stock Repurchase Program executed by Goldman, Sachs & Co., and JPMorgan Chase Bank, N.A. on April 6, 2015, under an agreement with Duke Energy Corporation (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on April 6, 2015, File No. 1-32853).	X							
10.49	Plea Agreement between Duke Energy Corporation and the Court of the Eastern District of North Carolina in connection with the May 14, 2015, Dan River Grand Jury Settlement (incorporated by reference to Exhibit 10.3 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2015, filed on August 7, 2015, File No. 1-32853).	X							

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.50	Plea Agreement between Duke Energy Corporation and the Court of the Eastern District of North Carolina in connection with the May 14, 2015, Dan River Grand Jury Settlement (incorporated by reference to Exhibit 10.4 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2015, filed on August 7, 2015, File No. 1-32853).	X							
10.51	\$1,500,000,000 Amended and Restated Term Loan Agreement among Duke Energy Corporation, as Borrower, the Lenders listed therein, The Bank of Tokyo-Mitsubishi UFJ, Ltd., as Administrative Agent, and The Bank of Tokyo-Mitsubishi UFJ, Ltd., Santander Bank, N.A. and TD Bank, N.A., as Joint Lead Arrangers and Bookrunners, dated as of August 1, 2016, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2016, filed on August 4, 2016, File No. 1-32853).	X							
10.52	Purchase and Sale Agreement by and among Duke Energy International Group S.à.r.l., Duke Energy International Brazil Holdings S.à.r.l. and China Three Gorges (Luxembourg) Energy S.à.r.l., dated as of October 10, 2016, (incorporated by reference to Exhibit 2.1 to registrant's Current Report on Form 8-K filed on October 13, 2016, File No. 1-32853).	X							
10.53	Purchase and Sale Agreement by and among Duke Energy Brazil Holdings II, C.V., Duke Energy International Uruguay Investments SRL, Duke Energy International Group S.à.r.l., Duke Energy International España Holdings SL, Duke Energy International Investments No. 2 Ltd., ISQ Enerlam Aggregator, L.P., and Enerlam (UK) Holdings Ltd., dated as of October 10, 2016, (incorporated by reference to Exhibit 2.2. to registrant's Current Report on Form 8-K filed on October 13, 2016, File No. 1-32853).	X							
10.54**	Amended and Restated Employment Agreement, dated May 25, 2012, between Piedmont Natural Gas Company, Inc. and Franklin H. Yoho (incorporated by reference to Exhibits 10.1 and 10.2 to Piedmont Natural Gas Company, Inc.'s Quarterly Report on Form 10-Q for the quarter ended July 31, 2012, filed on September 7, 2012, File No. 1-06196).	X							
10.55**	Severance Agreements with Thomas E. Skains and Franklin H. Yoho, dated September 4, 2007, (incorporated by reference to Exhibits 10.2 and 10.2a to Piedmont Natural Gas Company, Inc.'s Quarterly Report on Form 10-Q for the quarter ended July 31, 2007, filed on September 7, 2007, File No. 1-06196).	X							
10.56**	Piedmont Natural Gas Company, Inc. Defined Contribution Restoration Plan, dated as of December 8, 2008, effective January 1, 2009, (incorporated by reference to Exhibit 10.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 2009, filed on March 9, 2009, File No. 1-06196).	X							
10.56.1**	Instrument of Amendment for Piedmont Natural Gas Company, Inc. Defined Contribution Restoration Plan, dated as of January 23, 2012, by Piedmont Natural Gas Company, Inc. (incorporated by reference to Exhibit 10.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 2012, filed on March 9, 2012, File No. 1-06196).	X							
10.56.2**	Instrument of Second Amendment for Piedmont Natural Gas Company, Inc. Defined Contribution Restoration Plan, dated September 15, 2016 (incorporated by reference to Exhibit 10.63.2 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).	X							
10.57**	Piedmont Natural Gas Company, Inc. Incentive Compensation Plan (incorporated by reference to Exhibit 10.64 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).	X							
10.57.1**	First Amendment to Piedmont Natural Gas Company, Inc. Incentive Compensation Plan (incorporated by reference to Exhibit 4.2 to registrant's Registration Statement on Form S-8 filed on October 3, 2016, File No. 1-32853).	X							

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.58**	Form of Performance Unit Award Agreement (incorporated by reference to Exhibit 10.4 to registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 2016, filed on March 9, 2016, File No. 1-06196).	X							
10.59**	Waiver of Certain Rights to Terminate for Good Reason between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.66 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).	X							
10.60**	Notice of Non-Renewal of Employment Agreement between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.67 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).	X							
10.61**	Retention Award Agreement, dated as of October 24, 2015, between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.68 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).	X							
10.62	Confirmation of Forward Sale Transaction, dated as of March 1, 2016, between Duke Energy Corporation and Barclays Capital Inc. (incorporated by referenced to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on March 7, 2016, File No. 1-32853).	X							
10.62.1	Additional Confirmation of Forward Sale Transaction, dated as of March 2, 2016, between Duke Energy Corporation and Barclays Capital Inc. (incorporated by reference to Exhibit 10.2 to registrant's Current Report on Form 8-K filed on March 7, 2016, File No. 1-32853).	X							
10.63	\$1,000,000,000 Credit Agreement, dated as of June 14, 2017, among Duke Energy Corporation, the lenders listed therein, The Bank of Nova Scotia, as Administrative Agent, PNC Bank, National Association, Sumitomo Mitsui Banking Corporation and TD Bank, N.A., as CO-Syndication Agents, and Bank of China, New York Branch, BNP Paribas, Santander Bank, N.A. and U.S. Bank National Association, as Co-Documentation Agents (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on June 14, 2017, File No. 1-32853).	X							
10.64	\$250,000,000 Term Loan Credit Agreement, dated as of June 14, 2017, among Piedmont Natural Gas Company, Inc. the lenders listed therein, U.S. Bank National Association, as Administrative Agent, Branch Banking and Trust Company and Regions Bank, as Co-Syndication Agents and PNC Bank, National Association, as Documentation Agent (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on June 14, 2017, File No. 1-06196).								X
10.65	Note Purchase Agreement, dated as of May 6, 2011, among Piedmont Natural Gas Company, Inc. and the Purchasers party thereto (incorporated by reference to Exhibit 10 to registrant's Current Report on Form 8-K filed on May 12, 2011, File No. 1-06196).								X
10.66	Amended and Restated Limited Liability Company Agreement of Constitution Pipeline Company, LLC dated April 9, 2012, by and among Williams Partners Operating LLC and Cabot Pipeline Holdings LLC (incorporated by reference to Exhibit 10.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 2013, filed on March 6, 2013, File No. 1-06196).								X
10.66.1	First Amendment to Amended and Restated Limited Liability Company Agreement of Constitution Pipeline Company, LLC, dated as of November 9, 2012, by and among Constitution Pipeline Company, LLC, Williams Partners Operating LLC, Cabot Pipeline Holdings LLC, and Piedmont Constitution Pipeline Company, LLC (incorporated by reference to Exhibit 10.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 2013, filed on March 6, 2013, File No. 1-06196).								X

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.66.2	Second Amendment to Amended and Restated Limited Liability Company Agreement of Constitution Pipeline Company, LLC, dated as of May 29, 2013, by and among Constitution Pipeline Company, LLC, Williams Partners Operating LLC, Cabot Pipeline Holdings LLC, Piedmont Constitution Pipeline Company, LLC, and Capitol Energy Ventures Corp. (incorporated by reference to Exhibit 99.1 to registrant's Current Report on Form 8-K filed on September 4, 2013, File No. 1-06196).								X
10.67	Second Amended and Restated Limited Liability Company Agreement of SouthStar Energy Services LLC, dated as of September 1, 2013, by and between Georgia Natural Gas Company and Piedmont Energy Company (incorporated by reference to Exhibit 10.39 to registrant's Annual Report on Form 10-K for the year ended October 31, 2013, filed on December 23, 2013, File No. 1-06196).								X
10.68	Limited Liability Company Agreement of Atlantic Coast Pipeline, LLC, dated as of September 2, 2014, by and between Dominion Atlantic Coast Pipeline, LLC, Duke Energy ACP, LLC, Piedmont ACP Company, LLC, and Maple Enterprise Holdings, Inc. (incorporated by reference to Exhibit 10.35 to registrant's Annual Report on Form 10-K for the year ended October 31, 2014, filed on December 23, 2014, File No. 1-06196).								X
12.1	Computation of Ratio of Earnings to Fixed Charges – DUKE ENERGY CORPORATION (incorporated by reference to Exhibit 12.1 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).	X							
12.2	Computation of Ratio of Earnings to Fixed Charges – DUKE ENERGY CAROLINAS, LLC (incorporated by reference to Exhibit 12.2 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).		X						
12.3	Computation of Ratio of Earnings to Fixed Charges – PROGRESS ENERGY, INC. (incorporated by reference to Exhibit 12.3 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).			X					
12.4	Computation of Ratio of Earnings to Fixed Charges – DUKE ENERGY PROGRESS, LLC (incorporated by reference to Exhibit 12.4 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).				X				
12.5	Computation of Ratio of Earnings to Fixed Charges – DUKE ENERGY FLORIDA, LLC (incorporated by reference to Exhibit 12.5 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).					X			
12.6	Computation of Ratio of Earnings to Fixed Charges – DUKE ENERGY OHIO, INC. (incorporated by reference to Exhibit 12.6 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).						X		
12.7	Computation of Ratio of Earnings to Fixed Charges – DUKE ENERGY INDIANA, LLC (incorporated by reference to Exhibit 12.7 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).							X	
12.8	Computation of Ratio of Earnings to Fixed Charges – PIEDMONT NATURAL GAS COMPANY, INC. (incorporated by reference to Exhibit 12.8 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).								X
21	List of Subsidiaries (incorporated by reference to Exhibit 21 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).	X							
23.1.1	Consent of Independent Registered Public Accounting Firm (incorporated by reference to Exhibit 23.1.1 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).	X							

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
23.1.2	Consent of Independent Registered Public Accounting Firm (incorporated by reference to Exhibit 23.1.2 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).		X						
23.1.3	Consent of Independent Registered Public Accounting Firm (incorporated by reference to Exhibit 23.1.3 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).				X				
23.1.4	Consent of Independent Registered Public Accounting Firm (incorporated by reference to Exhibit 23.1.5 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).					X			
23.1.5	Consent of Independent Registered Public Accounting Firm (incorporated by reference to Exhibit 23.1.5 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).						X		
23.1.6	Consent of Independent Registered Public Accounting Firm (incorporated by reference to Exhibit 23.1.6 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).							X	
23.1.7	Consent of Independent Registered Public Accounting Firm (incorporated by reference to Exhibit 23.1.7 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).								X
24.1	Power of attorney authorizing Lynn J. Good and others to sign the annual report on behalf of the registrant and certain of its directors and officers (incorporated by reference to Exhibit 24.1 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).	X							
24.2	Certified copy of resolution of the Board of Directors of the registrant authorizing power of attorney incorporated by reference to Exhibit 24.2 to registrant's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).	X							
*31.1.1	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	X							
*31.1.2	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.		X						
*31.1.3	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.			X					
*31.1.4	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X				
*31.1.5	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.					X			
*31.1.6	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.						X		
*31.1.7	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.							X	
*31.1.8	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.								X
*31.2.1	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	X							
*31.2.2	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.		X						
*31.2.3	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.			X					
*31.2.4	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X				
*31.2.5	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.					X			

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
*31.2.6	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.						X		
*31.2.7	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.							X	
*31.2.8	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.								X
*32.1.1	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.	X							
*32.1.2	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.		X						
*32.1.3	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.			X					
*32.1.4	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.				X				
*32.1.5	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.					X			
*32.1.6	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.						X		
*32.1.7	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.							X	
*32.1.8	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.								X
*32.2.1	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.	X							
*32.2.2	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.		X						
*32.2.3	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.			X					
*32.2.4	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.				X				
*32.2.5	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.					X			
*32.2.6	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.						X		
*32.2.7	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.							X	
*32.2.8	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.								X
*101.INS	XBRL Instance Document	X	X	X	X	X	X	X	X
*101.SCH	XBRL Taxonomy Extension Schema Document	X	X	X	X	X	X	X	X
*101.CAL	XBRL Taxonomy Calculation Linkbase Document	X	X	X	X	X	X	X	X
*101.LAB	XBRL Taxonomy Label Linkbase Document	X	X	X	X	X	X	X	X
*101.PRE	XBRL Taxonomy Presentation Linkbase Document	X	X	X	X	X	X	X	X
*101.DEF	XBRL Taxonomy Definition Linkbase Document	X	X	X	X	X	X	X	X

The total amount of securities of each respective registrant or its subsidiaries authorized under any instrument with respect to long-term debt not filed as an exhibit does not exceed 10 percent of the total assets of such registrant and its subsidiaries on a consolidated basis. Each registrant agrees, upon request of the SEC, to furnish copies of any or all of such instruments to it.

PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrants have duly caused this report to be signed on their behalf by the undersigned, thereunto duly authorized.

Date: February 22, 2018

DUKE ENERGY CORPORATION
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chairman, President and Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chairman, President and Chief Executive Officer (Principal Executive Officer and Director)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ WILLIAM E. CURRENS JR.
William E. Currens Jr.
Senior Vice President, Chief Accounting Officer and Controller (Principal Accounting Officer)
- (iv) Directors:
- | | |
|--------------------------|--------------------------|
| Michael G. Browning* | James B. Hyler, Jr.* |
| Theodore F. Craver, Jr.* | William E. Kennard* |
| Robert M. Davis* | E. Marie McKee* |
| Daniel R. DiMicco* | Charles W. Moorman IV* |
| John H. Forsgren* | Carlos A. Saladrigas* |
| Lynn J. Good* | Thomas E. Skains* |
| John T. Herron* | William E. Webster, Jr.* |

Steven K. Young, by signing his name hereto, does hereby sign this document on behalf of the registrant and on behalf of each of the above-named persons previously indicated by asterisk (*) pursuant to a power of attorney duly executed by the registrant and such persons, filed with the Securities and Exchange Commission as an exhibit hereto.

By: /s/ STEVEN K. YOUNG
Attorney-In-Fact

Date: February 22, 2018

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PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 22, 2018

DUKE ENERGY CAROLINAS, LLC
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ WILLIAM E. CURRENS JR.
William E. Currens Jr.
Senior Vice President, Chief Accounting Officer and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ LYNN J. GOOD
Lynn J. Good
 - /s/ DHIAA M. JAMIL
Dhiala M. Jamil
 - /s/ LLOYD M. YATES
Lloyd M. Yates

Date: February 22, 2018

PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 22, 2018

PROGRESS ENERGY, INC.
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ WILLIAM E. CURRENS JR.
William E. Currrens Jr.
Senior Vice President, Chief Accounting Officer and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ LYNN J. GOOD
Lynn J. Good
 - /s/ JULIA S. JANSON
Julia S. Janson

Date: February 22, 2018

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PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 22, 2018

DUKE ENERGY PROGRESS, LLC
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ WILLIAM E. CURRENS JR.
William E. Currens Jr.
Senior Vice President, Chief Accounting Officer and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ DOUGLAS F ESAMANN
Douglas F Esamann
 - /s/ LYNN J. GOOD
Lynn J. Good
 - /s/ DHIAA M. JAMIL
Dhiala M. Jamil
 - /s/ JULIA S. JANSON
Julia S. Janson
 - /s/ LLOYD M. YATES
Lloyd M. Yates

Date: February 22, 2018

PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 22, 2018

DUKE ENERGY FLORIDA, LLC
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ WILLIAM E. CURRENS JR.
William E. Currens Jr.
Senior Vice President, Chief Accounting Officer and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ DOUGLAS F ESAMANN
Douglas F Esamann
 - /s/ LYNN J. GOOD
Lynn J. Good
 - /s/ DHIAA M. JAMIL
Dhiala M. Jamil
 - /s/ JULIA S. JANSON
Julia S. Janson
 - /s/ LLOYD M. YATES
Lloyd M. Yates

Date: February 22, 2018

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PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 22, 2018

DUKE ENERGY OHIO, INC.
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ WILLIAM E. CURRENS JR.
William E. Currens Jr.
Senior Vice President, Chief Accounting Officer and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ DOUGLAS F ESAMANN
Douglas F Esamann
 - /s/ LYNN J. GOOD
Lynn J. Good
 - /s/ DHIAA M. JAMIL
Dhiala M. Jamil

Date: February 22, 2018

PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 22, 2018

DUKE ENERGY INDIANA, LLC
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ WILLIAM E. CURRENS JR.
William E. Currens Jr.
Senior Vice President, Chief Accounting Officer and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ MELODY BIRMINGHAM-BYRD
Melody Birmingham-Byrd
 - /s/ DOUGLAS F ESAMANN
Douglas F Esamann
 - /s/ KELLEY A. KARN
Kelley A. Karn

Date: February 22, 2018

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PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 22, 2018

PIEDMONT NATURAL GAS COMPANY, INC.
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ WILLIAM E. CURRENS JR.
William E. Currens Jr.
Senior Vice President, Chief Accounting Officer and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ LYNN J. GOOD
Lynn J. Good
 - /s/ FRANKLIN H. YOHO
Franklin H. Yoho
 - /s/ DHIAA M. JAMIL
Dhiala M. Jamil

Date: February 22, 2018

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UNITED STATES SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

FORM 10-K

(Mark One)

☒ **ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

For the fiscal period ended December 31, 2018 or

☐ **TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

For the transition period from _____ to _____

Commission file number	Registrant, State of Incorporation or Organization, Address of Principal Executive Offices and Telephone Number	IRS Employer Identification No.
		
1-32853	DUKE ENERGY CORPORATION (a Delaware corporation) 550 South Tryon Street Charlotte, NC 28202-1803 704-382-3853	20-2777218

Commission file number	Registrant, State of Incorporation or Organization, Address of Principal Executive Offices, Telephone Number and IRS Employer Identification Number	Commission file number	Registrant, State of Incorporation or Organization, Address of Principal Executive Offices, Telephone Number and IRS Employer Identification Number
1-4928	DUKE ENERGY CAROLINAS, LLC (a North Carolina limited liability company) 526 South Church Street Charlotte, North Carolina 28202-1803 704-382-3853 56-0205520	1-3274	DUKE ENERGY FLORIDA, LLC (a Florida limited liability company) 299 First Avenue North St. Petersburg, Florida 33701 704-382-3853 59-0247770
1-15929	PROGRESS ENERGY, INC. (a North Carolina corporation) 410 South Wilmington Street Raleigh, North Carolina 27601-1748 704-382-3853 56-2155481	1-1232	DUKE ENERGY OHIO, INC. (an Ohio corporation) 139 East Fourth Street Cincinnati, Ohio 45202 704-382-3853 31-0240030
1-3382	DUKE ENERGY PROGRESS, LLC (a North Carolina limited liability company) 410 South Wilmington Street Raleigh, North Carolina 27601-1748 704-382-3853 56-0165465	1-3543	DUKE ENERGY INDIANA, LLC (an Indiana limited liability company) 1000 East Main Street Plainfield, Indiana 46168 704-382-3853 35-0594457
1-6196	PIEDMONT NATURAL GAS COMPANY, INC. (a North Carolina corporation) 4720 Piedmont Row Drive Charlotte, North Carolina 28210 704-364-3120 56-0556998		

SECURITIES REGISTERED PURSUANT TO SECTION 12(b) OF THE ACT:

<u>Registrant</u>	<u>Title of each class</u>	<u>Name of each exchange on which registered</u>
Duke Energy Corporation (Duke Energy)	Common Stock, \$0.001 par value	New York Stock Exchange LLC
Duke Energy	5.125% Junior Subordinated Debentures due January 15, 2073	New York Stock Exchange LLC
Duke Energy	5.625% Junior Subordinated Debentures due September 15, 2078	New York Stock Exchange LLC

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SECURITIES REGISTERED PURSUANT TO SECTION 12(g) OF THE ACT: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.

Duke Energy	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Duke Energy Florida, LLC (Duke Energy Florida)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Duke Energy Carolinas, LLC (Duke Energy Carolinas)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Duke Energy Ohio, Inc. (Duke Energy Ohio)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Progress Energy, Inc. (Progress Energy)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Duke Energy Indiana, LLC (Duke Energy Indiana)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Duke Energy Progress, LLC (Duke Energy Progress)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Piedmont Natural Gas Company, Inc. (Piedmont)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Exchange Act.

Yes ☐ No ☒ (Response applicable to all registrants.)

Indicate by check mark whether the registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes ☒ No ☐

Indicate by check mark whether the registrants have submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes ☒ No ☐

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K. ☐ (Only applicable to Duke Energy)

Indicate by check mark whether Duke Energy is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.: Large accelerated filer ☒ Accelerated filer ☐ Non-accelerated filer ☐ Smaller reporting company ☐ Emerging growth company ☐

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether each of Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont is a large accelerated filer, accelerated filer, non-accelerated filer, smaller reporting company, or emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.: Large accelerated filer ☐ Accelerated filer ☐ Non-accelerated filer ☒ Smaller reporting company ☐ Emerging growth company ☐

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether each of the registrants is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes ☐ No ☒

Estimated aggregate market value of the common equity held by nonaffiliates of Duke Energy at June 30, 2018. \$ 56,283,598,357

Number of shares of Common Stock, \$0.001 par value, outstanding at January 31, 2019. 727,010,882

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the Duke Energy definitive proxy statement for the 2019 Annual Meeting of the Shareholders or an amendment to this Annual Report are incorporated by reference into PART III, Items 10, 11 and 13 hereof.

This combined Form 10-K is filed separately by eight registrants: Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont (collectively the Duke Energy Registrants). Information contained herein relating to any individual registrant is filed by such registrant solely on its own behalf. Each registrant makes no representation as to information relating exclusively to the other registrants.

Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont meet the conditions set forth in General Instructions I(1)(a) and (b) of Form 10-K and are, therefore, filing this Form 10-K with the reduced disclosure format specified in General Instructions I(2) of Form 10-K.

TABLE OF CONTENTS

TABLE OF CONTENTS

FORM 10-K FOR THE YEAR ENDED December 31, 2018

Item	Page
CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING INFORMATION	
GLOSSARY OF TERMS	
PART I.	
1. BUSINESS	9
DUKE ENERGY	9
GENERAL	9
BUSINESS SEGMENTS	9
EMPLOYEES	21
EXECUTIVE OFFICERS	22
ENVIRONMENTAL MATTERS	22
DUKE ENERGY CAROLINAS	23
PROGRESS ENERGY	23
DUKE ENERGY PROGRESS	23
DUKE ENERGY FLORIDA	23
DUKE ENERGY OHIO	24
DUKE ENERGY INDIANA	24
PIEDMONT	24
1A. RISK FACTORS	24
1B. UNRESOLVED STAFF COMMENTS	32
2. PROPERTIES	33
3. LEGAL PROCEEDINGS	37
4. MINE SAFETY DISCLOSURES	37
PART II.	
5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES	38
6. SELECTED FINANCIAL DATA	39
7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS	40
7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK	83
8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA	84
9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE	259
9A. CONTROLS AND PROCEDURES	260
PART III.	
10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE	262
11. EXECUTIVE COMPENSATION	262
12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS	262
13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE	263
14. PRINCIPAL ACCOUNTING FEES AND SERVICES	263
PART IV.	
15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES	264
EXHIBIT INDEX	E-1
SIGNATURES	E-32

FORWARD LOOKING STATEMENTS

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING INFORMATION

This document includes forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. Forward-looking statements are based on management's beliefs and assumptions and can often be identified by terms and phrases that include "anticipate," "believe," "intend," "estimate," "expect," "continue," "should," "could," "may," "plan," "project," "predict," "will," "potential," "forecast," "target," "guidance," "outlook" or other similar terminology. Various factors may cause actual results to be materially different than the suggested outcomes within forward-looking statements; accordingly, there is no assurance that such results will be realized. These factors include, but are not limited to:

- State, federal and foreign legislative and regulatory initiatives, including costs of compliance with existing and future environmental requirements, including those related to climate change, as well as rulings that affect cost and investment recovery or have an impact on rate structures or market prices;
- The extent and timing of costs and liabilities to comply with federal and state laws, regulations and legal requirements related to coal ash remediation, including amounts for required closure of certain ash impoundments, are uncertain and difficult to estimate;
- The ability to recover eligible costs, including amounts associated with coal ash impoundment retirement obligations and costs related to significant weather events, and to earn an adequate return on investment through rate case proceedings and the regulatory process;
- The costs of decommissioning Crystal River Unit 3 and other nuclear facilities could prove to be more extensive than amounts estimated and all costs may not be fully recoverable through the regulatory process;
- Costs and effects of legal and administrative proceedings, settlements, investigations and claims;
- Industrial, commercial and residential growth or decline in service territories or customer bases resulting from sustained downturns of the economy and the economic health of our service territories or variations in customer usage patterns, including energy efficiency efforts and use of alternative energy sources, such as self-generation and distributed generation technologies;
- Federal and state regulations, laws and other efforts designed to promote and expand the use of energy efficiency measures and distributed generation technologies, such as private solar and battery storage, in Duke Energy service territories could result in customers leaving the electric distribution system, excess generation resources as well as stranded costs;
- Advancements in technology;
- Additional competition in electric and natural gas markets and continued industry consolidation;
- The influence of weather and other natural phenomena on operations, including the economic, operational and other effects of severe storms, hurricanes, droughts, earthquakes and tornadoes, including extreme weather associated with climate change;
- The ability to successfully operate electric generating facilities and deliver electricity to customers including direct or indirect effects to the company resulting from an incident that affects the U.S. electric grid or generating resources;
- The ability to obtain the necessary permits and approvals and to complete necessary or desirable pipeline expansion or infrastructure projects in our natural gas business;
- Operational interruptions to our natural gas distribution and transmission activities;
- The availability of adequate interstate pipeline transportation capacity and natural gas supply;
- The impact on facilities and business from a terrorist attack, cybersecurity threats, data security breaches, operational accidents, information technology failures or other catastrophic events, such as fires, explosions, pandemic health events or other similar occurrences;
- The inherent risks associated with the operation of nuclear facilities, including environmental, health, safety, regulatory and financial risks, including the financial stability of third-party service providers;
- The timing and extent of changes in commodity prices and interest rates and the ability to recover such costs through the regulatory process, where appropriate, and their impact on liquidity positions and the value of underlying assets;
- The results of financing efforts, including the ability to obtain financing on favorable terms, which can be affected by various factors, including credit ratings, interest rate fluctuations, compliance with debt covenants and conditions and general market and economic conditions;
- Credit ratings of the Duke Energy Registrants may be different from what is expected;
- Declines in the market prices of equity and fixed-income securities and resultant cash funding requirements for defined benefit pension plans, other post-retirement benefit plans and nuclear decommissioning trust funds;
- Construction and development risks associated with the completion of the Duke Energy Registrants' capital investment projects, including risks related to financing, obtaining and complying with terms of permits, meeting construction budgets and schedules and satisfying operating and environmental performance standards, as well as the ability to recover costs from customers in a timely manner, or at all;
- Changes in rules for regional transmission organizations, including changes in rate designs and new and evolving capacity markets, and risks related to obligations created by the default of other participants;
- The ability to control operation and maintenance costs;
- The level of creditworthiness of counterparties to transactions;
- Employee workforce factors, including the potential inability to attract and retain key personnel;

FORWARD LOOKING STATEMENTS

- The ability of subsidiaries to pay dividends or distributions to Duke Energy Corporation holding company (the Parent);
- The performance of projects undertaken by our nonregulated businesses and the success of efforts to invest in and develop new opportunities;
- The effect of accounting pronouncements issued periodically by accounting standard-setting bodies;
- The impact of U.S. tax legislation to our financial condition, results of operations or cash flows and our credit ratings;
- The impacts from potential impairments of goodwill or equity method investment carrying values; and
- The ability to implement our business strategy, including enhancing existing technology systems.

Additional risks and uncertainties are identified and discussed in the Duke Energy Registrants' reports filed with the SEC and available at the SEC's website at sec.gov. In light of these risks, uncertainties and assumptions, the events described in the forward-looking statements might not occur or might occur to a different extent or at a different time than described. Forward-looking statements speak only as of the date they are made and the Duke Energy Registrants expressly disclaim an obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

Glossary of Terms

The following terms or acronyms used in this Form 10-K are defined below:

Term or Acronym	Definition
2013 Settlement	Revised and Restated Stipulation and Settlement Agreement approved in November 2013 among Duke Energy Florida, the Florida OPC and other customer advocates
the 2015 Plan	Duke Energy Corporation 2015 Long-Term Incentive Plan
2017 Settlement	Second Revised and Restated Settlement Agreement in 2017 among Duke Energy Florida, the Florida OPC and other customer advocates, which replaces and supplants the 2013 Settlement
ACE	Affordable Clean Energy
ACP	Atlantic Coast Pipeline, LLC, a limited liability company owned by Dominion, Duke Energy and Southern Company Gas
ACP pipeline	The approximately 600-mile proposed interstate natural gas pipeline
AFUDC	Allowance for funds used during construction
AFS	Available for Sale
the Agents	Wells Fargo Securities, LLC, Citigroup Global Market Inc., J.P. Morgan Securities, LLC
ALJ	Administrative Law Judge
AMI	Advanced Metering Infrastructure
AMT	Alternative Minimum Tax
AOCI	Accumulated Other Comprehensive Income (Loss)
ARO	Asset Retirement Obligation
ASR	Accelerated Stock Repurchase Program
ATM	At-the-market
Audit Committee	Audit Committee of the Board of Directors
Barclays	Barclays Capital Inc.
BCWF	Benton County Wind Farm, LLC
Beckjord	Beckjord Generating Station
Belews Creek	Belews Creek Steam Station
Bison	Bison Insurance Company Limited
Board of Directors	Duke Energy Board of Directors
Brunswick	Brunswick Nuclear Plant
CAA	Clean Air Act
Cardinal	Cardinal Pipeline Company, LLC
Catawba	Catawba Nuclear Station
CC	Combined Cycle
CCR	Coal Combustion Residuals
CCS	Carbon Capture and Storage
CEPCPN	Certificate of Environmental Compatibility and Public Convenience and Necessity
CEO	Chief Executive Officer
CertainTeed	CertainTeed Gypsum NC, Inc.
Cinergy	Cinergy Corp. (collectively with its subsidiaries)
Citrus County CC	Citrus County Combined Cycle Facility
CO ₂	Carbon Dioxide
Coal Ash Act	North Carolina Coal Ash Management Act of 2014
COL	Combined Operating License
the Company	Duke Energy Corporation and its subsidiaries

Constitution	Constitution Pipeline Company, LLC
COSO	Committee of Sponsoring Organizations of the Treadway Commission
CPCN	Certificate of Public Convenience and Necessity
CPP	Clean Power Plan
CRC	Cinergy Receivables Company LLC
Crystal River Unit 3	Crystal River Unit 3 Nuclear Plant
CSA	Comprehensive Site Assessment
CSAPR	Cross-State Air Pollution Rule
CT	Combustion Turbine
CTG	China Three Gorges (Luxembourg) Energy S.à.r.l.
CWA	Clean Water Act
DATC	Duke-American Transmission Co.
D.C. Circuit Court	U.S. Court of Appeals for the District of Columbia
DCI	Distribution Capital Investment
DEFPF	Duke Energy Florida Project Finance, LLC
DEFR	Duke Energy Florida Receivables, LLC
Deloitte	Deloitte & Touche LLP, and the member firms of Deloitte Touche Tohmatsu and their respective affiliates
DEPR	Duke Energy Progress Receivables, LLC
DERF	Duke Energy Receivables Finance Company, LLC
DHHS	North Carolina Department of Health and Human Services
Directors' Savings Plan	Duke Energy Corporation Directors' Savings Plan
DOE	U.S. Department of Energy
DOJ	Department of Justice
Dominion	Dominion Resources
DRIP	Dividend Reinvestment Program
DSM	Demand Side Management
Duke Energy	Duke Energy Corporation (collectively with its subsidiaries)
Duke Energy Carolinas	Duke Energy Carolinas, LLC
Duke Energy Florida	Duke Energy Florida, LLC
Duke Energy Indiana	Duke Energy Indiana, LLC
Duke Energy Kentucky	Duke Energy Kentucky, Inc.
Duke Energy Ohio	Duke Energy Ohio, Inc.
Duke Energy Progress	Duke Energy Progress, LLC
Duke Energy Registrants	Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont
East Bend	East Bend Generating Station
the EDA	Equity Distribution Agreement
EE	Energy efficiency
EGU	Electric Generating Units
ELG	Effluent Limitations Guidelines
EPA	U.S. Environmental Protection Agency
EPC	Engineering, Procurement and Construction agreement
EPS	Earnings Per Share
ESP	Electric Security Plan

ETR	Effective tax rate
Exchange Act	Securities Exchange Act of 1934
Executive Savings Plan	Duke Energy Corporation Executive Savings Plan
FASB	Financial Accounting Standards Board
FERC	Federal Energy Regulatory Commission
FES	FirstEnergy Solutions Corp.
Fitch	Fitch Ratings, Inc.
FirstEnergy	FirstEnergy Corp.
Florida OPC	Florida Office of Public Counsel
Form S-3	Registration statement
FP&L	Florida Power & Light Company
FPSC	Florida Public Service Commission
FTR	Financial transmission rights
Fluor	Fluor Enterprises, Inc.
FV-NI	Fair value through net income
GAAP	Generally Accepted Accounting Principles in the United States
GAAP Reported Earnings	Net Income Attributable to Duke Energy Corporation
GAAP Reported EPS	Diluted EPS Attributable to Duke Energy Corporation common stockholders
GHG	Greenhouse Gas
GWh	Gigawatt-hours
Hardy Storage	Hardy Storage Company, LLC
Harris	Shearon Harris Nuclear Plant
Hines	Hines Energy Complex
I Squared	ISQ Enerlam Aggregator, L.P. and Enerlam (UK) Holding Ltd.
IBNR	Incurred but not yet reported
ICPA	Inter-Company Power Agreement
IGCC	Integrated Gasification Combined Cycle
IMR	Integrity Management Rider
International Disposal Group	Duke Energy's international business, excluding National Methanol Company
IRP	Integrated Resource Plans
IRS	Internal Revenue Service
ISFSI	Independent Spent Fuel Storage Installation
ISO	Independent System Operator
ITC	Investment Tax Credit
IURC	Indiana Utility Regulatory Commission
Investment Trusts	Grantor trusts of Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana
JDA	Joint Dispatch Agreement
KO Transmission	KO Transmission Company
KPSC	Kentucky Public Service Commission
kV	Kilovolt
LDC	Local Distribution Company
Lee Nuclear Station	William States Lee III Nuclear Station
Levy	Duke Energy Florida's proposed nuclear plant in Levy County, Florida

LIBOR	London Interbank Offered Rate
LLC	Limited Liability Company
Master Trust	Duke Energy Corporation Master Retirement Trust
McGuire	McGuire Nuclear Station
Merger Agreement	The Agreement and Plan of Merger between Duke Energy and Piedmont
MGP	Manufactured gas plant
Midwest Generation Disposal Group	Duke Energy Ohio's nonregulated Midwest generation business and Duke Energy Retail Sales, LLC
MISO	Midcontinent Independent System Operator, Inc.
MMBtu	Million British Thermal Unit
MPP	Money Purchase Pension
Moody's	Moody's Investors Service, Inc.
MTBE	Methyl tertiary butyl ether
MTEP	MISO Transmission Expansion Planning
MW	Megawatt
MVP	Multi Value Projects
MWh	Megawatt-hour
NAAQS	National Ambient Air Quality Standards
NAV	Net asset value
NAW	North Allegheny Wind, LLC
NCDEQ	North Carolina Department of Environmental Quality (formerly the North Carolina Department of Environment and Natural Resources)
NCEMC	North Carolina Electric Membership Corporation
NCEMPA	North Carolina Eastern Municipal Power Agency
NCRS	Nuclear Power Plant Cost Recovery Statutes
NCUC	North Carolina Utilities Commission
NDTF	Nuclear decommissioning trust funds
NEIL	Nuclear Electric Insurance Limited
New Source Review	New Source Review (NSR) is a CAA program that requires industrial facilities to install modern pollution control equipment when they are built or when making a change that increases emissions significantly
NYSDEC	New York State Department of Environmental Conservation
NMC	National Methanol Company
NOL	Net operating loss
NOV	Notice of violation
NO _x	Nitrogen oxide
NPDES	National Pollutant Discharge Elimination System
NPNS	Normal purchase/normal sale
NPRM	Notice of Proposed Rulemaking
NRC	U.S. Nuclear Regulatory Commission
NSR	New Source Review
NWPA	Nuclear Waste Policy Act of 1982 (as amended)
NYSE	New York Stock Exchange
Oconee	Oconee Nuclear Station
OMB	Office of Management and Budget

OPEB	Other Post-Retirement Benefit Obligations
ORS	Office of Regulatory Staff
Osprey acquisition	Duke Energy Florida's purchase of a Calpine Corporation's 599-MW combined-cycle natural gas plant in Auburndale, Florida
OTTI	Other-than-temporary impairment
OVEC	Ohio Valley Electric Corporation
the Parent	Duke Energy Corporation holding company
PCAOB	Public Company Accounting Oversight Board
PGA	Purchased Gas Adjustments
Philadelphia Utility Index	Philadelphia Sector Index
PHMSA	Pipeline and Hazardous Materials Safety Administration
Piedmont	Piedmont Natural Gas Company, Inc.
Piedmont Pension Assets	Qualified pension plan assets associated with the Retirement Plan of Piedmont
Piedmont Term Loan	Term loan facility with commitments totaling \$350M entered in June 2017
Pine Needle	Pine Needle LNG Company, LLC
Pioneer	Pioneer Transmission, LLC
PJM	PJM Interconnection, LLC
PMPA	Piedmont Municipal Power Agency
PPA	Purchase Power Agreement
Progress Energy	Progress Energy, Inc.
PSCSC	Public Service Commission of South Carolina
PTC	Production Tax Credits
PUCO	Public Utilities Commission of Ohio
PUCO Order	Order issued by PUCO approving a settlement of Duke Energy Ohio's natural gas base rate case and authorizing the recovery of certain MGP costs
PURPA	Public Utility Regulatory Policies Act of 1978
QF	Qualifying Facility
RCRA	Resource Conservation and Recovery Act
REC	Renewable Energy Certificate
REC Solar	REC Solar Corp.
Relative TSR	TSR of Duke Energy stock relative to a predefined peer group
Robinson	Robinson Nuclear Plant
RRBA	Roanoke River Basin Association
RSU	Restricted Stock Unit
RTO	Regional Transmission Organization
SAB	Staff Accounting Bulletin
Sabal Trail	Sabal Trail Transmission, LLC
Sabal Trail pipeline	Sabal Trail Natural Gas Pipeline
SAFSTOR	A method of decommissioning in which a nuclear facility is placed and maintained in a condition that allows the facility to be safely stored and subsequently decontaminated to levels that permit release for unrestricted use
SEC	Securities and Exchange Commission
SEIS	Supplemental Environmental Impact Statement
SELC	Southern Environmental Law Center
Segment Income	Income from continuing operations net of income attributable to noncontrolling interests

SO ₂	Sulfur dioxide
SouthStar	SouthStar Energy Services, LLC
Spectra Capital	Spectra Energy Capital, LLC
S&P	Standard & Poor's Rating Services
S&P 500	Standard & Poor's 500 Stock Index
SSO	Standard Service Offer
State utility commissions	NCUC, PSCSC, FPSC, PUCO, IURC, KPSC and TPUC (Collectively)
State electric utility commissions	NCUC, PSCSC, FPSC, PUCO, IURC and KPSC (Collectively)
State gas utility commissions	NCUC, PSCSC, PUCO, TPUC and KPSC (Collectively)
Subsidiary Registrants	Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont
Sutton	L.V. Sutton Combined Cycle Plant
the Tax Act	Tax Cuts and Jobs Act
TDSIC	Transmission, Distribution and Storage System Improvement Charge
Three Year Revolver	Duke Energy (Parent) \$1.0 billion revolving credit facility
TPUC	Tennessee Public Utility Commission
TSCA	Toxic Substances Control Act
TSR	Total shareholder return
U.S.	United States
U.S. Court of Appeals	U.S. Court of Appeals for the Second Circuit
VEBA	Voluntary Employees' Beneficiary Association
VIE	Variable Interest Entity
WACC	Weighted Average Cost of Capital
Westinghouse	Westinghouse Electric Company
WNA	Weather normalization adjustment
W.S. Lee CC	William States Lee Combined Cycle Facility
WVPA	Wabash Valley Power Association, Inc.

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ITEM 1. BUSINESS

DUKE ENERGY

General

Duke Energy was incorporated on May 3, 2005, and is an energy company headquartered in Charlotte, North Carolina, subject to regulation by the FERC and other regulatory agencies listed below. Duke Energy operates in the U.S. primarily through its direct and indirect subsidiaries. Certain Duke Energy subsidiaries are also subsidiary registrants, including Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont. When discussing Duke Energy's consolidated financial information, it necessarily includes the results of its separate Subsidiary Registrants, which along with Duke Energy, are collectively referred to as the Duke Energy Registrants.

Piedmont, a North Carolina corporation, is an energy services company whose principal business is the distribution of natural gas to over 1 million residential, commercial, industrial and power generation customers in portions of North Carolina, South Carolina and Tennessee, including customers served by municipalities who are Piedmont's sales for resale customers. In October 2016, Duke Energy completed the acquisition of Piedmont. Piedmont's earnings and cash flows are only included in Duke Energy's consolidated results subsequent to the acquisition date. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information regarding the acquisition.

In December 2016, Duke Energy completed an exit of the Latin American market to focus on its domestic regulated business, which was further bolstered by the acquisition of Piedmont. The sale of the International Energy business segment, excluding an equity method investment in NMC, was completed through two transactions including a sale of assets in Brazil to CTG and a sale of Duke Energy's remaining Latin American assets in Peru, Chile, Ecuador, Guatemala, El Salvador and Argentina to I Squared (collectively, the International Disposal Group). See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information on the sale of International Energy.

The Duke Energy Registrants electronically file reports with the SEC, including Annual Reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, proxy statements and amendments to such reports.

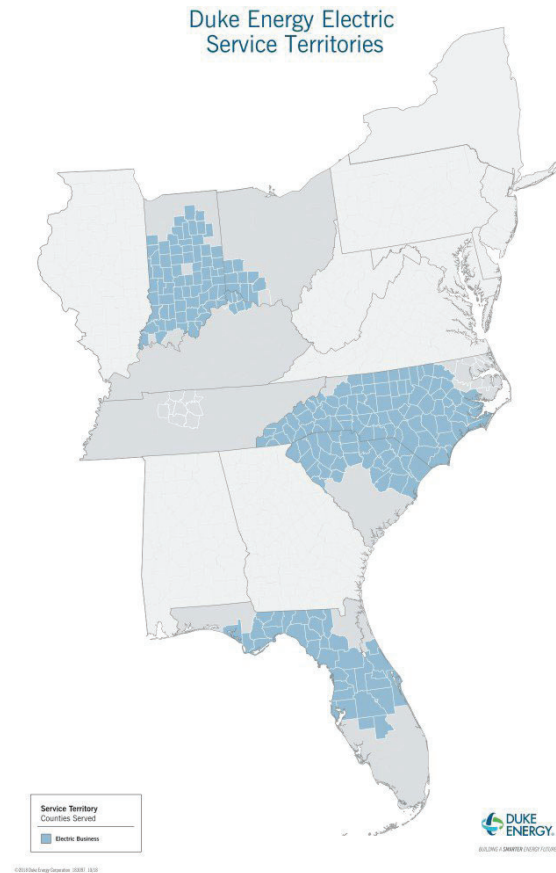
The SEC maintains an internet site that contains reports, proxy and information statements and other information regarding issuers that file electronically with the SEC at sec.gov. Additionally, information about the Duke Energy Registrants, including reports filed with the SEC, is available through Duke Energy's website at duke-energy.com. Such reports are accessible at no charge and are made available as soon as reasonably practicable after such material is filed with or furnished to the SEC.

Business Segments

Duke Energy's segment structure includes three reportable business segments: Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables. The remainder of Duke Energy's operations is presented as Other. Duke Energy's chief operating decision-maker routinely reviews financial information about each of these business segments in deciding how to allocate resources and evaluate the performance of the business. For additional information on each of these business segments, including financial and geographic information, see Note 3 to the Consolidated Financial Statements, "Business Segments." The following sections describe the business and operations of each of Duke Energy's business segments, as well as Other.

ELECTRIC UTILITIES AND INFRASTRUCTURE

Electric Utilities and Infrastructure conducts operations primarily through the regulated public utilities of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida, Duke Energy Indiana and Duke Energy Ohio. Electric Utilities and Infrastructure provides retail electric service through the generation, transmission, distribution and sale of electricity to approximately 7.7 million customers within the Southeast and Midwest regions of the U.S. The service territory is approximately 95,000 square miles across six states with a total estimated population of 24 million people. The operations include electricity sold wholesale to municipalities, electric cooperative utilities and other load-serving entities. Electric Utilities and Infrastructure is also a joint owner in certain electric transmission projects. Electric Utilities and Infrastructure has a 50 percent ownership interest in DATC, a partnership with American Transmission Company, formed to design, build and operate transmission infrastructure. DATC owns 72 percent of the transmission service rights to Path 15, an 84-mile transmission line in central California. Electric Utilities and Infrastructure also has a 50 percent ownership interest in Pioneer Transmission, LLC, which builds, owns and operates electric transmission facilities in North America. The following map shows the service territory for Electric Utilities and Infrastructure as of December 31, 2018.



The electric operations and investments in projects are subject to the rules and regulations of the FERC, the NRC, the NCUC, the PSCSC, the FPSC, the IURC, the PUCO and the KPSC.

The following table represents the distribution of billed sales by customer class for the year ended December 31, 2018.

	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Residential	32%	27%	50%	37%	28%
General service	32%	23%	37%	38%	25%
Industrial	24%	15%	7%	23%	31%
Total retail sales	88%	65%	94%	98%	84%
Wholesale and other sales	12%	35%	6%	2%	16%
Total sales	100%	100%	100%	100%	100%

The number of residential and general service customers within the Electric Utilities and Infrastructure service territory is expected to increase over time. While economic conditions within the service territory remain strong, sales growth continues to be influenced by adoption of energy efficiencies and self-generation. Residential sales for 2018 compared to 2017 saw relatively strong growth despite the impact from increasing amounts of energy efficiency. However, the continued adoption of more efficient housing and appliances is expected to have a negative impact on average usage per residential customer over time.

Seasonality and the Impact of Weather

Revenues and costs are influenced by seasonal weather patterns. Peak sales of electricity occur during the summer and winter months, which results in higher revenue and cash flows during these periods. By contrast, lower sales of electricity occur during the spring and fall, allowing for scheduled plant maintenance. Residential and general service customers are more impacted by weather than industrial customers. Estimated weather impacts are based on actual current period weather compared to normal weather conditions. Normal weather conditions are defined as the long-term average of actual historical weather conditions.

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The estimated impact of weather on earnings is based on the temperature variances from a normal condition and customers' historic usage patterns. The methodology used to estimate the impact of weather does not consider all variables that may impact customer response to weather conditions such as humidity in the summer or wind chill in the winter. The precision of this estimate may also be impacted by applying long-term weather trends to shorter-term periods.

Heating-degree days measure the variation in weather based on the extent the average daily temperature falls below a base temperature. Cooling-degree days measure the variation in weather based on the extent the average daily temperature rises above the base temperature. Each degree of temperature below the base temperature counts as one heating-degree day and each degree of temperature above the base temperature counts as one cooling-degree day.

Competition

Retail

Electric Utilities and Infrastructure's businesses operate as the sole supplier of electricity within their service territories, with the exception of Ohio, which has a competitive electricity supply market for generation service. Electric Utilities and Infrastructure owns and operates facilities necessary to transmit, distribute and generate electricity. Services are priced by state commission approved rates designed to include the costs of providing these services and a reasonable return on invested capital. This regulatory policy is intended to provide safe and reliable electricity at fair prices.

In Ohio, Electric Utilities and Infrastructure conducts competitive auctions for electricity supply. The cost of energy purchased through these auctions is recovered from retail customers. Electric Utilities and Infrastructure earns retail margin in Ohio on the transmission and distribution of electricity, but not on the cost of the underlying energy.

Competition in the regulated electric distribution business is primarily from the development and deployment of alternative energy sources including on-site generation from industrial customers and distributed generation, such as private solar, at residential, general service and/or industrial customer sites.

Wholesale

Duke Energy competes with other utilities and merchant generators for bulk power sales, sales to municipalities and cooperatives and wholesale transactions under primarily cost-based contracts approved by FERC. The principal factors in competing for these sales are availability of capacity and power, reliability of service and price. Prices are influenced primarily by market conditions and fuel costs.

Increased competition in the wholesale electric utility industry and the availability of transmission access could affect Electric Utilities and Infrastructure's load forecasts, plans for power supply and wholesale energy sales and related revenues. Wholesale energy sales will be impacted by the extent to which additional generation is available to sell to the wholesale market and the ability of Electric Utilities and Infrastructure to attract new customers and to retain existing customers.

Energy Capacity and Resources

Electric Utilities and Infrastructure owns approximately 50,880 MW of generation capacity. For additional information on owned generation facilities, see Item 2, "Properties."

Energy and capacity are also supplied through contracts with other generators and purchased on the open market. Factors that could cause Electric Utilities and Infrastructure to purchase power for its customers may include, but are not limited to, generating plant outages, extreme weather conditions, generation reliability, demand growth and price. Electric Utilities and Infrastructure has interconnections and arrangements with its neighboring utilities to facilitate planning, emergency assistance, sale and purchase of capacity and energy and reliability of power supply.

Electric Utilities and Infrastructure's generation portfolio is a balanced mix of energy resources having different operating characteristics and fuel sources designed to provide energy at the lowest possible cost to meet its obligation to serve retail customers. All options, including owned generation resources and purchased power opportunities, are continually evaluated on a real-time basis to select and dispatch the lowest-cost resources available to meet system load requirements.

BUSINESS

Sources of Electricity

Electric Utilities and Infrastructure relies principally on coal, nuclear fuel and natural gas for its generation of electricity. The following table lists sources of electricity and fuel costs for the three years ended December 31, 2018.

	Generation by Source			Cost of Delivered Fuel per Net Kilowatt-hour Generated (Cents)		
	2018	2017	2016	2018	2017	2016
Coal ^(a)	24.4%	27.4%	27.1%	2.82	2.72	3.07
Nuclear ^(a)	26.0%	27.8%	27.4%	0.50	0.69	0.66
Natural gas and oil ^(a)	26.2%	23.6%	22.9%	3.57	2.85	3.07
All fuels (cost-based on weighted average) ^(a)	76.6%	78.8%	77.4%	2.29	2.04	2.22
Hydroelectric and solar ^(b)	1.3%	0.7%	0.7%			
Total generation	77.9%	79.5%	78.1%			
Purchased power and net interchange	22.1%	20.5%	21.9%			
Total sources of energy	100.0%	100.0%	100.0%			

- (a) Statistics related to all fuels reflect Electric Utilities and Infrastructure's ownership interest in jointly owned generation facilities.
(b) Generating figures are net of output required to replenish pumped storage facilities during off-peak periods.

Coal

Electric Utilities and Infrastructure meets its coal demand through a portfolio of long-term purchase contracts and short-term spot market purchase agreements. Large amounts of coal are purchased under long-term contracts with mining operators who mine both underground and at the surface. Electric Utilities and Infrastructure uses spot market purchases to meet coal requirements not met by long-term contracts. Expiration dates for its long-term contracts, which have various price adjustment provisions and market reopeners, range from 2019 to 2021 for Duke Energy Carolinas, Duke Energy Progress and Duke Energy Ohio, 2019 to 2020 for Duke Energy Florida and 2019 to 2025 for Duke Energy Indiana. Electric Utilities and Infrastructure expects to renew these contracts or enter into similar contracts with other suppliers as existing contracts expire, though prices will fluctuate over time as coal markets change. Electric Utilities and Infrastructure has an adequate supply of coal under contract to meet its hedging guidelines regarding projected future consumption. As a result of volatility in natural gas prices and the associated impacts on coal-fired dispatch within the generation fleet, coal inventories will continue to fluctuate. Electric Utilities and Infrastructure continues to actively manage its portfolio and has worked with suppliers to obtain increased flexibility in its coal contracts.

Coal purchased for the Carolinas is primarily produced from mines in Central Appalachia, Northern Appalachia and the Illinois Basin. Coal purchased for Florida is primarily produced from mines in Colorado and the Illinois Basin. Coal purchased for Kentucky is produced from mines along the Ohio River in Illinois, Ohio, West Virginia and Pennsylvania. Coal purchased for Indiana is primarily produced in Indiana and Illinois. The current average sulfur content of coal purchased by Electric Utilities and Infrastructure is between 1.5 percent and 2 percent for Duke Energy Carolinas and Duke Energy Progress, between 1 percent and 3 percent for Duke Energy Florida, between 3 percent and 3.5 percent for Duke Energy Ohio and between 2.5 percent and 3 percent for Duke Energy Indiana. Electric Utilities and Infrastructure's environmental controls, in combination with the use of SO₂ emission allowances, enable Electric Utilities and Infrastructure to satisfy current SO₂ emission limitations for its existing facilities.

Nuclear

The industrial processes for producing nuclear generating fuel generally involve the mining and milling of uranium ore to produce uranium concentrates and services to convert, enrich and fabricate fuel assemblies.

Electric Utilities and Infrastructure has contracted for uranium materials and services to fuel its nuclear reactors. Uranium concentrates, conversion services and enrichment services are primarily met through a diversified portfolio of long-term supply contracts. The contracts are diversified by supplier, country of origin and pricing. Electric Utilities and Infrastructure staggers its contracting so that its portfolio of long-term contracts covers the majority of its fuel requirements in the near term and decreasing portions of its fuel requirements over time thereafter. Near-term requirements not met by long-term supply contracts have been and are expected to be fulfilled with spot market purchases. Due to the technical complexities of changing suppliers of fuel fabrication services, Electric Utilities and Infrastructure generally sources these services to a single domestic supplier on a plant-by-plant basis using multiyear contracts.

Electric Utilities and Infrastructure has entered into fuel contracts that cover 100 percent of its uranium concentrates, conversion services and enrichment services requirements through at least 2019 and cover fabrication services requirements for these plants through at least 2027. For future requirements not already covered under long-term contracts, Electric Utilities and Infrastructure believes it will be able to renew contracts as they expire or enter into similar contractual arrangements with other suppliers of nuclear fuel materials and services.

Natural Gas and Fuel Oil

Natural gas and fuel oil supply, transportation and storage for Electric Utilities and Infrastructure's generation fleet is purchased under standard industry agreements from various suppliers, including Piedmont. Natural gas supply agreements typically provide for a percentage of forecasted burns being procured over time, with varied expiration dates. Electric Utilities and Infrastructure believes it has access to an adequate supply of natural gas and fuel oil for the reasonably foreseeable future.

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Electric Utilities and Infrastructure has certain dual-fuel generating facilities that can operate utilizing both natural gas and fuel oil. The cost of Electric Utilities and Infrastructure's natural gas and fuel oil is fixed price or determined by published market prices as reported in certain industry publications, plus any transportation and freight costs. Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana use derivative instruments to manage a portion of their exposure to price fluctuations for natural gas. For Duke Energy Florida, there is currently an agreed to moratorium on future hedging with the FPSC.

Electric Utilities and Infrastructure has firm interstate and intrastate natural gas transportation agreements and storage agreements in place to support generation needed for load requirements. Electric Utilities and Infrastructure may purchase additional shorter-term natural gas transportation and utilize natural gas interruptible transportation agreements to support generation needed for load requirements. The Electric Utilities and Infrastructure natural gas plants are served by various supply zones and multiple pipelines.

Purchased Power

Electric Utilities and Infrastructure purchases a portion of its capacity and system requirements through purchase obligations, leases and purchase capacity contracts. Electric Utilities and Infrastructure believes it can obtain adequate purchased power capacity to meet future system load needs. However, during periods of high demand, the price and availability of purchased power may be significantly affected.

The following table summarizes purchased power for the previous three years:

	2018	2017	2016
Purchase obligations and leases (in millions of MWh) ^(a)	21.3	17.7	18.0
Purchase capacity under contract (in MW) ^(b)	4,025	4,028	4,588

(a) Represents approximately 7 percent of total system requirements for 2018, 2017 and 2016.

(b) These agreements include approximately 412 MW of firm capacity under contract by Duke Energy Florida with QFs.

Inventory

Electric Utilities and Infrastructure must maintain an adequate stock of fuel and materials and supplies in order to ensure continuous operation of generating facilities and reliable delivery to customers. As of December 31, 2018, the inventory balance for Electric Utilities and Infrastructure was approximately \$2.9 billion. For additional information on inventory, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

Ash Basin Management

During 2015, EPA regulations were enacted related to the management of CCR from power plants. These regulations classify CCR as nonhazardous waste under the RCRA and apply to electric generating sites with new and existing landfills, new and existing surface impoundments, structural fills and CCR piles, and establishes requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring, protection and remedial procedures and other operational and reporting procedures for the disposal and management of CCR. In addition to the federal regulations, CCR landfills and surface impoundments (ash basins or impoundments) will continue to be independently regulated by existing state laws, regulations and permits, including the Coal Ash Act in North Carolina.

Electric Utilities and Infrastructure has and will periodically submit to applicable authorities required site-specific coal ash impoundment remediation or closure plans. These plans and all associated permits must be approved before any work can begin. Closure activities began in 2015 at the four sites specified as high priority by the Coal Ash Act and at the W.S. Lee Steam Station site in South Carolina in connection with other legal requirements. Excavation at these sites involves movement of CCR materials to off-site locations for use as structural fill, to appropriate engineered off-site or on-site lined landfills or conversion of the ash for beneficial use. At other sites, preliminary planning and closure methods have been studied and factored into the estimated retirement and management costs. The Coal Ash Act requires CCR surface impoundments in North Carolina to be closed, with the closure method and timing based on a risk ranking classification determined by legislation or state regulators. Additionally, the RCRA required closure timing depends upon meeting or continuing to meet certain criteria.

The Coal Ash Act leaves the decision on cost recovery determinations related to closure of coal ash surface impoundments to the normal ratemaking processes before utility regulatory commissions. Duke Energy Carolinas and Duke Energy Progress have included compliance costs associated with the EPA CCR rule and the Coal Ash Act in their respective rate case filings. During 2017, Duke Energy Carolinas' and Duke Energy Progress' wholesale contracts were amended to include the recovery of expenditures related to asset retirement obligations for the closure of coal ash basins. The amended contracts have retail disallowance parity or provisions limiting challenges to CCR cost recovery actions at FERC. FERC approved the amended wholesale rate schedules in 2017. For additional information on the ash basins and recovery, see Item 7, "Other Matters" and Notes 4, 5 and 9 to the Consolidated Financial Statements, "Regulatory Matters," "Commitments and Contingencies" and "Asset Retirement Obligations," respectively.

Nuclear Matters

Duke Energy owns, wholly or partially, 11 operating nuclear reactors located at six operating stations. The Crystal River Unit 3 permanently ceased operation in February 2013. Nuclear insurance includes: nuclear liability coverage; property damage coverage; nuclear accident decontamination and premature decommissioning coverage; and accidental outage coverage for losses in the event of a major accidental outage. Joint owners reimburse Duke Energy for certain expenses associated with nuclear insurance in accordance with joint owner agreements. The Price-Anderson Act requires plant owners to provide for public nuclear liability claims resulting from nuclear incidents to the maximum total financial protection liability, which is approximately \$14.1 billion. For additional information on nuclear insurance see Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies."

BUSINESS

Duke Energy has a significant future financial commitment to dispose of spent nuclear fuel and decommission and decontaminate each plant safely. The NCUC, PSCSC and FPSC require Duke Energy to update their cost estimates for decommissioning their nuclear plants every five years.

The following table summarizes the fair value of NDTF balances and the most recent site-specific nuclear decommissioning cost study results for Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida. Decommissioning costs are stated in 2018 dollars for Duke Energy Carolinas, 2017 dollars for Duke Energy Florida and 2014 dollars for Duke Energy Progress, and include costs to decommission plant components not subject to radioactive contamination.

(in millions)	NDTF ^(a)		Decommissioning	
	December 31, 2018	December 31, 2017	Costs ^(a)	Year of Cost Study
Duke Energy	\$ 6,720	\$ 7,097	\$ 8,737	2014 and 2018
Duke Energy Carolinas ^{(b)(c)}	3,558	3,772	4,291	2018
Duke Energy Progress	2,503	2,588	3,550	2014
Duke Energy Florida ^(d)	659	736	896	2018

- (a) Amounts for Progress Energy equal the sum of Duke Energy Progress and Duke Energy Florida.
- (b) Decommissioning cost for Duke Energy Carolinas reflects its ownership interest in jointly owned reactors. Other joint owners are responsible for decommissioning costs related to their interest in the reactors.
- (c) Duke Energy Carolinas' site-specific nuclear decommissioning cost study completed in 2018 is expected to be filed with the NCUC and PSCSC by the second quarter 2019. Duke Energy Carolinas will also complete a new funding study, which will be completed and filed with the NCUC and PSCSC in 2019.
- (d) Duke Energy Florida's site-specific nuclear decommissioning cost study and a new funding study were completed and filed with the FPSC in 2018. For the years ended December 31, 2017 and December 31, 2018, Duke Energy Florida received reimbursements from the NDTF for costs related to ongoing decommissioning activity of Crystal River Unit 3.

The NCUC, PSCSC, FPSC and FERC have allowed Electric Utilities and Infrastructure to recover estimated decommissioning costs through retail and wholesale rates over the expected remaining service periods of their nuclear stations. Electric Utilities and Infrastructure believes the decommissioning costs being recovered through rates, when coupled with the existing fund balances and expected fund earnings, will be sufficient to provide for the cost of future decommissioning. For additional information, see Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations."

The NWSA provides the framework for development by the federal government of interim storage and permanent disposal facilities for high-level radioactive waste materials. The government has not yet developed a storage facility or disposal capacity, so Electric Utilities and Infrastructure will continue to store spent fuel on its reactor sites.

Under federal law, the DOE is responsible for the selection and construction of a facility for the permanent disposal of spent nuclear fuel and high-level radioactive waste. The DOE terminated the project to license and develop a geologic repository at Yucca Mountain, Nevada in 2010, and is currently taking no action to fulfill its responsibilities to dispose of spent fuel.

Until the DOE begins to accept the spent nuclear fuel, Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida will continue to safely manage their spent nuclear fuel. Under current regulatory guidelines, Harris has sufficient storage capacity in its spent fuel pools through the expiration of its renewed operating license. Crystal River Unit 3 ceased operation in 2013 and was placed in a SAFSTOR condition in January 2018. As of January 2018, all spent fuel at Crystal River Unit 3 has been transferred from the spent fuel pool to dry storage at an on-site ISFSI. With certain modifications and approvals by the NRC to expand the on-site dry cask storage facilities, spent nuclear fuel dry storage facilities will be sufficient to provide storage space of spent fuel through the expiration of the operating licenses, including any license renewals, for Brunswick, Catawba, McGuire, Oconee and Robinson.

The nuclear power industry faces uncertainties with respect to the cost and long-term availability of disposal sites for spent nuclear fuel and other radioactive waste, compliance with changing regulatory requirements, capital outlays for modifications and new plant construction.

BUSINESS

Electric Utilities and Infrastructure is subject to the jurisdiction of the NRC for the design, construction and operation of its nuclear generating facilities. The following table includes the current year of expiration of nuclear operating licenses for nuclear stations in operation. Nuclear operating licenses are potentially subject to extension.

Unit	Year of Expiration
Duke Energy Carolinas	
Catawba Units 1 and 2	2043
McGuire Unit 1	2041
McGuire Unit 2	2043
Oconee Units 1 and 2	2033
Oconee Unit 3	2034
Duke Energy Progress	
Brunswick Unit 1	2036
Brunswick Unit 2	2034
Harris	2046
Robinson	2030

The NRC has acknowledged permanent cessation of operation and permanent removal of fuel from the reactor vessel at Crystal River Unit 3. Therefore, the license no longer authorizes operation of the reactor. For additional information on nuclear decommissioning activity, see Notes 4 and 9 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively.

On October 27, 2016, and December 15, 2016, the NRC issued combined operating licenses for Levy and Lee Nuclear Station, respectively. On August 29, 2017, Duke Energy announced the complete abandonment of the Levy project; the operating license was formally terminated on April 26, 2018. On August 25, 2017, as part of Duke Energy Carolinas rate case filing, Duke Energy Carolinas requested NCUC approval to cancel the development of the Lee Nuclear Station project with the intent to maintain the combined operating licenses. For additional information on the Lee Nuclear Station, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

Regulation

State

The NCUC, PSCSC, FPSC, PUCO, IURC and KPSC (collectively, the state electric utility commissions) approve rates for Duke Energy's retail electric service within their respective states. The state electric utility commissions, to varying degrees, have authority over the construction and operation of Electric Utilities and Infrastructure's generating facilities. CPCN issued by the state electric utility commissions, as applicable, authorize Electric Utilities and Infrastructure to construct and operate its electric facilities and to sell electricity to retail and wholesale customers. Prior approval from the relevant state electric utility commission is required for the entities within Electric Utilities and Infrastructure to issue securities. The underlying concept of utility ratemaking is to set rates at a level that allows the utility to collect revenues equal to its cost of providing service plus earn a reasonable rate of return on its invested capital, including equity.

In addition to rates approved in base rate cases, each of the state electric utility commissions allow recovery of certain costs through various cost-recovery clauses to the extent the respective commission determines in periodic hearings that such costs, including any past over or under-recovered costs, are prudent.

Fuel, fuel-related costs and certain purchased power costs are eligible for recovery by Electric Utilities and Infrastructure. Electric Utilities and Infrastructure uses coal, hydroelectric, natural gas, oil, renewable generation and nuclear fuel to generate electricity, thereby maintaining a diverse fuel mix that helps mitigate the impact of cost increases in any one fuel. Due to the associated regulatory treatment and the method allowed for recovery, changes in fuel costs from year to year have no material impact on operating results of Electric Utilities and Infrastructure, unless a commission finds a portion of such costs to have been imprudent. However, delays between the expenditure for fuel costs and recovery from customers can adversely impact the timing of cash flows of Electric Utilities and Infrastructure.

BUSINESS

The table below reflects significant electric rate case applications approved and effective in the past three years or applications currently pending approval.

	Regulatory Body	Annual Increase (Decrease) (in millions)	Return on Equity	Equity Component of Capital Structure	Effective Date
Approved Rate Cases:					
Duke Energy Carolinas 2017 North Carolina Rate Case	NCUC	\$ (73)	9.9%	52%	8/1/2018
Duke Energy Progress 2017 North Carolina Rate Case	NCUC	151	9.9%	52%	3/16/2018
Duke Energy Ohio 2017 Ohio Electric Rate Case	PUCO	(19)	9.84%	50.75%	1/2/2019
Duke Energy Kentucky 2017 Kentucky Electric Rate Case	KPSC	8	9.725%	49%	5/1/2018
Duke Energy Progress 2016 South Carolina Rate Case	PSCSC	(a)	10.1%	53%	1/1/2017
Pending Rate Cases:					
Duke Energy Carolinas 2018 South Carolina Rate Case	PSCSC	\$ 168	10.5%	53%	6/1/2019
Duke Energy Progress 2018 South Carolina Rate Case	PSCSC	59	10.5%	53%	6/1/2019

(a) An increase of approximately \$38 million in revenues was effective January 1, 2017, and an additional increase of approximately \$19 million in revenues was effective January 1, 2018.

For more information on rate matters and other regulatory proceedings, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

Federal

The FERC approves Electric Utilities and Infrastructure's cost-based rates for electric sales to certain power and transmission wholesale customers. Regulations of FERC and the state electric utility commissions govern access to regulated electric and other data by nonregulated entities and services provided between regulated and nonregulated energy affiliates. These regulations affect the activities of nonregulated affiliates with Electric Utilities and Infrastructure.

Regional Transmission Organizations (RTO). PJM and MISO are the ISOs and FERC-approved RTOs for the regions in which Duke Energy Ohio and Duke Energy Indiana operate. PJM and MISO operate energy, capacity and other markets, and control the day-to-day operations of bulk power systems through central dispatch.

Duke Energy Ohio is a member of PJM and Duke Energy Indiana is a member of MISO. Transmission owners in these RTOs have turned over control of their transmission facilities and their transmission systems are currently under the dispatch control of the RTOs. Transmission service is provided on a nationwide, open-access basis using the transmission facilities of the RTO members at rates based on the costs of transmission service.

Environmental. Electric Utilities and Infrastructure is subject to the jurisdiction of the EPA and state and local environmental agencies. For a discussion of environmental regulation, see "Environmental Matters" in this section. See the "Other Matters" section of Management's Discussion and Analysis for a discussion about potential Global Climate Change legislation and other EPA regulations under development and the potential impacts such legislation and regulation could have on Duke Energy's operations.

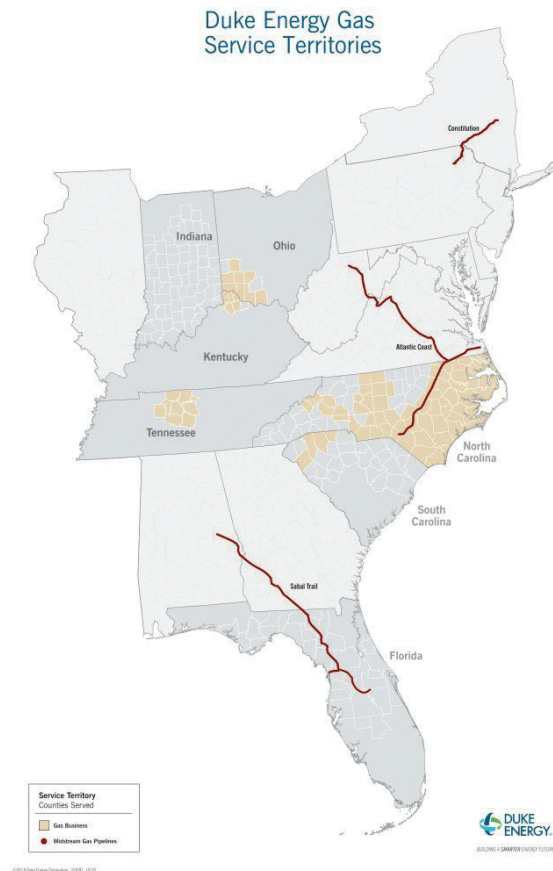
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GAS UTILITIES AND INFRASTRUCTURE

Gas Utilities and Infrastructure conducts natural gas operations primarily through the regulated public utilities of Piedmont and Duke Energy Ohio. The natural gas operations are subject to the rules and regulations of the NCUC, PSCSC, PUCO, KPSC, TPUC, PHMSA and the FERC. Gas Utilities and Infrastructure serves residential, commercial, industrial and power generation natural gas customers, including customers served by municipalities who are wholesale customers. Gas Utilities and Infrastructure has over 1.6 million customers, including more than 1.1 million customers located in North Carolina, South Carolina and Tennessee, and an additional 531,000 customers located within southwestern Ohio and northern Kentucky. In the Carolinas, Ohio and Kentucky, the service areas are comprised of numerous cities, towns and communities. In Tennessee, the service area is the metropolitan area of Nashville. The following map shows the service territory and investments in operating and proposed midstream properties for Gas Utilities and Infrastructure as of December 31, 2018.



The number of residential, commercial and industrial customers within the Gas Utilities and Infrastructure service territory is expected to increase over time. Average usage per residential customer is expected to remain flat or decline for the foreseeable future, however decoupled rates in North Carolina and various rate design mechanisms in other jurisdictions partially mitigate the impact of the declining usage per customer on overall profitability. While total industrial and general service sales increased in 2018 when compared to 2017, the growth rate was modest when compared to historical periods.

Gas Utilities and Infrastructure also owns, operates and has investments in various pipeline transmission and natural gas storage facilities.

Natural Gas for Retail Distribution

Gas Utilities and Infrastructure is responsible for the distribution of natural gas to retail customers in its North Carolina, South Carolina, Tennessee, Ohio and Kentucky service territories. Gas Utilities and Infrastructure's natural gas procurement strategy is to contract primarily with major and independent producers and marketers for natural gas supply. It also purchases a diverse portfolio of transportation and storage service from interstate pipelines. This strategy allows Gas Utilities and Infrastructure to assure reliable natural gas supply and transportation for its firm customers during peak winter conditions. When firm pipeline services or contracted natural gas supplies are temporarily not needed due to market demand fluctuations, Gas Utilities and Infrastructure may release these services and supplies in the secondary market under FERC-approved capacity release provisions or make wholesale secondary market sales. In 2018, firm supply purchase commitment agreements provided 100 percent of the natural gas supply for both Piedmont and Duke Energy Ohio.

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Impact of Weather

Gas Utilities and Infrastructure revenues are generally protected from the impact of weather fluctuations due to the regulatory mechanisms that are available in most service territories. In North Carolina, margin decoupling provides protection from both weather and other usage variations like conservation for residential and commercial customer classes. Margin decoupling provides a set revenue per customer independent of actual usage. In South Carolina and Tennessee, weather normalization adjusts revenues either up or down depending on how much warmer or colder than normal a given month has been. Weather normalization adjustments occur from November through March in South Carolina and from October through April in Tennessee. Ohio collects most of its non-fuel revenue through a fixed monthly charge that is not impacted by usage fluctuations that result from weather changes or conservation. Kentucky, however, bills based on volumetric rates without weather protection.

Competition

Gas Utilities and Infrastructure's businesses operate as the sole provider of natural gas service within their retail service territories. Gas Utilities and Infrastructure owns and operates facilities necessary to transport and distribute natural gas. Gas Utilities and Infrastructure earns retail margin on the transmission and distribution of natural gas and not on the cost of the underlying commodity. Services are priced by state commission approved rates designed to include the costs of providing these services and a reasonable return on invested capital. This regulatory policy is intended to provide safe and reliable natural gas service at fair prices.

In residential, commercial and industrial customer markets, natural gas distribution operations compete with other companies that supply energy, primarily electric companies, propane and fuel oil dealers, renewable energy providers and coal companies in relation to sources of energy for electric power plants, as well as nuclear energy. A significant competitive factor is price. Gas Utilities and Infrastructure's primary product competition is with electricity for heating, water heating and cooking. Increases in the price of natural gas or decreases in the price of other energy sources could negatively impact competitive position by decreasing the price benefits of natural gas to the consumer. In the case of industrial customers, such as manufacturing plants, adverse economic or market conditions, including higher natural gas costs, could cause these customers to suspend business operations or to use alternative sources of energy in favor of energy sources with lower per-unit costs.

Higher natural gas costs or decreases in the price of other energy sources may allow competition from alternative energy sources for applications that have traditionally used natural gas, encouraging some customers to move away from natural gas-fired equipment to equipment fueled by other energy sources. Competition between natural gas and other forms of energy is also based on efficiency, performance, reliability, safety and other non-price factors. Technological improvements in other energy sources and events that impair the public perception of the non-price attributes of natural gas could erode our competitive advantage. These factors in turn could decrease the demand for natural gas, impair our ability to attract new customers and cause existing customers to switch to other forms of energy or to bypass our systems in favor of alternative competitive sources. This could result in slow or no customer growth and could cause customers to reduce or cease using our product, thereby reducing our ability to make capital expenditures and otherwise grow our business, adversely affecting our earnings.

Pipeline and Storage Investments

Duke Energy, through its Gas Utilities and Infrastructure segment, is a 47 percent equity member of ACP, which plans to build and own the proposed ACP pipeline, an approximately 600-mile interstate natural gas pipeline, regulated by FERC. The ACP pipeline is intended to transport diverse natural gas supplies into southeastern markets. Duke Energy Carolinas, Duke Energy Progress and Piedmont, among others, will be customers of the ACP pipeline. ACP expects to achieve a late 2020 in-service date for key segments of the project, while it expects a remainder to extend into 2021. Abnormal weather, work delays (including delays due to judicial or regulatory action) and other conditions may result in cost or schedule modifications in the future. ACP and Duke Energy will continue to consider their options with respect to the foregoing in light of their existing contractual and legal obligations.

Gas Utilities and Infrastructure also has a 7.5 percent equity ownership interest in Sabal Trail. Sabal Trail is a joint venture that owns the Sabal Trail pipeline to transport natural gas to Florida, regulated by FERC. The Sabal Trail phase one mainline was placed into service in July 2017 and traverses Alabama, Georgia and Florida. The remaining lateral line to the Duke Energy Florida's Citrus County CC was placed into service in March 2018.

Gas Utilities and Infrastructure has a 24 percent equity ownership interest in Constitution, an interstate pipeline development company formed to develop, construct, own and operate a 124-mile natural gas pipeline and related facilities, regulated by FERC. Constitution is slated to transport natural gas supplies from the Marcellus supply region in northern Pennsylvania to major northeastern markets. As a result of permitting delays and project uncertainty, Constitution is unable to approximate an in-service date.

Duke Energy, through its Gas Utilities and Infrastructure segment, has a 21.49 percent equity ownership interest in Cardinal, an intrastate pipeline located in North Carolina regulated by the NCUC, a 45 percent equity ownership in Pine Needle, an interstate liquefied natural gas storage facility located in North Carolina and a 50 percent equity ownership interest in Hardy Storage, an underground interstate natural gas storage facility located in Hardy and Hampshire counties in West Virginia. Pine Needle and Hardy Storage are regulated by FERC.

KO Transmission, a wholly owned subsidiary of Duke Energy Ohio, is an interstate pipeline company engaged in the business of transporting natural gas and is subject to the rules and regulations of FERC. KO Transmission's 90-mile pipeline supplies natural gas to Duke Energy Ohio and interconnects with the Columbia Gulf Transmission pipeline and Tennessee Gas Pipeline. An approximately 70-mile portion of KO Transmission's pipeline facilities is co-owned by Columbia Gas Transmission Corporation.

See Notes 4, 12 and 17 to the Consolidated Financial Statements, "Regulatory Matters," "Investments in Unconsolidated Affiliates" and "Variable Interest Entities," respectively, for further information on Duke Energy's pipeline investments.

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Inventory

Gas Utilities and Infrastructure must maintain adequate natural gas inventory in order to provide reliable delivery to customers. As of December 31, 2018, the inventory balance for Gas Utilities and Infrastructure was \$105 million. For more information on inventory, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

Regulation

State

The NCUC, PSCSC, PUCO, TPUC and KPSC (collectively, the state gas utility commissions) approve rates for Duke Energy's retail natural gas service within their respective states. The state gas utility commissions, to varying degrees, have authority over the construction and operation of Gas Utilities and Infrastructure's natural gas distribution facilities. CPCN or Certificates of Environmental Compatibility and Public Necessity issued by the state gas utility commissions or other government agencies, as applicable, authorize Gas Utilities and Infrastructure to construct and operate its natural gas distribution facilities and to sell natural gas to retail and wholesale customers. Prior approval from the relevant state gas utility commission is required for Gas Utilities and Infrastructure to issue securities. The underlying concept of utility ratemaking is to set rates at a level that allows the utility to collect revenues equal to its cost of providing service plus a reasonable rate of return on its invested capital, including equity.

In addition to amounts collected from customers through approved base rates, each of the state gas utility commissions allow recovery of certain costs through various cost-recovery clauses to the extent the respective commission determines in periodic hearings that such costs, including any past over- or under-recovered costs, are prudent.

Natural gas costs are eligible for recovery by Gas Utilities and Infrastructure. Due to the associated regulatory treatment and the method allowed for recovery, changes in natural gas costs from year to year have no material impact on operating results of Gas Utilities and Infrastructure, unless a commission finds a portion of such costs to have not been prudent. However, delays between the expenditure for natural gas and recovery from customers can adversely impact the timing of cash flows of Gas Utilities and Infrastructure.

The following table summarizes certain components underlying recently approved and effective base rates or rate stabilization filings in the last three years.

	Annual Increase (Decrease) (in millions)	Return on Equity	Equity Component of Capital Structure	Effective Date
Approved Rate Cases:				
Piedmont 2016 South Carolina Rate Stabilization Adjustment Filing	\$ 8	10.2%	53.0%	November 2016
Piedmont 2017 South Carolina Rate Stabilization Adjustment Filing	6	10.2%	53.0%	November 2017
Piedmont 2018 South Carolina Rate Stabilization Adjustment Filing	(14)	10.2%	53.0%	November 2018
Pending Rate Cases:				
Duke Energy Kentucky 2018 Kentucky Gas Rate Case	\$ 11	9.9%	50.755%	April 2019

Gas Utilities and Infrastructure has IMR mechanisms in North Carolina and Tennessee designed to separately track and recover certain costs associated with capital investments incurred to comply with federal pipeline safety and integrity programs, as well as additional state safety and integrity requirements in Tennessee. The following table summarizes information related to recently approved or pending IMR filings.

(in millions)	Cumulative Investment	Annual Margin Revenues	Effective Date
Piedmont 2018 IMR Filing – North Carolina	\$ 924	\$ 81	December 2018
Pending Filing:			Proposed Effective Date
Piedmont 2018 IMR Filing – Tennessee	\$ 259	\$ 26	January 2019

For more information on rate matters and other regulatory proceedings, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

Federal

Gas Utilities and Infrastructure is subject to various federal regulations, including regulations that are particular to the natural gas industry. These federal regulations include but are not limited to the following:

- Regulations of the FERC affect the certification and siting of new interstate natural gas pipeline projects, the purchase and sale of, the prices paid for, and the terms and conditions of service for the interstate transportation and storage of natural gas.
- Regulations of the PHMSA affect the design, construction, operation, maintenance, integrity, safety and security of natural gas distribution and transmission systems.

BUSINESS

- Regulations of the EPA relate to the environment including proposed air emissions regulations that would expand to include emissions of methane. For a discussion of environmental regulation, see "Environmental Matters" in this section. Refer to the "Other Matters" section of Management's Discussion and Analysis for a discussion about potential Global Climate Change legislation and other EPA regulations under development and the potential impacts such legislation and regulation could have on Duke Energy's operations.

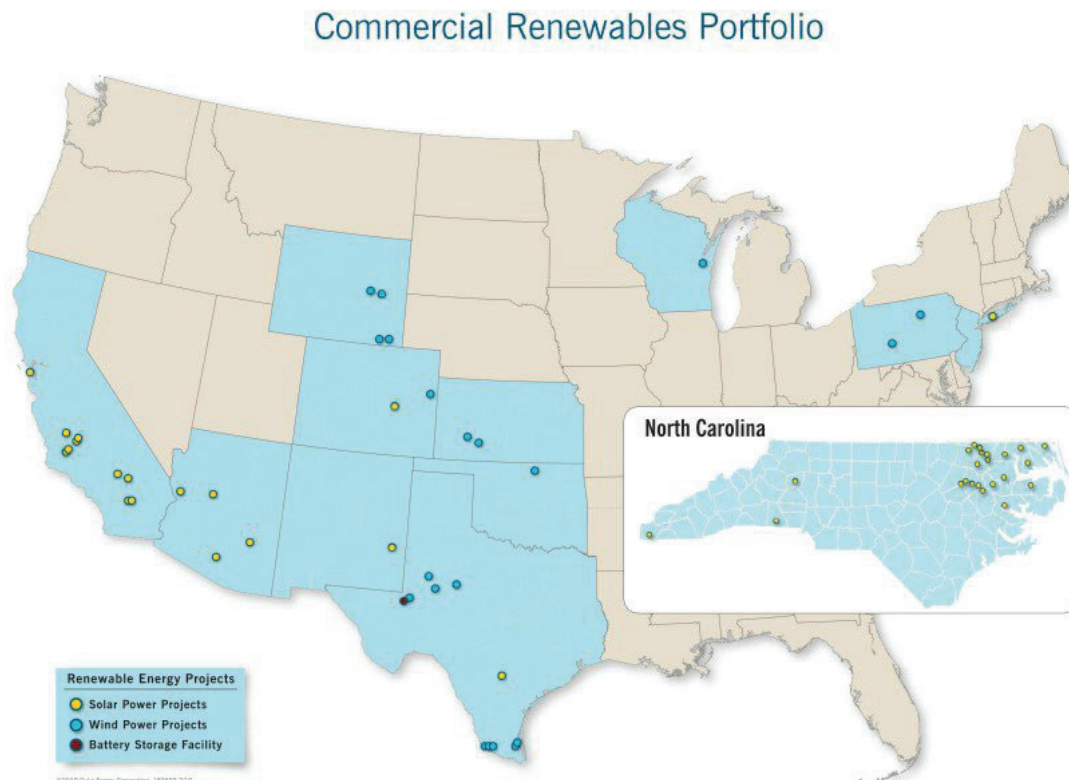
Regulations of FERC and the state gas utility commissions govern access to regulated natural gas and other data by nonregulated entities and services provided between regulated and nonregulated energy affiliates. These regulations affect the activities of nonregulated affiliates with Gas Utilities and Infrastructure.

Environmental. Gas Utilities and Infrastructure is subject to the jurisdiction of the EPA and state and local environmental agencies. For a discussion of environmental regulation, see "Environmental Matters" in this section. See "Other Matters" section of Management's Discussion and Analysis for a discussion about potential Global Climate Change legislation and other EPA regulations under development and the potential impacts such legislation and regulation could have on Duke Energy's operations.

COMMERCIAL RENEWABLES

Commercial Renewables primarily acquires, develops, builds, operates and owns wind and solar renewable generation throughout the continental U.S. The portfolio includes nonregulated renewable energy and energy storage businesses.

Commercial Renewables' renewable energy includes utility-scale wind and solar generation assets, distributed solar generation assets and a battery storage project, which total 2,991 MW across 19 states from 21 wind facilities, 100 solar facilities and one battery storage facility. Revenues are primarily generated by selling the power produced from renewable generation through long-term contracts to utilities, electric cooperatives, municipalities and commercial and industrial customers. In most instances, these customers have obligations under state-mandated renewable energy portfolio standards or similar state or local renewable energy goals. Energy and renewable energy credits generated by wind and solar projects are generally sold at contractual prices. The following map shows the service territory for Commercial Renewables as of December 31, 2018.



As eligible wind and solar projects are placed in service, Commercial Renewables recognizes either PTCs as power is generated by wind projects over 10 years or ITCs when the renewable solar or wind project achieves commercial availability. ITCs are recognized over the useful life of the asset as a reduction to depreciation expense with the benefit of the tax basis adjustment due to the ITC being recognized in income in the year of commercial availability. The ITC is being phased down from the current 30 percent rate to a permanent 10 percent rate if construction begins in 2019 through 2022. The PTC is being phased out and wind turbines will earn 10 years of PTCs at phased-out rates if construction begins in 2017 through 2019.

BUSINESS

As part of its growth strategy, Commercial Renewables has expanded its investment portfolio through the addition of distributed solar companies and projects, energy storage systems and energy management solutions specifically tailored to commercial businesses. These investments include REC Solar Corp., a California-based provider of solar installations for retail, manufacturing, agriculture, technology, government and nonprofit customers across the U.S. and Phoenix Energy Technologies Inc., a California-based provider of enterprise energy management and information software to commercial businesses.

Commercial Renewables has entered into agreements for certain of its solar generating assets that are held by LLCs whose members include a noncontrolling tax equity investor. The allocation of earnings, tax attributes and cash distributions to the tax equity investor are based on certain of the liquidation provisions pursuant to the LLC agreements. The allocations to the tax equity investors can result in variability in earnings to Duke Energy. As part of its growth strategy, Commercial Renewables expects to enter into these arrangements for future wind and solar generating assets.

For additional information on Commercial Renewables' generation facilities, see Item 2, "Properties."

Market Environment and Competition

Commercial Renewables primarily competes for wholesale contracts for the generation and sale of electricity from wind and solar generation assets it either develops or acquires and owns. The market price of commodities and services, along with the quality and reliability of services provided, drive competition in the wholesale energy business. The number and type of competitors may vary based on location, generation type and project size. Commercial Renewables' main competitors include other nonregulated generators and wholesale power providers.

Sources of Electricity

Commercial Renewables relies on wind, solar and battery resources for its generation of electric energy.

Regulation

Commercial Renewables is subject to regulation at the federal level, primarily from the FERC. Regulations of the FERC govern access to regulated market information by nonregulated entities and services provided between regulated and nonregulated utilities.

OTHER

The remainder of Duke Energy's operations is presented as Other. While it is not a business segment, Other primarily includes interest expense on holding company debt, unallocated corporate costs including costs to achieve strategic acquisitions, amounts related to certain companywide initiatives and contributions made to the Duke Energy Foundation. Other also includes Bison and an investment in NMC.

The Duke Energy Foundation is a nonprofit organization funded by Duke Energy shareholders that makes charitable contributions to selected nonprofits and government subdivisions.

Bison, a wholly owned subsidiary of Duke Energy, is a captive insurance company with the principal activity of providing Duke Energy subsidiaries with indemnification for financial losses primarily related to property, workers' compensation and general liability.

Duke Energy owns a 17.5 percent equity interest in NMC. The joint venture company has production facilities in Jubail, Saudi Arabia where it manufactures certain petrochemicals and plastics. The company annually produces approximately 1 million metric tons each of MTBE and methanol and has the capacity to produce 50,000 metric tons of polyacetal. The main feedstocks to produce these products are natural gas and butane. Duke Energy records the investment activity of NMC using the equity method of accounting and retains 25 percent of NMC's board of directors representation and voting rights.

Employees

On December 31, 2018, Duke Energy had a total of 30,083 employees on its payroll. The total includes 5,446 employees who are represented by labor unions under various collective bargaining agreements that generally cover wages, benefits, working practices, and other terms and conditions of employment.

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Executive Officers of the Registrants

The following table sets forth the individuals who currently serve as executive officers. Executive officers serve until their successors are duly elected or appointed.

Name	Age ^(a)	Current and Recent Positions Held
Lynn J. Good	59	Chairman, President and Chief Executive Officer. Ms. Good was elected as Chairman of the Board, effective January 1, 2016, and assumed her position as President and Chief Executive Officer in July 2013. Prior to that, she served as Executive Vice President and Chief Financial Officer since 2009.
Steven K. Young	60	Executive Vice President and Chief Financial Officer. Mr. Young assumed his current position in August 2013. Prior to that, he served as Vice President, Chief Accounting Officer and Controller, assuming the role of Chief Accounting Officer in July 2012 and the role of Controller in December 2006.
Douglas F Esamann	61	Executive Vice President, Energy Solutions and President, Midwest and Florida Regions. Mr. Esamann assumed his current position in September 2016 and was Executive Vice President and President, Midwest and Florida Regions since June 2015. Prior to that, he served as President, Duke Energy Indiana since November 2010.
Lloyd M. Yates	58	Executive Vice President, Customer and Delivery Operations and President, Carolinas Region. Mr. Yates assumed his current position in September 2016 and was Executive Vice President, Market Solutions and President, Carolinas Region since August 2014. He held the position of Executive Vice President, Regulated Utilities from November 2012 to August 2014, and prior to that, served as Executive Vice President, Customer Operations since July 2012, upon the merger of Duke Energy and Progress Energy.
Dhiaa M. Jamil	62	Executive Vice President and Chief Operating Officer. Mr. Jamil assumed the role of Chief Operating Officer in May 2016. Prior to his current position, he held the title Executive Vice President and President, Regulated Generation and Transmission since June 2015. Prior to that, he served as Executive Vice President and President, Regulated Generation since August 2014. He served as Executive Vice President and President of Duke Energy Nuclear from March 2013 to August 2014, and was Chief Nuclear Officer from February 2008 to February 2013.
Franklin H. Yoho	59	Executive Vice President and President, Natural Gas Business. Mr. Yoho assumed his current position in October 2016 upon the acquisition of Piedmont by Duke Energy. Prior to this appointment, he served as Senior Vice President and Chief Commercial Officer of Piedmont since August 2011.
Julia S. Janson	54	Executive Vice President, External Affairs and Chief Legal Officer. Ms. Janson has held the position of Executive Vice President, External Affairs and Chief Legal Officer since November 2018. She originally assumed the position of Executive Vice President, Chief Legal Officer and Corporate Secretary in December 2012, and then assumed the responsibilities for External Affairs in February 2016.
Melissa H. Anderson	54	Executive Vice President, Administration and Chief Human Resources Officer. Ms. Anderson assumed her position in May 2016 and had been Executive Vice President and Chief Human Resources Officer since January 2015. Prior to joining Duke Energy, she served as Senior Vice President of Human Resources at Domtar Inc. since 2010.
Dwight L. Jacobs	53	Senior Vice President, Chief Accounting Officer, Tax and Controller. Mr. Jacobs has served as Senior Vice President, Chief Accounting Officer, Tax and Controller since January 1, 2019. Prior to that, he served as Senior Vice President, Chief Accounting Officer and Controller since June 1, 2018. Prior to that, he served as Senior Vice President, Financial Planning & Analysis since February 2016 and as Chief Risk Officer since July 2014. Prior to his role as Chief Risk Officer, Mr. Jacobs served as Vice President, Rates & Regulatory Strategy since May 2010.

(a) The ages of the officers provided are as of December 31, 2018.

There are no family relationships between any of the executive officers, nor any arrangement or understanding between any executive officer and any other person involved in officer selection.

Environmental Matters

The Duke Energy Registrants are subject to federal, state and local laws and regulations with regard to air and water quality, hazardous and solid waste disposal and other environmental matters. Environmental laws and regulations affecting the Duke Energy Registrants include, but are not limited to:

- The CAA, as well as state laws and regulations impacting air emissions, including State Implementation Plans related to existing and new national ambient air quality standards for ozone and particulate matter. Owners and/or operators of air emission sources are responsible for obtaining permits and for annual compliance and reporting.
- The CWA, which requires permits for facilities that discharge wastewaters into navigable waters.
- The Comprehensive Environmental Response, Compensation and Liability Act, which can require any individual or entity that currently owns or in the past owned or operated a disposal site, as well as transporters or generators of hazardous substances sent to a disposal site, to share in remediation costs.
- The National Environmental Policy Act, which requires federal agencies to consider potential environmental impacts in their permitting and licensing decisions, including siting approvals.
- Coal Ash Act, as amended, which establishes requirements regarding the use and closure of existing ash basins, the disposal of ash at active coal plants and the handling of surface water and groundwater impacts from ash basins in North Carolina.

BUSINESS

- The Solid Waste Disposal Act, as amended by the RCRA, which creates a framework for the proper management of hazardous and nonhazardous solid waste; classifies CCR as nonhazardous waste; and establishes standards for landfill and surface impoundment placement, design, operation and closure, groundwater monitoring, corrective action, and post-closure care.
- The TSCA, which gives EPA the authority to require reporting, recordkeeping and testing requirements, and to place restrictions relating to chemical substances and/or mixtures, including polychlorinated biphenyls.
- The proposed ACE rule, which will require states to develop CO₂ reduction plans based on efficiency (heat rate) improvements at coal-fired power plants.

For more information on environmental matters, see Notes 5 and 9 to the Consolidated Financial Statements, "Commitments and Contingencies – Environmental" and "Asset Retirement Obligations," respectively, and the "Other Matters" section of Management's Discussion and Analysis. Except as otherwise described in these sections, costs to comply with current federal, state and local provisions regulating the discharge of materials into the environment or other potential costs related to protecting the environment are incorporated into the routine cost structure of our various business segments and are not expected to have a material adverse effect on the competitive position, consolidated results of operations, cash flows or financial position of the Duke Energy Registrants.

The "Other Matters" section of Management's Discussion and Analysis includes an estimate of future capital expenditures required to comply with environmental regulations and a discussion of Global Climate Change including the potential impact of current and future legislation related to GHG emissions on the Duke Energy Registrants' operations. Recently passed and potential future environmental statutes and regulations could have a significant impact on the Duke Energy Registrants' results of operations, cash flows or financial position. However, if and when such statutes and regulations become effective, the Duke Energy Registrants will seek appropriate regulatory recovery of costs to comply within its regulated operations.

DUKE ENERGY CAROLINAS

Duke Energy Carolinas is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Carolinas' service area covers approximately 24,000 square miles and supplies electric service to 2.6 million residential, commercial and industrial customers. For information about Duke Energy Carolinas' generating facilities, see Item 2, "Properties." Duke Energy Carolinas is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Substantially all of Duke Energy Carolinas' operations are regulated and qualify for regulatory accounting. Duke Energy Carolinas operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

PROGRESS ENERGY

Progress Energy is a public utility holding company primarily engaged in the regulated electric utility business and is subject to regulation by the FERC. Progress Energy conducts operations through its wholly owned subsidiaries, Duke Energy Progress and Duke Energy Florida. When discussing Progress Energy's financial information, it necessarily includes the results of Duke Energy Progress and Duke Energy Florida.

Substantially all of Progress Energy's operations are regulated and qualify for regulatory accounting. Progress Energy operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY PROGRESS

Duke Energy Progress is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Progress' service area covers approximately 32,000 square miles and supplies electric service to approximately 1.6 million residential, commercial and industrial customers. For information about Duke Energy Progress' generating facilities, see Item 2, "Properties." Duke Energy Progress is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Substantially all of Duke Energy Progress' operations are regulated and qualify for regulatory accounting. Duke Energy Progress operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY FLORIDA

Duke Energy Florida is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Florida. Duke Energy Florida's service area covers approximately 13,000 square miles and supplies electric service to approximately 1.8 million residential, commercial and industrial customers. For information about Duke Energy Florida's generating facilities, see Item 2, "Properties." Duke Energy Florida is subject to the regulatory provisions of the FPSC, NRC and FERC.

Substantially all of Duke Energy Florida's operations are regulated and qualify for regulatory accounting. Duke Energy Florida operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

BUSINESS

DUKE ENERGY OHIO

Duke Energy Ohio is a regulated public utility primarily engaged in the transmission and distribution of electricity in portions of Ohio and Kentucky, in the generation and sale of electricity in portions of Kentucky and the transportation and sale of natural gas in portions of Ohio and Kentucky. Duke Energy Ohio also conducts competitive auctions for retail electricity supply in Ohio whereby recovery of the energy price is from retail customers. Operations in Kentucky are conducted through its wholly owned subsidiary, Duke Energy Kentucky. References herein to Duke Energy Ohio include Duke Energy Ohio and its subsidiaries, unless otherwise noted. Duke Energy Ohio is subject to the regulatory provisions of the PUCO, KPSC, PHMSA and FERC.

Duke Energy Ohio's service area covers approximately 3,000 square miles and supplies electric service to approximately 860,000 residential, commercial and industrial customers and provides transmission and distribution services for natural gas to approximately 538,000 customers. For information about Duke Energy Ohio's generating facilities, see Item 2, "Properties."

KO Transmission, a wholly owned subsidiary of Duke Energy Ohio, is an interstate pipeline company engaged in the business of transporting natural gas and is subject to the rules and regulations of FERC. KO Transmission's 90-mile pipeline supplies natural gas to Duke Energy Ohio and interconnects with the Columbia Gulf Transmission pipeline and Tennessee Gas Pipeline. An approximately 70-mile portion of KO Transmission's pipeline facilities is co-owned by Columbia Gas Transmission Corporation.

Substantially all of Duke Energy Ohio's operations are regulated and qualify for regulatory accounting. Duke Energy Ohio has two reportable segments, Electric Utilities and Infrastructure and Gas Utilities and Infrastructure. For additional information on these business segments, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY INDIANA

Duke Energy Indiana is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Indiana. Duke Energy Indiana's service area covers 23,000 square miles and supplies electric service to 840,000 residential, commercial and industrial customers. For information about Duke Energy Indiana's generating facilities, see Item 2, "Properties." Duke Energy Indiana is subject to the regulatory provisions of the IURC and FERC.

Substantially all of Duke Energy Indiana's operations are regulated and qualify for regulatory accounting. Duke Energy Indiana operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

PIEDMONT

Piedmont is a regulated public utility primarily engaged in the distribution of natural gas to over 1 million residential, commercial, industrial and power generation customers in portions of North Carolina, South Carolina and Tennessee, including customers served by municipalities who are wholesale customers. For information about Piedmont's natural gas distribution facilities, see Item 2, "Properties." Piedmont is subject to the regulatory provisions of the NCUC, PSCSC, TPUC, PHMSA and FERC.

Substantially all of Piedmont's operations are regulated and qualify for regulatory accounting. Piedmont operates one reportable business segment, Gas Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

ITEM 1A. RISK FACTORS

In addition to other disclosures within this Form 10-K, including "Management's Discussion and Analysis of Financial Condition and Results of Operations – Matters Impacting Future Results" for each registrant in Item 7, and other documents filed with the SEC from time to time, the following factors should be considered in evaluating Duke Energy and its subsidiaries. Such factors could affect actual results of operations and cause results to differ substantially from those currently expected or sought. Unless otherwise indicated, risk factors discussed below generally relate to risks associated with all of the Duke Energy Registrants. Risks identified at the Subsidiary Registrant level are generally applicable to Duke Energy.

Business Strategy Risks

Duke Energy's future results could be adversely affected if it is unable to implement its business strategy.

Duke Energy's results of operations depend, in significant part, on the extent to which it can implement its business strategy successfully. Duke Energy's strategy, including transforming the customer experience, modernizing the energy grid, generating cleaner energy, expansion of natural gas infrastructure, modernizing the regulatory construct, digital transformation and engaging employees and stakeholders to accomplish these priorities, is subject to business, economic and competitive uncertainties and contingencies, many of which are beyond its control. As a consequence, Duke Energy may not be able to fully implement or realize the anticipated results of its strategy.

RISK FACTORS

Regulatory, Legislative and Legal Risks

The Duke Energy Registrants' regulated utility revenues, earnings and results are dependent on state legislation and regulation that affect electric generation, electric and natural gas transmission, distribution and related activities, which may limit their ability to recover costs.

The Duke Energy Registrants' regulated electric and natural gas utility businesses are regulated on a cost-of-service/rate-of-return basis subject to statutes and regulatory commission rules and procedures of North Carolina, South Carolina, Florida, Ohio, Tennessee, Indiana and Kentucky. If the Duke Energy Registrants' regulated utility earnings exceed the returns established by the state utility commissions, retail electric and natural gas rates may be subject to review and possible reduction by the commissions, which may decrease the Duke Energy Registrants' earnings. Additionally, if regulatory bodies do not allow recovery of costs incurred in providing service, or do not do so on a timely basis, the Duke Energy Registrants' earnings could be negatively impacted.

If legislative and regulatory structures were to evolve in such a way that the Duke Energy Registrants' exclusive rights to serve their regulated customers were eroded, their earnings could be negatively impacted. Federal and state regulations, laws and other efforts designed to promote and expand the use of energy efficiency measures and distributed generation technologies, such as private solar and battery storage, in Duke Energy service territories could result in customers leaving the electric distribution system and an increase in customer net energy metering, which allows customers with private solar to receive bill credits for surplus power at the full retail amount. Over time, customer adoption of these technologies and increased energy efficiency could result in excess generation resources as well as stranded costs if Duke Energy is not able to fully recover the costs and investment in generation.

State regulators have approved various mechanisms to stabilize natural gas utility margins, including margin decoupling in North Carolina and rate stabilization in South Carolina. State regulators have approved other margin stabilizing mechanisms that, for example, allow for recovery of margin losses associated with negotiated transactions designed to retain large volume customers that could use alternative fuels or that may otherwise directly access natural gas supply through their own connection to an interstate pipeline. If regulators decided to discontinue the Duke Energy Registrants' use of tariff mechanisms, it would negatively impact results of operations, financial condition and cash flows. In addition, regulatory authorities also review whether natural gas costs are prudent and can disallow the recovery of a portion of natural gas costs that the Duke Energy Registrants seek to recover from customers, which would adversely impact earnings.

The rates that the Duke Energy Registrants' regulated utility businesses are allowed to charge are established by state utility commissions in rate case proceedings, which may limit their ability to recover costs and earn an appropriate return on investment.

The rates that the Duke Energy Registrants' regulated utility business are allowed to charge significantly influences the results of operations, financial position and cash flows of the Duke Energy Registrants. The regulation of the rates that the regulated utility businesses charge customers is determined, in large part, by state utility commissions in rate case proceedings. Negative decisions made by these regulators, or by any court on appeal of a rate case proceeding, could have a material adverse effect on the Duke Energy Registrants' results of operations, financial position or cash flows and affect the ability of the Duke Energy Registrants to recover costs and an appropriate return on the significant infrastructure investments being made.

Deregulation or restructuring in the electric industry may result in increased competition and unrecovered costs that could adversely affect the Duke Energy Registrants' financial position, results of operations or cash flows and their utility businesses.

Increased competition resulting from deregulation or restructuring legislation could have a significant adverse impact on the Duke Energy Registrants' results of operations, financial position or cash flows. If the retail jurisdictions served by the Duke Energy Registrants become subject to deregulation, the impairment of assets, loss of retail customers, lower profit margins or increased costs of capital, and recovery of stranded costs could have a significant adverse financial impact on the Duke Energy Registrants. Stranded costs primarily include the generation assets of the Duke Energy Registrants whose value in a competitive marketplace may be less than their current book value, as well as above-market purchased power commitments from QFs from whom the Duke Energy Registrants are legally obligated to purchase energy at an avoided cost rate under PURPA. The Duke Energy Registrants cannot predict the extent and timing of entry by additional competitors into the electric markets. The Duke Energy Registrants cannot predict if or when they will be subject to changes in legislation or regulation, nor can they predict the impact of these changes on their results of operations, financial position or cash flows.

The Duke Energy Registrants' businesses are subject to extensive federal regulation and a wide variety of laws and governmental policies, including taxes, that may change over time in ways that affect operations and costs.

The Duke Energy Registrants are subject to regulations under a wide variety of U.S. federal and state regulations and policies, including by FERC, NRC, EPA and various other federal agencies as well as the North American Electric Reliability Corporation. Regulation affects almost every aspect of the Duke Energy Registrants' businesses, including, among other things, their ability to: take fundamental business management actions; determine the terms and rates of transmission and distribution services; make acquisitions; issue equity or debt securities; engage in transactions with other subsidiaries and affiliates; and pay dividends upstream to the Duke Energy Registrants. Changes to federal regulations are continuous and ongoing. There can be no assurance that laws, regulations and policies will not be changed in ways that result in material modifications of business models and objectives or affect returns on investment by restricting activities and products, subjecting them to escalating costs, causing delays, or prohibiting them outright.

RISK FACTORS

The Duke Energy Registrants are subject to numerous environmental laws and regulations requiring significant capital expenditures that can increase the cost of operations, and which may impact or limit business plans, or cause exposure to environmental liabilities.

The Duke Energy Registrants are subject to numerous environmental laws and regulations affecting many aspects of their present and future operations, including CCRs, air emissions, water quality, wastewater discharges, solid waste and hazardous waste. These laws and regulations can result in increased capital, operating and other costs. These laws and regulations generally require the Duke Energy Registrants to obtain and comply with a wide variety of environmental licenses, permits, inspections and other approvals. Compliance with environmental laws and regulations can require significant expenditures, including expenditures for cleanup costs and damages arising from contaminated properties. Failure to comply with environmental regulations may result in the imposition of fines, penalties and injunctive measures affecting operating assets. The steps the Duke Energy Registrants could be required to take to ensure their facilities are in compliance could be prohibitively expensive. As a result, the Duke Energy Registrants may be required to shut down or alter the operation of their facilities, which may cause the Duke Energy Registrants to incur losses. Further, the Duke Energy Registrants may not be successful in recovering capital and operating costs incurred to comply with new environmental regulations through existing regulatory rate structures and their contracts with customers. Also, the Duke Energy Registrants may not be able to obtain or maintain from time to time all required environmental regulatory approvals for their operating assets or development projects. Delays in obtaining any required environmental regulatory approvals, failure to obtain and comply with them or changes in environmental laws or regulations to more stringent compliance levels could result in additional costs of operation for existing facilities or development of new facilities being prevented, delayed or subject to additional costs. Although it is not expected that the costs to comply with current environmental regulations will have a material adverse effect on the Duke Energy Registrants' results of operations, financial position and cash flows due to regulatory cost recovery, the Duke Energy Registrants are at risk that the costs of complying with environmental regulations in the future will have such an effect.

The EPA has enacted or proposed federal regulations governing the management of cooling water intake structures, wastewater and CO₂ emissions. These regulations may require the Duke Energy Registrants to make additional capital expenditures and increase operating and maintenance costs.

Duke Energy Carolinas and Duke Energy Progress are subject to the terms of probation set out in judgments of the United States District Court for the Eastern District of North Carolina on May 14, 2015. The judgments are based on events and activities that took place prior to 2015. The terms of probation require the companies to comply with certain environmental regulatory obligations related to coal ash and subject the two companies to oversight by a Court Appointed Monitor. If Duke Energy Carolinas or Duke Energy Progress failed to comply with certain coal ash-related environmental laws and regulations or otherwise violated the terms of probation, it could result in the imposition of additional penalties, including the revocation of probation and re-prosecution of the underlying violations. Although it is not expected that the companies will violate the terms of probation or that additional material penalties would occur, a significant violation of probation could have a material adverse effect on the Duke Energy Registrants' reputation, results of operations, financial position and cash flows.

The Duke Energy Registrants' operations, capital expenditures and financial results may be affected by regulatory changes related to the impacts of global climate change.

There is continued concern, both nationally and internationally, about climate change. The EPA and state regulators may adopt and implement regulations to restrict emissions of GHGs to address global climate change. Increased regulation of GHG emissions could impose significant additional costs on the Duke Energy Registrants' operations, their suppliers and customers. Regulatory changes could also result in generation facilities to be retired early and result in stranded costs if Duke Energy is not able to fully recover the costs and investment in generation.

Operational Risks

The Duke Energy Registrants' results of operations may be negatively affected by overall market, economic and other conditions that are beyond their control.

Sustained downturns or sluggishness in the economy generally affect the markets in which the Duke Energy Registrants operate and negatively influence operations. Declines in demand for electricity or natural gas as a result of economic downturns in the Duke Energy Registrants' regulated service territories will reduce overall sales and lessen cash flows, especially as industrial customers reduce production and, therefore, consumption of electricity and the use of natural gas. Although the Duke Energy Registrants' regulated electric and natural gas businesses are subject to regulated allowable rates of return and recovery of certain costs, such as fuel and purchased natural gas costs, under periodic adjustment clauses, overall declines in electricity or natural gas sold as a result of economic downturn or recession could reduce revenues and cash flows, thereby diminishing results of operations. Additionally, prolonged economic downturns that negatively impact the Duke Energy Registrants' results of operations and cash flows could result in future material impairment charges to write-down the carrying value of certain assets, including goodwill, to their respective fair values.

The Duke Energy Registrants also sell electricity into the spot market or other competitive power markets on a contractual basis. With respect to such transactions, the Duke Energy Registrants are not guaranteed any rate of return on their capital investments through mandated rates, and revenues and results of operations are likely to depend, in large part, upon prevailing market prices. These market prices may fluctuate substantially over relatively short periods of time and could reduce the Duke Energy Registrants' revenues and margins, thereby diminishing results of operations.

Factors that could impact sales volumes, generation of electricity and market prices at which the Duke Energy Registrants are able to sell electricity and natural gas are as follows:

- weather conditions, including abnormally mild winter or summer weather that cause lower energy or natural gas usage for heating or cooling purposes, as applicable, and periods of low rainfall that decrease the ability to operate facilities in an economical manner;
- supply of and demand for energy commodities;
- transmission or transportation constraints or inefficiencies that impact nonregulated energy operations;

RISK FACTORS

- availability of competitively priced alternative energy sources, which are preferred by some customers over electricity produced from coal, nuclear or natural gas plants, and customer usage of energy-efficient equipment that reduces energy demand;
- natural gas, crude oil and refined products production levels and prices;
- ability to procure satisfactory levels of inventory, such as coal, natural gas and uranium; and
- capacity and transmission service into, or out of, the Duke Energy Registrants' markets.

Natural disasters or operational accidents may adversely affect the Duke Energy Registrants' operating results.

Natural disasters or other operational accidents within the company or industry (such as forest fires, earthquakes, hurricanes or natural gas transmission pipeline explosions) could have direct or indirect impacts to the Duke Energy Registrants or to key contractors and suppliers. Further, the generation of electricity and the transportation and storage of natural gas involve inherent operating risks that may result in accidents involving serious injury or loss of life, environmental damage or property damage. Such events could impact the Duke Energy Registrants through changes to policies, laws and regulations whose compliance costs have a significant impact on the Duke Energy Registrants' results of operations, financial position and cash flows. In addition, if a serious operational accident were to occur, it could have a material adverse effect on the results of operations, financial position, cash flows and reputation of the Duke Energy Registrants.

The reputation and financial condition of the Duke Energy Registrants could be negatively impacted due to their obligations to comply with federal and state regulations, laws, and other legal requirements that govern the operations, assessments, storage, closure, remediation, disposal and monitoring relating to CCR, the high costs and new rate impacts associated with implementing these new CCR-related requirements and the strategies and methods necessary to implement these requirements in compliance with these legal obligations.

As a result of electricity produced for decades at coal-fired power plants, the Duke Energy Registrants manage large amounts of CCR that are primarily stored in dry storage within landfills or combined with water in other surface impoundments, all in compliance with applicable regulatory requirements. However, the potential exists for another CCR-related incident, such as the one that occurred during the 2014 Dan River Steam Station ash basin release, that could raise environmental or public health concerns. Such a CCR-related incident could have a material adverse impact on the reputation and results of operations, financial position and cash flows of the Duke Energy Registrants.

During 2015, EPA regulations were enacted related to the management of CCR from power plants. These regulations classify CCR as nonhazardous waste under the RCRA and apply to electric generating sites with new and existing landfills, new and existing surface impoundments, structural fills and CCR piles, and establishes requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring, protection and remedial procedures and other operational and reporting procedures for the disposal and management of CCR. In addition to the federal regulations, CCR landfills and surface impoundments will continue to be independently regulated by existing state laws, regulations and permits, as well as additional legal requirements that may be imposed in the future. These federal and state laws, regulations and other legal requirements may require or result in additional expenditures, increased operating and maintenance costs and/or result in closure of certain power generating facilities, which could affect the results of operations, financial position and cash flows of the Duke Energy Registrants. The Duke Energy Registrants will continue to seek full cost recovery for expenditures through the normal ratemaking process with state and federal utility commissions, who permit recovery in rates of necessary and prudently incurred costs associated with the Duke Energy Registrants' regulated operations, and through other wholesale contracts with terms that contemplate recovery of such costs, although there is no guarantee of full cost recovery. In addition, the timing for recovery of such costs could have a material adverse impact on Duke Energy's cash flows.

The Duke Energy Registrants have recognized significant asset retirement obligations related to these CCR-related requirements. Closure activities began in 2015 at the four sites specified as high priority by the Coal Ash Act and at the W.S. Lee Steam Station site in South Carolina in connection with other legal requirements. Excavation at these sites involves movement of large amounts of CCR materials to off-site locations for use as structural fill, to appropriate engineered off-site or on-site lined landfills or conversion of the ash for beneficial use. At other sites, preliminary planning and closure methods have been studied and factored into the estimated retirement and management costs. The Coal Ash Act requires CCR surface impoundments in North Carolina to be closed, with the closure method and timing based on a risk ranking classification determined by legislation or state regulators. Additionally, the RCRA required closure timing depends upon meeting or continuing to meet certain criteria. As the closure and CCR management work progresses and final closure plans and corrective action measures are developed and approved at each site, the scope and complexity of work and the amount of CCR material could be greater than estimates and could, therefore, materially increase compliance expenditures and rate impacts.

The Duke Energy Registrants' financial position, results of operations and cash flows may be negatively affected by a lack of growth or slower growth in the number of customers, or decline in customer demand or number of customers.

Growth in customer accounts and growth of customer usage each directly influence demand for electricity and natural gas and the need for additional power generation and delivery facilities. Customer growth and customer usage are affected by a number of factors outside the control of the Duke Energy Registrants, such as mandated energy efficiency measures, demand-side management goals, distributed generation resources and economic and demographic conditions, such as population changes, job and income growth, housing starts, new business formation and the overall level of economic activity.

Certain regulatory and legislative bodies have introduced or are considering requirements and/or incentives to reduce energy consumption by certain dates. Additionally, technological advances driven by federal laws mandating new levels of energy efficiency in end-use electric devices or other improvements in or applications of technology could lead to declines in per capita energy consumption.

Advances in distributed generation technologies that produce power, including fuel cells, microturbines, wind turbines and solar cells, may reduce the cost of alternative methods of producing power to a level competitive with central power station electric production utilized by the Duke Energy Registrants.

RISK FACTORS

Some or all of these factors could result in a lack of growth or decline in customer demand for electricity or number of customers and may cause the failure of the Duke Energy Registrants to fully realize anticipated benefits from significant capital investments and expenditures, which could have a material adverse effect on their results of operations, financial position and cash flows.

Furthermore, the Duke Energy Registrants currently have energy efficiency riders in place to recover the cost of energy efficiency programs in North Carolina, South Carolina, Florida, Indiana, Ohio and Kentucky. Should the Duke Energy Registrants be required to invest in conservation measures that result in reduced sales from effective conservation, regulatory lag in adjusting rates for the impact of these measures could have a negative financial impact.

The Duke Energy Registrants' operating results may fluctuate on a seasonal and quarterly basis and can be negatively affected by changes in weather conditions and severe weather, including extreme weather conditions associated with climate change.

Electric power generation and natural gas distribution are generally seasonal businesses. In most parts of the U.S., the demand for power peaks during the warmer summer months, with market prices also typically peaking at that time. In other areas, demand for power peaks during the winter. Demand for natural gas peaks during the winter months. Further, extreme weather conditions such as hurricanes, droughts, heat waves, winter storms and severe weather associated with climate change could cause these seasonal fluctuations to be more pronounced. As a result, the overall operating results of the Duke Energy Registrants' businesses may fluctuate substantially on a seasonal and quarterly basis and thus make period-to-period comparison less relevant.

Sustained severe drought conditions could impact generation by hydroelectric plants, as well as fossil and nuclear plant operations, as these facilities use water for cooling purposes and for the operation of environmental compliance equipment. Furthermore, destruction caused by severe weather events, such as hurricanes, tornadoes, severe thunderstorms, snow and ice storms, can result in lost operating revenues due to outages, property damage, including downed transmission and distribution lines, and additional and unexpected expenses to mitigate storm damage. The cost of storm restoration efforts may not be fully recoverable through the regulatory process.

The Duke Energy Registrants' sales may decrease if they are unable to gain adequate, reliable and affordable access to transmission assets.

The Duke Energy Registrants depend on transmission and distribution facilities owned and operated by utilities and other energy companies to deliver electricity sold to the wholesale market. The FERC's power transmission regulations require wholesale electric transmission services to be offered on an open-access, non-discriminatory basis. If transmission is disrupted, or if transmission capacity is inadequate, the Duke Energy Registrants' ability to sell and deliver products may be hindered.

The different regional power markets have changing regulatory structures, which could affect growth and performance in these regions. In addition, the ISOs who oversee the transmission systems in regional power markets have imposed in the past, and may impose in the future, price limitations and other mechanisms to address volatility in the power markets. These types of price limitations and other mechanisms may adversely impact the profitability of the Duke Energy Registrants' wholesale power marketing business.

Duke Energy may be unable to complete necessary or desirable pipeline expansion or infrastructure development or maintenance projects, which may prevent the Duke Energy Registrants from expanding the natural gas business.

In order to serve current or new natural gas customers or expand the service to existing customers, the Duke Energy Registrants need to maintain, expand or upgrade distribution, transmission and/or storage infrastructure, including laying new pipeline and building compressor stations. Duke Energy Registrants have made significant investments in a number of pipeline development projects, which are being operated and constructed by third-party joint venture partners. The Duke Energy Registrants must rely on their third-party joint venture partners for proper construction management of the projects and are dependent upon contractors for the successful and timely completion of the projects. In addition, various factors, such as the inability to obtain required approval from local, state and/or federal regulatory and governmental bodies, public opposition to projects, adverse litigation rulings, inability to obtain adequate financing, competition for labor and materials, construction delays, cost overruns and the inability to negotiate acceptable agreements relating to rights of way, construction or other material development components, may prevent or delay the completion of projects or materially increase the cost of such projects, which could have a material adverse effect on the results of operations and financial position of Duke Energy.

The availability of adequate interstate pipeline transportation capacity and natural gas supply may decrease.

The Duke Energy Registrants purchase almost all of their natural gas supply from interstate sources that must be transported to the applicable service territories. Interstate pipeline companies transport the natural gas to the Duke Energy Registrants' systems under firm service agreements that are designed to meet the requirements of their core markets. A significant disruption to interstate pipelines capacity or reduction in natural gas supply due to events including, but not limited to, operational failures or disruptions, hurricanes, tornadoes, floods, freeze off of natural gas wells, terrorist or cyberattacks or other acts of war or legislative or regulatory actions or requirements, including remediation related to integrity inspections, could reduce the normal interstate supply of natural gas and thereby reduce earnings. Moreover, if additional natural gas infrastructure, including, but not limited to, exploration and drilling rigs and platforms, processing and gathering systems, off-shore pipelines, interstate pipelines and storage, cannot be built at a pace that meets demand, then growth opportunities could be limited and earnings negatively impacted.

Fluctuations in commodity prices or availability may adversely affect various aspects of the Duke Energy Registrants' operations as well as their financial position, results of operations and cash flows.

The Duke Energy Registrants are exposed to the effects of market fluctuations in the price of natural gas, coal, fuel oil, nuclear fuel, electricity and other energy-related commodities as a result of their ownership of energy-related assets. Fuel costs are recovered primarily through cost-recovery clauses, subject to the approval of state utility commissions.

RISK FACTORS

Additionally, the Duke Energy Registrants are exposed to risk that counterparties will not be able to fulfill their obligations. Disruption in the delivery of fuel, including disruptions as a result of, among other things, transportation delays, weather, labor relations, force majeure events or environmental regulations affecting any of these fuel suppliers, could limit the Duke Energy Registrants' ability to operate their facilities. Should counterparties fail to perform, the Duke Energy Registrants might be forced to replace the underlying commitment at prevailing market prices possibly resulting in losses in addition to the amounts, if any, already paid to the counterparties.

Certain of the Duke Energy Registrants' hedge agreements may result in the receipt of, or posting of, collateral with counterparties, depending on the daily market-based calculation of financial exposure of the derivative positions. Fluctuations in commodity prices that lead to the return of collateral received and/or the posting of collateral with counterparties could negatively impact liquidity. Downgrades in the Duke Energy Registrants' credit ratings could lead to additional collateral posting requirements. The Duke Energy Registrants continually monitor derivative positions in relation to market price activity.

Potential terrorist activities, or military or other actions, could adversely affect the Duke Energy Registrants' businesses.

The continued threat of terrorism and the impact of retaliatory military and other action by the U.S. and its allies may lead to increased political, economic and financial market instability and volatility in prices for natural gas and oil, which may have material adverse effects in ways the Duke Energy Registrants cannot predict at this time. In addition, future acts of terrorism and possible reprisals as a consequence of action by the U.S. and its allies could be directed against companies operating in the U.S. Information technology systems, transmission and distribution and generation facilities such as nuclear plants could be potential targets of terrorist activities or harmful activities by individuals or groups that could have a material adverse effect on Duke Energy Registrants' businesses. In particular, the Duke Energy Registrants may experience increased capital and operating costs to implement increased security for their information technology systems, transmission and distribution and generation facilities, including nuclear power plants under the NRC's design basis threat requirements. These increased costs could include additional physical plant security and security personnel or additional capability following a terrorist incident.

The failure of Duke Energy information technology systems, or the failure to enhance existing information technology systems and implement new technology, could adversely affect the Duke Energy Registrants' businesses.

Duke Energy's operations are dependent upon the proper functioning of its internal systems, including the information technology systems that support our underlying business processes. Any significant failure or malfunction of such information technology systems may result in disruptions of our operations. In the ordinary course of business, we rely on information technology systems, including the internet and third-party hosted services, to support a variety of business processes and activities and to store sensitive data, including (i) intellectual property, (ii) proprietary business information, (iii) personally identifiable information of our customers and employees, and (iv) data with respect to invoicing and the collection of payments, accounting, procurement, and supply chain activities. Our information technology systems are dependent upon global communications and cloud service providers, as well as their respective vendors, many of whom have at some point experienced significant system failures and outages in the past and may experience such failures and outages in the future. These providers' systems are susceptible to cybersecurity and data breaches, outages from fire, floods, power loss, telecommunications failures, break-ins and similar events. Failure to prevent or mitigate data loss from system failures or outages could materially affect the results of operations, financial position and cash flows of the Duke Energy Registrants.

In addition to maintaining our current information technology systems, Duke Energy believes the digital transformation of its business is key to driving internal efficiencies as well as providing additional capabilities to customers. Duke Energy's information technology systems are critical to cost-effective, reliable daily operations and our ability to effectively serve our customers. We expect our customers to continue to demand more sophisticated technology-driven solutions and we must enhance or replace our information technology systems in response. This involves significant development and implementation costs to keep pace with changing technologies and customer demand. If we fail to successfully implement critical technology, or if it does not provide the anticipated benefits or meet customer demands, such failure could materially adversely affect our business strategy as well as impact the results of operations, financial position and cash flows of the Duke Energy Registrants.

RISK FACTORS

Cyberattacks and data security breaches could adversely affect the Duke Energy Registrants' businesses.

Cybersecurity risks have increased in recent years as a result of the proliferation of new technologies and the increased sophistication, magnitude and frequency of cyberattacks and data security breaches. Duke Energy relies on the continued operation of sophisticated digital information technology systems and network infrastructure, which are part of an interconnected regional grid. Additionally, connectivity to the internet continues to increase through grid modernization and other operational excellence initiatives. Because of the critical nature of the infrastructure, increased connectivity to the internet and technology systems' inherent vulnerability to disability or failures due to hacking, viruses, acts of war or terrorism or other types of data security breaches, the Duke Energy Registrants face a heightened risk of cyberattack from foreign or domestic sources and have been subject, and will likely continue to be subject, to attempts to gain unauthorized access to information and/or information systems or to disrupt utility operations through computer viruses and phishing attempts either directly or indirectly through its material vendors or related third parties. In the event of a significant cybersecurity breach on either the Duke Energy Registrants or with one of our material vendors or related third parties, the Duke Energy Registrants could (i) have business operations disrupted, including the disruption of the operation of our assets and the power grid, theft of confidential company, employee, shareholder, vendor or customer information, and general business systems and process interruption or compromise, including preventing the Duke Energy Registrants from servicing customers, collecting revenues or the recording, processing and/or reporting financial information correctly, (ii) experience substantial loss of revenues, repair and restoration costs, penalties and costs for lack of compliance with relevant regulations, implementation costs for additional security measures to avert future cyberattacks and other financial loss and (iii) be subject to increased regulation, litigation and reputational damage. While Duke Energy maintains insurance relating to cybersecurity events, such insurance is subject to a number of exclusions and may be insufficient to offset any losses, costs or damage experienced. Also, the market for cybersecurity insurance is relatively new and coverage available for cybersecurity events may evolve as the industry matures.

The Duke Energy Registrants are subject to standards enacted by the North American Electric Reliability Corporation and enforced by FERC regarding protection of the physical and cyber security of critical infrastructure assets required for operating North America's bulk electric system. The Duke Energy Registrants are also subject to regulations set by the Nuclear Regulatory Commission regarding the protection of digital computer and communication systems and networks required for the operation of nuclear power plants. While the Duke Energy Registrants believe they are in compliance with such standards and regulations, the Duke Energy Registrants have from time to time been, and may in the future be, found to be in violation of such standards and regulations. In addition, compliance with or changes in the applicable standards and regulations may subject the Duke Energy Registrants to higher operating costs and/or increased capital expenditures as well as substantial fines for non-compliance.

Failure to attract and retain an appropriately qualified workforce could unfavorably impact the Duke Energy Registrants' results of operations.

Certain events, such as an aging workforce, mismatch of skill set or complement to future needs, or unavailability of contract resources may lead to operating challenges and increased costs. The challenges include lack of resources, loss of knowledge base and the lengthy time required for skill development. In this case, costs, including costs for contractors to replace employees, productivity costs and safety costs, may increase. Failure to hire and adequately train replacement employees, including the transfer of significant internal historical knowledge and expertise to new employees, or future availability and cost of contract labor may adversely affect the ability to manage and operate the business, especially considering the workforce needs associated with nuclear generation facilities and new skills required to operate a modernized, technology-enabled power grid. If the Duke Energy Registrants are unable to successfully attract and retain an appropriately qualified workforce, their results of operations, financial position and cash flows could be negatively affected.

The costs of decommissioning Duke Energy Florida's Crystal River Unit 3 could prove to be more extensive than is currently identified.

Costs to decommission the plant could exceed estimates and, if not recoverable through the regulatory process, could adversely affect Duke Energy's, Progress Energy's and Duke Energy Florida's results of operations, financial position and cash flows.

Duke Energy Ohio's and Duke Energy Indiana's membership in an RTO presents risks that could have a material adverse effect on their results of operations, financial position and cash flows.

The rules governing the various regional power markets may change, which could affect Duke Energy Ohio's and Duke Energy Indiana's costs and/or revenues. To the degree Duke Energy Ohio and Duke Energy Indiana incur significant additional fees and increased costs to participate in an RTO, their results of operations may be impacted. Duke Energy Ohio and Duke Energy Indiana may be allocated a portion of the cost of transmission facilities built by others due to changes in RTO transmission rate design. Duke Energy Ohio and Duke Energy Indiana may be required to expand their transmission system according to decisions made by an RTO rather than their own internal planning process. In addition, RTOs have been developing rules associated with the allocation and methodology of assigning costs associated with improved transmission reliability, reduced transmission congestion and firm transmission rights that may have a financial impact on the results of operations, financial position and cash flows of Duke Energy Ohio and Duke Energy Indiana.

As members of an RTO, Duke Energy Ohio and Duke Energy Indiana are subject to certain additional risks, including those associated with the allocation among RTO members, of losses caused by unreimbursed defaults of other participants in the RTO markets and those associated with complaint cases filed against an RTO that may seek refunds of revenues previously earned by RTO members.

RISK FACTORS

The Duke Energy Registrants may not recover costs incurred to begin construction on projects that are canceled.

Duke Energy's long-term strategy requires the construction of new projects, either wholly owned or partially owned, which involve a number of risks, including construction delays, nonperformance by equipment and other third-party suppliers, and increases in equipment and labor costs. To limit the risks of these construction projects, the Duke Energy Registrants enter into equipment purchase orders and construction contracts and incur engineering and design service costs in advance of receiving necessary regulatory approvals and/or siting or environmental permits. If any of these projects are canceled for any reason, including failure to receive necessary regulatory approvals and/or siting or environmental permits, significant cancellation penalties under the equipment purchase orders and construction contracts could occur. In addition, if any construction work or investments have been recorded as an asset, an impairment may need to be recorded in the event the project is canceled.

Nuclear Generation Risks

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida may incur substantial costs and liabilities due to their ownership and operation of nuclear generating facilities.

Ownership interests in and operation of nuclear stations by Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida subject them to various risks. These risks include, among other things: the potential harmful effects on the environment and human health resulting from the current or past operation of nuclear facilities and the storage, handling and disposal of radioactive materials; limitations on the amounts and types of insurance commercially available to cover losses that might arise in connection with nuclear operations; and uncertainties with respect to the technological and financial aspects of decommissioning nuclear plants at the end of their licensed lives.

Ownership and operation of nuclear generation facilities requires compliance with licensing and safety-related requirements imposed by the NRC. In the event of non-compliance, the NRC may increase regulatory oversight, impose fines or shut down a unit depending upon its assessment of the severity of the situation. Revised security and safety requirements promulgated by the NRC, which could be prompted by, among other things, events within or outside of the control of Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, such as a serious nuclear incident at a facility owned by a third party, could necessitate substantial capital and other expenditures, as well as assessments to cover third-party losses. In addition, if a serious nuclear incident were to occur, it could have a material adverse effect on the results of operations, financial position, cash flows and reputation of the Duke Energy Registrants.

Liquidity, Capital Requirements and Common Stock Risks

The Duke Energy Registrants rely on access to short-term borrowings and longer-term debt and equity markets to finance their capital requirements and support their liquidity needs. Access to those markets can be adversely affected by a number of conditions, many of which are beyond the Duke Energy Registrants' control.

The Duke Energy Registrants' businesses are significantly financed through issuances of debt and equity. The maturity and repayment profile of debt used to finance investments often does not correlate to cash flows from their assets. Accordingly, as a source of liquidity for capital requirements not satisfied by the cash flows from their operations and to fund investments originally financed through debt instruments with disparate maturities, the Duke Energy Registrants rely on access to short-term money markets as well as longer-term capital markets. The Subsidiary Registrants also rely on access to short-term intercompany borrowings. If the Duke Energy Registrants are not able to access debt or equity at competitive rates or at all, the ability to finance their operations and implement their strategy and business plan as scheduled could be adversely affected. An inability to access debt and equity may limit the Duke Energy Registrants' ability to pursue improvements or acquisitions that they may otherwise rely on for future growth.

Market disruptions may increase the cost of borrowing or adversely affect the ability to access one or more financial markets. Such disruptions could include: economic downturns, the bankruptcy of an unrelated energy company, unfavorable capital market conditions, market prices for electricity and natural gas, actual or threatened terrorist attacks, or the overall health of the energy industry. The availability of credit under Duke Energy's Master Credit Facility depends upon the ability of the banks providing commitments under the facility to provide funds when their obligations to do so arise. Systematic risk of the banking system and the financial markets could prevent a bank from meeting its obligations under the facility agreement.

Duke Energy maintains a revolving credit facility to provide backup for its commercial paper program and letters of credit to support variable rate demand tax-exempt bonds that may be put to the Duke Energy Registrant issuer at the option of the holder. The facility includes borrowing sublimits for the Duke Energy Registrants, each of whom is a party to the credit facility, and financial covenants that limit the amount of debt that can be outstanding as a percentage of the total capital for the specific entity. Failure to maintain these covenants at a particular entity could preclude Duke Energy from issuing commercial paper or the Duke Energy Registrants from issuing letters of credit or borrowing under the Master Credit Facility.

The Duke Energy Registrants must meet credit quality standards and there is no assurance they will maintain investment grade credit ratings. If the Duke Energy Registrants are unable to maintain investment grade credit ratings, they would be required under credit agreements to provide collateral in the form of letters of credit or cash, which may materially adversely affect their liquidity.

Each of the Duke Energy Registrants' senior long-term debt issuances is currently rated investment grade by various rating agencies. The Duke Energy Registrants cannot ensure their senior long-term debt will be rated investment grade in the future.

If the rating agencies were to rate the Duke Energy Registrants below investment grade, borrowing costs would increase, perhaps significantly. In addition, the potential pool of investors and funding sources would likely decrease. Further, if the short-term debt rating were to fall, access to the commercial paper market could be significantly limited.

RISK FACTORS

A downgrade below investment grade could also require the posting of additional collateral in the form of letters of credit or cash under various credit, commodity and capacity agreements and trigger termination clauses in some interest rate derivative agreements, which would require cash payments. All of these events would likely reduce the Duke Energy Registrants' liquidity and profitability and could have a material effect on their results of operations, financial position and cash flows.

Non-compliance with debt covenants or conditions could adversely affect the Duke Energy Registrants' ability to execute future borrowings.

The Duke Energy Registrants' debt and credit agreements contain various financial and other covenants. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements.

Market performance and other changes may decrease the value of the NDTF investments of Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, which then could require significant additional funding.

Ownership and operation of nuclear generation facilities also requires the maintenance of funded trusts that are intended to pay for the decommissioning costs of the respective nuclear power plants. The performance of the capital markets affects the values of the assets held in trust to satisfy these future obligations. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida have significant obligations in this area and hold significant assets in these trusts. These assets are subject to market fluctuations and will yield uncertain returns, which may fall below projected rates of return. Although a number of factors impact funding requirements, a decline in the market value of the assets may increase the funding requirements of the obligations for decommissioning nuclear plants. If Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are unable to successfully manage their NDTF assets, their results of operations, financial position and cash flows could be negatively affected.

Poor investment performance of the Duke Energy pension plan holdings and other factors impacting pension plan costs could unfavorably impact the Duke Energy Registrants' liquidity and results of operations.

The costs of providing non-contributory defined benefit pension plans are dependent upon a number of factors, such as the rates of return on plan assets, discount rates, the level of interest rates used to measure the required minimum funding levels of the plans, future government regulation and required or voluntary contributions made to the plans. The Subsidiary Registrants are allocated their proportionate share of the cost and obligations related to these plans. Without sustained growth in the pension investments over time to increase the value of plan assets and, depending upon the other factors impacting costs as listed above, Duke Energy could be required to fund its plans with significant amounts of cash. Such cash funding obligations, and the Subsidiary Registrants' proportionate share of such cash funding obligations, could have a material impact on the Duke Energy Registrants' results of operations, financial position and cash flows.

Duke Energy is a holding company and depends on the cash flows from its subsidiaries to meet its financial obligations.

Because Duke Energy is a holding company with no operations or cash flows of its own, its ability to meet its financial obligations, including making interest and principal payments on outstanding indebtedness and to pay dividends on its common stock, is primarily dependent on the net income and cash flows of its subsidiaries and the ability of those subsidiaries to pay upstream dividends or to repay borrowed funds. Prior to funding Duke Energy, its subsidiaries have regulatory restrictions and financial obligations that must be satisfied. These subsidiaries are separate legal entities and have no obligation to provide Duke Energy with funds. In addition, Duke Energy may provide capital contributions or debt financing to its subsidiaries under certain circumstances, which would reduce the funds available to meet its financial obligations, including making interest and principal payments on outstanding indebtedness and to pay dividends on Duke Energy's common stock.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

ELECTRIC UTILITIES AND INFRASTRUCTURE

The following table provides information related to the Electric Utilities and Infrastructure's generation stations as of December 31, 2018. The MW displayed in the table below are based on summer capacity. Ownership interest in all facilities is 100 percent unless otherwise indicated.

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Carolinas				
Oconee	Nuclear	Uranium	SC	2,554
McGuire	Nuclear	Uranium	NC	2,316
Catawba ^(a)	Nuclear	Uranium	SC	445
Belews Creek	Fossil	Coal	NC	2,220
Marshall	Fossil	Coal	NC	2,058
J.E. Rogers	Fossil	Coal	NC	1,388
Lincoln CT	Fossil	Gas/Oil	NC	1,193
Allen	Fossil	Coal	NC	1,098
Rockingham CT	Fossil	Gas/Oil	NC	825
Buck CC	Fossil	Gas	NC	668
Dan River CC	Fossil	Gas	NC	662
Mill Creek CT	Fossil	Gas/Oil	SC	563
W.S. Lee CC ^(b)	Fossil	Gas	SC	686
W.S. Lee	Fossil	Gas	SC	170
W.S. Lee CT	Fossil	Gas/Oil	SC	84
Bad Creek	Hydro	Water	SC	1,360
Jocassee	Hydro	Water	SC	780
Cowans Ford	Hydro	Water	NC	324
Keowee	Hydro	Water	SC	152
Other small facilities (23 plants)	Hydro	Water	NC/SC	632
Distributed generation	Renewable	Solar	NC	31
Total Duke Energy Carolinas				20,209

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Progress				
Brunswick	Nuclear	Uranium	NC	1,870
Harris	Nuclear	Uranium	NC	932
Robinson	Nuclear	Uranium	SC	741
Roxboro	Fossil	Coal	NC	2,439
Smith CC	Fossil	Gas/Oil	NC	1,073
H.F. Lee CC	Fossil	Gas/Oil	NC	888
Wayne County CT	Fossil	Gas/Oil	NC	857
Smith CT	Fossil	Gas/Oil	NC	772
Darlington CT	Fossil	Gas/Oil	SC	613
Mayo	Fossil	Coal	NC	727
L.V. Sutton CC	Fossil	Gas/Oil	NC	607
Asheville	Fossil	Coal	NC	378
Asheville CT	Fossil	Gas/Oil	NC	320
Weatherspoon CT	Fossil	Gas/Oil	NC	124
L.V. Sutton CT (Black Start)	Fossil	Gas/Oil	NC	78
Blewett CT	Fossil	Oil	NC	52
Walters	Hydro	Water	NC	112
Other small facilities (3 plants)	Hydro	Water	NC	115
Distributed generation	Renewable	Solar	NC	49
Total Duke Energy Progress				12,747

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Florida				
Citrus County CC	Fossil	Gas	FL	1,632
Crystal River	Fossil	Coal	FL	1,422
Hines CC	Fossil	Gas/Oil	FL	2,045
Bartow CC	Fossil	Gas/Oil	FL	1,104
Anclote	Fossil	Gas	FL	1,003
Intercession City CT	Fossil	Gas/Oil	FL	951
Osprey CC	Fossil	Gas/Oil	FL	582
DeBary CT	Fossil	Gas/Oil	FL	561
Tiger Bay CC	Fossil	Gas/Oil	FL	200
Bartow CT	Fossil	Gas/Oil	FL	168
Bayboro CT	Fossil	Oil	FL	171
Suwannee River CT	Fossil	Gas	FL	149
Higgins CT	Fossil	Gas/Oil	FL	107
Avon Park CT	Fossil	Gas/Oil	FL	48
University of Florida CoGen CT	Fossil	Gas	FL	44
Hamilton	Renewable	Solar	FL	43
Distributed generation	Renewable	Solar	FL	8
Total Duke Energy Florida				10,238

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Ohio				
East Bend	Fossil	Coal	KY	600
Woodsdale CT	Fossil	Gas/Propane	OH	476
Beckjord Battery Storage	Renewable	Storage	OH	4
Total Duke Energy Ohio				1,080

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Indiana				
Gibson ^(c)	Fossil	Coal	IN	2,822
Cayuga ^(d)	Fossil	Coal/Oil	IN	1,005
Edwardsport	Fossil	Coal	IN	595
Madison CT	Fossil	Gas	OH	566
Vermillion CT ^(e)	Fossil	Gas	IN	360
Wheatland CT	Fossil	Gas	IN	450
Noblesville CC	Fossil	Gas/Oil	IN	264
Gallagher	Fossil	Coal	IN	280
Henry County CT	Fossil	Gas/Oil	IN	129
Cayuga CT	Fossil	Gas/Oil	IN	80
Markland	Hydro	Water	IN	45
Distributed generation	Renewable	Solar	IN	10
Total Duke Energy Indiana				6,606

	Owned MW Capacity
Totals by Type	
Total Electric Utilities	50,880
Totals By Plant Type	
Nuclear	8,858
Fossil	38,357
Hydro	3,520
Renewable	145
Total Electric Utilities	50,880

- (a) Jointly owned with North Carolina Municipal Power Agency Number 1, NCEMC and PMPA. Duke Energy Carolinas' ownership is 19.25 percent of the facility.
- (b) Jointly owned with NCEMC. Duke Energy Carolinas' ownership is 86.67 percent of the facility.
- (c) Duke Energy Indiana owns and operates Gibson Station Units 1 through 4 and is a joint owner of unit 5 with WVPA and Indiana Municipal Power Agency. Duke Energy Indiana operates unit 5 and owns 50.05 percent.
- (d) Includes Cayuga Internal Combustion.
- (e) Jointly owned with WVPA. Duke Energy Indiana's ownership is 62.50 percent of the facility.

The following table provides information related to Electric Utilities and Infrastructure's electric transmission and distribution properties as of December 31, 2018.

	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Electric Transmission Lines						
Miles of 500 to 525 kV	1,036	576	292	168	—	—
Miles of 345 kV	1,145	—	—	—	421	724
Miles of 230 kV	8,344	2,657	3,396	1,638	—	653
Miles of 100 to 161 kV	12,509	6,830	2,565	891	821	1,402
Miles of 13 to 69 kV	8,345	3,014	12	2,200	612	2,507
Total conductor miles of electric transmission lines	31,379	13,077	6,265	4,897	1,854	5,286
Electric Distribution Lines						
Miles of overhead lines	174,200	66,600	46,500	25,600	13,300	22,200
Miles of underground line	106,000	38,500	30,000	22,500	6,000	9,000
Total conductor miles of electric distribution lines	280,200	105,100	76,500	48,100	19,300	31,200
Number of electric transmission and distribution substations	3,291	1,476	512	493	310	500

Substantially all of Electric Utilities and Infrastructure's electric plant in service is mortgaged under indentures relating to Duke Energy Carolinas', Duke Energy Progress', Duke Energy Florida's, Duke Energy Ohio's and Duke Energy Indiana's various series of First Mortgage Bonds.

GAS UTILITIES AND INFRASTRUCTURE

Gas Utilities and Infrastructure owns transmission pipelines and distribution mains that are generally underground, located near public streets and highways, or on property owned by others for which Duke Energy Ohio and Piedmont have obtained the necessary legal rights to place and operate facilities on such property located within the Gas Utilities and Infrastructure service territories. The following table provides information related to Gas Utilities and Infrastructure's natural gas distribution.

	Duke Energy	Duke Energy Ohio	Piedmont
Miles of natural gas distribution and transmission pipelines	33,300	7,200	26,100
Miles of natural gas service lines	27,700	7,000	20,700

COMMERCIAL RENEWABLES

The following table provides information related to Commercial Renewables' electric generation facilities as of December 31, 2018. The MW displayed in the table below are based on nameplate capacity. Ownership interest in all facilities is 100 percent unless otherwise indicated.

Facility	Plant Type	Location	Owned MW Capacity
Commercial Renewables – Wind			
Los Vientos (five sites)	Renewable	TX	912
Top of the World	Renewable	WY	200
Frontier	Renewable	OK	201
Notrees	Renewable	TX	153
Campbell Hill	Renewable	WY	99
North Allegheny	Renewable	PA	70
Laurel Hill	Renewable	PA	69
Ocotillo	Renewable	TX	59
Kit Carson	Renewable	CO	51
Silver Sage	Renewable	WY	42
Happy Jack	Renewable	WY	29
Shirley	Renewable	WI	20
Sweetwater IV ^(a)	Renewable	TX	113
Sweetwater V ^(a)	Renewable	TX	38
Ironwood ^(a)	Renewable	KS	84
Cimarron II ^(a)	Renewable	KS	66
Mesquite Creek ^(a)	Renewable	TX	106
Total Renewables – Wind			2,312
Commercial Renewables – Solar			
Conetoe II	Renewable	NC	80
Seville I & II	Renewable	CA	50
Rio Bravo I & II	Renewable	CA	40
Wildwood I & II	Renewable	CA	35
Caprock	Renewable	NM	25
Shoreham ^(b)	Renewable	NY	25
Kelford	Renewable	NC	22
Highlander	Renewable	CA	21
Dogwood	Renewable	NC	20
Halifax Airport	Renewable	NC	20
Pasquotank	Renewable	NC	20
Pumpjack	Renewable	CA	20
Shawboro	Renewable	NC	20
Longboat	Renewable	CA	20
Bagdad	Renewable	AZ	15
TX Solar	Renewable	TX	14
Creswell Alligood	Renewable	NC	14
Victory	Renewable	CO	13
Washington White Post	Renewable	NC	12
Whitakers	Renewable	NC	12
Other small solar ^(b)	Renewable	Various	145
Total Renewables – Solar			643
Commercial Renewables – Energy Storage			
Notrees Battery Storage	Renewable	TX	36
Total Renewables – Energy Storage			36
Total Commercial Renewables			2,991

- (a) Commercial Renewables owns 47 percent of Sweetwater IV and V and 50 percent of Ironwood, Cimarron II and Mesquite Creek.
(b) Shoreham and certain projects included in Other small solar are in tax-equity structures where investors have differing interests in the project's economic attributes. 100 percent of the tax-equity project's capacity is included in the table above.

OTHER

Duke Energy owns approximately 8 million square feet and leases approximately 2 million square feet of corporate, regional and district office space spread throughout its service territories.

ITEM 3. LEGAL PROCEEDINGS

For information regarding legal proceedings, including regulatory and environmental matters, see Note 4, "Regulatory Matters," and Note 5, "Commitments and Contingencies," to the Consolidated Financial Statements.

MTBE Litigation

On June 19, 2014, the Commonwealth of Pennsylvania filed suit against, among others, Duke Energy Merchants, alleging contamination of waters of the state by MTBE from leaking gasoline storage tanks. MTBE is a gasoline additive intended to increase the oxygen level in gasoline and make it burn cleaner. The lawsuit was moved to federal court and consolidated into an existing multidistrict litigation docket of pending MTBE cases. This suit was settled for an immaterial amount in December 2017 and dismissed in January 2018.

In December 2017, the state of Maryland filed a lawsuit in Baltimore City Circuit Court against Duke Energy Merchants and other defendants alleging contamination of its water supplies from MTBE. The case was removed to the U.S. District Court in Baltimore. Duke Energy cannot predict the outcome of this matter.

ITEM 4. MINE SAFETY DISCLOSURES

This is not applicable for any of the Duke Energy Registrants.

SECURITIES INFORMATION

ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

The common stock of Duke Energy is listed and traded on the NYSE (ticker symbol DUK). As of January 31, 2019, there were 149,275 Duke Energy common stockholders of record. For information on dividends, see the "Dividend Payments" section of Management's Discussion and Analysis.

There is no market for the common equity securities of the Subsidiary Registrants, all of which are directly or indirectly owned by Duke Energy.

Securities Authorized for Issuance Under Equity Compensation Plans

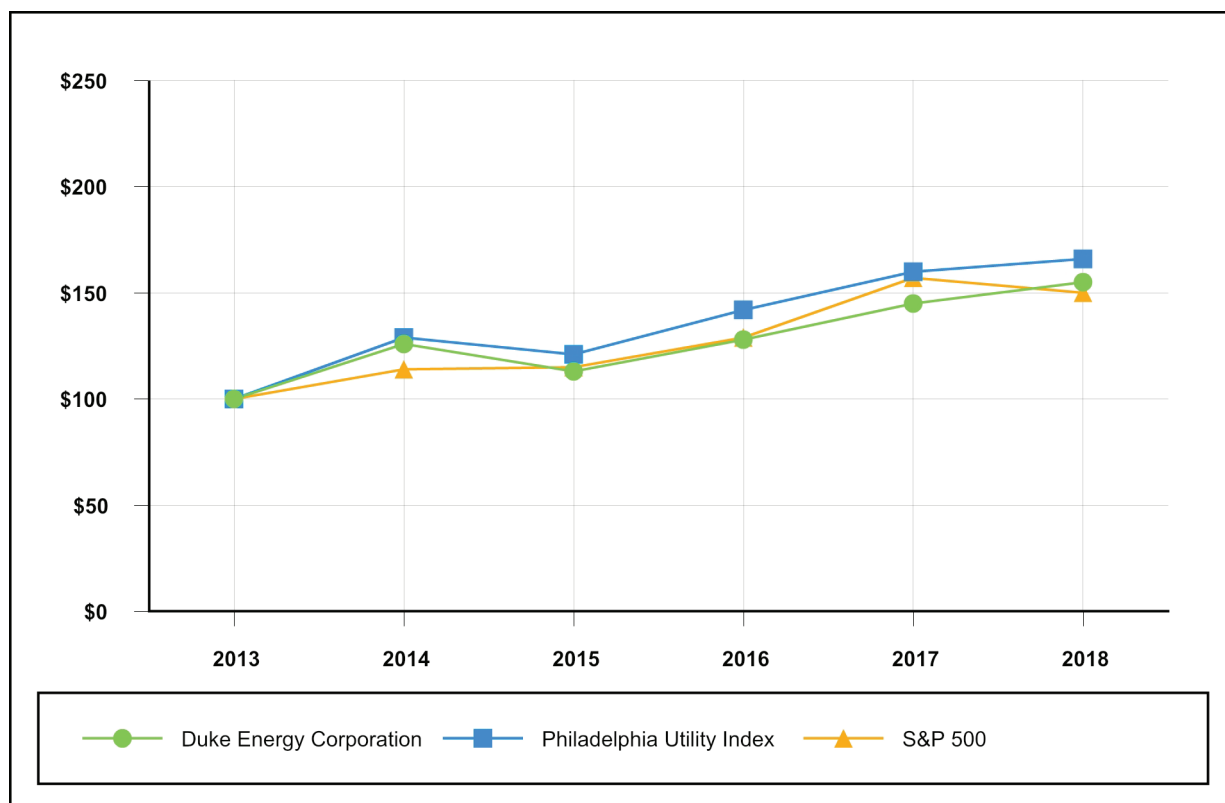
See Item 12 of Part III within this Annual Report for information regarding Securities Authorized for Issuance Under Equity Compensation Plans.

Issuer Purchases of Equity Securities for Fourth Quarter 2018

There were no repurchases of equity securities during the fourth quarter of 2018.

Stock Performance Graph

The following performance graph compares the cumulative total shareholder return from Duke Energy Corporation common stock, as compared with the S&P 500 and the Philadelphia Utility Index for the past five years. The graph assumes an initial investment of \$100 on December 31, 2013, in Duke Energy common stock, in the S&P 500 and in the Philadelphia Utility Index and that all dividends were reinvested. The stockholder return shown below for the five-year historical period may not be indicative of future performance.



NYSE CEO Certification

Duke Energy has filed the certification of its Chief Executive Officer and Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 as exhibits to this Annual Report on Form 10-K for the year ended December 31, 2018.

SELECTED FINANCIAL DATA

ITEM 6. SELECTED FINANCIAL DATA

The following table provides selected financial data for the years of 2014 through 2018. See also Item 7.

(in millions, except per share amounts)	2018	2017	2016	2015	2014
Statements of Operations^(a)					
Total operating revenues	\$ 24,521	\$ 23,565	\$ 22,743	\$ 22,371	\$ 22,509
Operating income	4,685	5,625	5,202	4,974	4,795
Income from continuing operations	2,625	3,070	2,578	2,654	2,538
Income (Loss) from discontinued operations, net of tax	19	(6)	(408)	177	(649)
Net income	2,644	3,064	2,170	2,831	1,889
Net income attributable to Duke Energy Corporation	2,666	3,059	2,152	2,816	1,883
Common Stock Data					
Income from continuing operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ 3.73	\$ 4.37	\$ 3.71	\$ 3.80	\$ 3.58
Diluted	3.73	4.37	3.71	3.80	3.58
Income (Loss) from discontinued operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ 0.03	\$ (0.01)	\$ (0.60)	\$ 0.25	\$ (0.92)
Diluted	0.03	(0.01)	(0.60)	0.25	(0.92)
Net income attributable to Duke Energy Corporation common stockholders					
Basic	\$ 3.76	\$ 4.36	\$ 3.11	\$ 4.05	\$ 2.66
Diluted	3.76	4.36	3.11	4.05	2.66
Dividends declared per share of common stock	3.64	3.49	3.36	3.24	3.15
Balance Sheet					
Total assets	\$ 145,392	\$ 137,914	\$ 132,761	\$ 121,156	\$ 120,557
Long-term debt including capital leases, less current maturities	51,123	49,035	45,576	36,842	36,075

- (a) Significant transactions reflected in the results above include: (i) regulatory and legislative charges related to Duke Energy Progress and Duke Energy Carolinas North Carolina rate case orders and impairment charges in 2018 (see Notes 4, 11 and 12 to the Consolidated Financial Statements, "Regulatory Matters," "Goodwill and Intangible Assets" and "Investments in Unconsolidated Affiliates"); (ii) the sale of the International Disposal Group in 2016, including a loss on sale recorded within discontinued operations (see Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions"); (iii) the acquisition of Piedmont in 2016, including losses on interest rate swaps related to the acquisition financing (see Note 2); (iv) 2014 impairment related to the disposal of the Midwest Generation Disposal Group; (v) 2014 incremental tax expense resulting from the decision to repatriate all cumulative historical undistributed foreign earnings; (vi) 2014 increase in the litigation reserve related to a criminal investigation of the Dan River release.

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Management's Discussion and Analysis includes financial information prepared in accordance with GAAP in the U.S., as well as certain non-GAAP financial measures such as adjusted earnings and adjusted earnings per share discussed below. Generally, a non-GAAP financial measure is a numerical measure of financial performance, financial position or cash flows that excludes (or includes) amounts that are included in (or excluded from) the most directly comparable measure calculated and presented in accordance with GAAP. The non-GAAP financial measures should be viewed as a supplement to, and not a substitute for, financial measures presented in accordance with GAAP. Non-GAAP measures as presented herein may not be comparable to similarly titled measures used by other companies.

The following combined Management's Discussion and Analysis of Financial Condition and Results of Operations is separately filed by Duke Energy Corporation (collectively with its subsidiaries, Duke Energy) and its subsidiaries Duke Energy Carolinas, LLC (Duke Energy Carolinas), Progress Energy, Inc. (Progress Energy), Duke Energy Progress, LLC (Duke Energy Progress), Duke Energy Florida, LLC (Duke Energy Florida), Duke Energy Ohio, Inc. (Duke Energy Ohio), Duke Energy Indiana, LLC (Duke Energy Indiana) and Piedmont Natural Gas Company, Inc. (Piedmont). However, none of the registrants make any representation as to information related solely to Duke Energy or the subsidiary registrants of Duke Energy other than itself. Subsequent to Duke Energy's acquisition of Piedmont on October 3, 2016, Piedmont is a wholly owned subsidiary of Duke Energy. The financial information for Duke Energy includes results of Piedmont subsequent to October 3, 2016. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information regarding the acquisition.

DUKE ENERGY

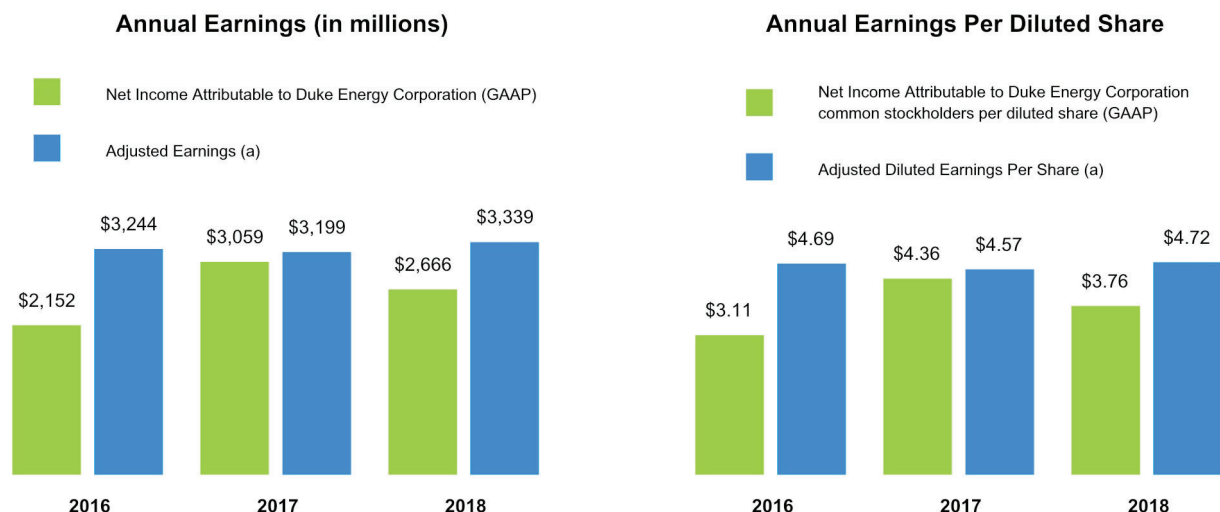
Duke Energy is an energy company headquartered in Charlotte, North Carolina. Duke Energy operates in the U.S. primarily through its wholly owned subsidiaries, Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont. When discussing Duke Energy's consolidated financial information, it necessarily includes the results of the Subsidiary Registrants, which along with Duke Energy, are collectively referred to as the Duke Energy Registrants.

Management's Discussion and Analysis should be read in conjunction with the Consolidated Financial Statements and Notes for the years ended December 31, 2018, 2017 and 2016.

Executive Overview

At Duke Energy the fundamentals of our business are strong. In 2018, we met our near-term financial commitments and positioned the company for sustainable long-term growth. We are focused on a stable, predictable and regulated businesses portfolio to deliver a reliable dividend with 4 to 6 percent EPS growth through 2023. We have made progress advancing our long-term growth strategy that delivers value to our customers through investments in cleaner energy, grid modernization, natural gas infrastructure, and digital transformation, while also achieving constructive regulatory outcomes. The strength of our balance sheet is of vital importance to the cost-effective financing of our growth strategy, and in 2018 we took proactive steps to strengthen it by issuing \$2 billion of equity.

Financial Results



(a) See Results of Operations below for Duke Energy's definition of adjusted earnings and adjusted diluted earnings per share as well as a reconciliation of this non-GAAP financial measure to net income attributable to Duke Energy and net income attributable to Duke Energy per diluted share.

Duke Energy's 2018 GAAP reported earnings were impacted by favorable weather, improved residential volumes and ongoing cost management efforts, offset by charges which management believes are not indicative of ongoing performance, including regulatory and legislative items, impairments, a loss on the sale of a retired plant, and severance. See "Results of Operations" below for a detailed discussion of the consolidated results of operations and a detailed discussion of financial results for each of Duke Energy's reportable business segments, as well as Other.

2018 Areas of Focus and Accomplishments

Operational Excellence and Reliability. The safety of our workforce is a core value. Our employees delivered strong safety results in 2018, and we maintained our industry-leading performance levels from 2016 and 2017. The reliable and safe operation of our power plants, electric distribution system and natural gas infrastructure is foundational to our customers, our financial results and our credibility with stakeholders. Our nuclear and fossil/hydro generation fleets demonstrated strong performance, exceeding their respective reliability targets. Five of our six nuclear sites have achieved INPO 1 status, the industry's highest distinction. Our electric distribution system performed well throughout the year, though we see opportunities to reduce outage durations.

Storm Response and System Restoration. 2018 was a year of intense storm activity, with Hurricane Florence and Hurricane Michael delivering a significant impact to our jurisdictions. Employees and utility partners worked tirelessly to restore 3 million outages during the hurricane season. Our team restored 93 percent of outages within five days during Hurricane Florence and 90 percent of outages within three days during Hurricane Michael. Our ability to effectively handle all facets of the 2018 storm response efforts is a testament to our team's extensive preparation and coordination in advance of the storm, applying lessons learned from previous storms, and on-the-ground management throughout the restoration efforts.

Customer Satisfaction. Duke Energy continues to transform the customer experience through our use of customer data to better inform operational priorities and performance levels. This data-driven approach allows us to identify the investments that are the most important to the customer experience. In 2018, we instituted more proactive communications, such as text alerts during outages, in response to customer expectations. Over time our work with data analytics will result in customer satisfaction improvement as measured through J.D. Power and other surveys.

Constructive Regulatory and Legislative Outcomes. One of our long-term strategic goals is to achieve modernized regulatory constructs in our jurisdictions. Modernized constructs provide benefits, which include improved earnings and cash flows through more timely recovery of investments, as well as stable pricing for customers. We achieved constructive regulatory outcomes in 2018 in North Carolina for both Duke Energy Carolinas and Duke Energy Progress, including the recovery of coal ash basin closure costs. The Ohio Comprehensive Settlement Agreement in 2018, approved by PUCO, was a favorable outcome that will enable the creation of a new PowerForward rider to recover costs associated with projects to modernize the grid and transform the customer experience. We are making progress in addressing tax reform across our jurisdictions, targeting solutions that provide benefits to customers and support the long-term credit quality of our utilities.

Cost Management and Efficiencies. Duke Energy has a demonstrated track record of driving efficiencies and productivity into the business, including merger integration and continuous improvement efforts. We continue to leverage new technology and data analytics to drive additional efficiencies across the business in response to a transforming landscape. In 2018, we established a digital transformation initiative that is tasked with identifying the best ways to use digital capabilities throughout our business.

Modernizing the Power Grid. Our grid improvement programs continue to be a key component of our growth strategy. Modernization of the electric grid, including smart meters, storm hardening, self-healing and targeted undergrounding helps to ensure the system is better prepared for severe weather, improves the system's reliability and flexibility, and provides better information and services for customers. Grid improvements enable successful storm response; for example, in the Carolinas, self-healing grid technologies rerouted power from damaged lines and systems to minimize outages. In 2018, we deployed 1.6 million smart meters resulting in 4.3 million customers having access to this technology across our regulated footprint.

Generating Cleaner Energy. We advanced efforts to generate cleaner energy, including progress on several strategic investments during 2018. Overall, we have lowered our carbon emissions by over 30 percent since 2005, consistent with our goal to reduce carbon emissions by 40 percent by 2030. Two natural gas plants came online in 2018 and construction continues on a third one. In our Commercial Renewable business, our Shoreham solar facility came online in 2018.

Expanding the Natural Gas Platform. We continue to pursue natural gas infrastructure investments. We are working diligently to construct the ACP pipeline to bring low-cost gas supply and economic development opportunities to the Mid-Atlantic. While we navigate the impacts of permitting delays and court rulings, we remain steadfast in our commitment to this backbone infrastructure for the southeast U.S. In 2018, Piedmont announced plans to construct a new liquefied natural gas facility in Robeson County North Carolina on property Piedmont already owns. This investment will help Piedmont provide a reliable gas supply to customers during peak usage periods. We expect to begin construction in the summer of 2019.

Dividend Growth. In 2018, Duke Energy continued to grow the dividend payment to shareholders by approximately 4 percent. 2018 represented the 92nd consecutive year Duke Energy paid a cash dividend on its common stock.

Duke Energy Objectives – 2019 and Beyond

Duke Energy will continue to deliver exceptional value to customers, be an integral part of the communities in which we do business, and provide attractive returns to investors. We have an achievable, long-term strategy in place and it is producing tangible results, yet the industry in which we operate is becoming more and more dynamic. We are adjusting, where necessary, and accelerating our focus in key areas to ensure the company is well positioned to be successful for many decades into the future. As we look ahead to 2019, our plans include:

- Continuing to place the customer at the center of all that we do.
- Advancing the achievement of modernized regulatory constructs across all jurisdictions, including consideration of cost recovery models that break the link between load growth and earnings.
- Improving and strengthening the energy grid to provide customers with more control, convenience and communications, and make the grid more resilient to severe weather and ever-evolving cyber threats.
- Investing in both natural gas generation and infrastructure to support our growing gas system, as we replace coal units and continue to expand our LDC customer base in the Carolinas and Midwest.
- Increasing renewables, energy storage and next-generation demand-side management into our supply/demand resource plans, in pursuit of a growth strategy that leverages these resources to provide choices that our customers value.
- Modernizing the way we plan and build our generation, transmission, distribution and customer systems in a fully integrated way through Integrated System and Operations Planning to accommodate increased distributed energy resources.
- Transforming the business using multiple levers, including digital tools, to increase productivity and reinvest the proceeds into new growth opportunities, improved customer service, and lower bills for customers.

Results of Operations

Non-GAAP Measures

Management evaluates financial performance in part based on non-GAAP financial measures, including adjusted earnings and adjusted diluted EPS. These items represent income from continuing operations attributable to Duke Energy, adjusted for the dollar and per share impact of special items. As discussed below, special items include certain charges and credits, which management believes are not indicative of Duke Energy's ongoing performance. Management believes the presentation of adjusted earnings and adjusted diluted EPS provides useful information to investors, as it provides them with an additional relevant comparison of Duke Energy's performance across periods.

Management uses these non-GAAP financial measures for planning and forecasting, and for reporting financial results to the Board of Directors, employees, stockholders, analysts and investors. Adjusted diluted EPS is also used as a basis for employee incentive bonuses. The most directly comparable GAAP measures for adjusted earnings and adjusted diluted EPS are GAAP Reported Earnings and GAAP Reported EPS, respectively.

Special items included in the periods presented include the following, which management believes do not reflect ongoing costs:

- Costs to Achieve Mergers represents charges that result from strategic acquisitions.
- Regulatory and Legislative Impacts in 2018 represents charges related to the Duke Energy Progress and Duke Energy Carolinas North Carolina rate case orders and the repeal of the South Carolina Base Load Review Act. For 2017, it represents charges related to the Levy nuclear project in Florida and the Mayo Zero Liquid Discharge and Sutton combustion turbine projects in North Carolina.
- Impairment Charges in 2018 represents an impairment at Citrus County CC, a goodwill impairment at Commercial Renewables and an other-than-temporary impairment of an investment in Constitution Pipeline Company, LLC. For 2017 and 2016, the charges represent goodwill and other-than-temporary asset impairments at Commercial Renewables.
- Sale of Retired Plant represents the loss associated with selling Beckjord, a nonregulated generating facility in Ohio.
- Impacts of the Tax Act represents amounts recognized related to the Tax Act.
- Severance Charges relate to companywide initiatives, excluding merger integration, to standardize processes and systems, leverage technology and workforce optimization.

Adjusted earnings also include the operating results of the International Disposal Group, which has been classified as discontinued operations. Management believes inclusion of the operating results of the International Disposal Group within adjusted earnings and adjusted diluted EPS results in a better reflection of Duke Energy's financial performance during the period.

Duke Energy's adjusted earnings and adjusted diluted EPS may not be comparable to similarly titled measures of another company because other companies may not calculate the measures in the same manner.

Reconciliation of GAAP Reported Amounts to Adjusted Amounts

The following table presents a reconciliation of adjusted earnings and adjusted diluted EPS to the most directly comparable GAAP measures.

(in millions, except per share amounts)	Years Ended December 31,					
	2018		2017		2016	
	Earnings	EPS	Earnings	EPS	Earnings	EPS
GAAP Reported Earnings/EPS	\$ 2,666	\$ 3.76	\$ 3,059	\$ 4.36	\$ 2,152	\$ 3.11
Adjustments to Reported:						
Costs to Achieve Mergers ^(a)	65	0.09	64	0.09	329	0.48
Regulatory and Legislative Impacts ^(b)	202	0.29	98	0.14	—	—
Impairment Charges ^(c)	179	0.25	74	0.11	45	0.07
Sale of Retired Plant ^(d)	82	0.12	—	—	—	—
Impacts of the Tax Act ^(e)	20	0.03	(102)	(0.14)	—	—
Severance Charges ^(f)	144	0.21	—	—	57	0.08
Discontinued Operations ^(g)	(19)	(0.03)	6	0.01	661	0.95
Adjusted Earnings/Adjusted Diluted EPS	\$ 3,339	\$ 4.72	\$ 3,199	\$ 4.57	\$ 3,244	\$ 4.69

- (a) Net of tax benefit of \$19 million in 2018, \$39 million in 2017, and \$194 million in 2016.
- (b) Net of tax benefit of \$63 million in 2018 and \$60 million in 2017.
- (c) Net of \$27 million tax benefit and \$2 million Noncontrolling Interests in 2018. Net of \$28 million tax benefit in 2017 and \$26 million in 2016.
- (d) Net of \$25 million tax benefit.
- (e) The Tax Act reduced the corporate income tax rate from 35 to 21 percent, effective January 1, 2018. As the tax change was enacted in 2017, Duke Energy was required to remeasure its existing deferred tax assets and liabilities at the lower rate at December 31, 2017. For Duke Energy's regulated operations, where the reduction in the net accumulated deferred income tax liability is expected to be returned to customers in future rates, the remeasurement has been deferred as a regulatory liability. For 2018, the amount represents a true up of existing regulatory liabilities related to the Tax Act. See Note 23 to the Consolidated Financial Statements, "Income Taxes" for more information.
- (f) Net of tax benefit of \$43 million in 2018 and \$35 million in 2016.
- (g) For 2016, includes a loss on sale of the International Disposal Group. Represents the GAAP reported Loss from Discontinued Operations, less the International Disposal Group operating results, which are included in adjusted earnings. For 2017 and 2018, amounts reflect adjustments related to the sale of the International Disposal Group, primarily related to estimated tax expense.

Year Ended December 31, 2018, as compared to 2017

Duke Energy's full-year 2018 GAAP Reported EPS was \$3.76 compared to \$4.36 for full-year 2017. In addition to the adjusted diluted EPS drivers discussed below, GAAP Reported EPS in 2018 was lower primarily due to regulatory and legislative impacts, impairment charges, severance charges and a loss on sale of a retired plant.

As discussed, management also evaluates financial performance based on adjusted earnings. Duke Energy's full-year 2018 adjusted diluted EPS was \$4.72 compared to \$4.57 for full-year 2017. The increase in adjusted diluted EPS was primarily due to:

- Higher regulated electric revenues due to favorable weather and higher retail sales volumes in the current year;
- Positive impacts from the North Carolina rate case orders; and
- Rider growth.

Partially offset by:

- Higher interest expense due to higher debt outstanding and higher interest rates;
- Higher depreciation and amortization expense at Electric Utilities and Infrastructure primarily due to rate base growth; and
- A reduced tax benefit on holding company interest as a result of the Tax Act.

Year Ended December 31, 2017, as compared to 2016

Duke Energy's full-year 2017 GAAP Reported EPS was \$4.36 compared to \$3.11 for full-year 2016. In addition to the adjusted diluted EPS drivers discussed below, GAAP Reported EPS in 2017 was higher primarily due to a \$0.14 benefit per share related to the Tax Act in 2017, lower costs to achieve the Piedmont merger and a loss on sale and impairments associated with the sale of the International Disposal Group in 2016, partially offset by charges of \$0.14 related to regulatory settlements in Electric Utilities and Infrastructure.

As discussed, management also evaluates financial performance based on adjusted earnings. Duke Energy's full-year 2017 adjusted diluted EPS was \$4.57 compared to \$4.69 for full-year 2016. The decrease in adjusted diluted EPS was primarily due to:

- Lower regulated electric revenues due to less favorable weather in the current year, including lost revenues related to Hurricane Irma;

- The prior year operating results from the International Disposal Group, which was sold in December 2016. The 2016 operating results included a benefit from the valuation of deferred income taxes. See Note 23 to the Consolidated Financial Statements, "Income Taxes," for additional information;
- Higher financing costs, primarily due to the Piedmont acquisition; and
- Higher depreciation and amortization expense at Electric Utilities and Infrastructure primarily due to higher depreciable base.

Partially offset by:

- Higher regulated electric revenues from increased pricing and riders driven by new rates in Duke Energy Progress South Carolina, base rate adjustments in Florida and energy efficiency rider revenues in North Carolina, as well as growth in weather-normal retail volumes;
- Lower operations, maintenance and other expenses, net of amounts recoverable in rates, at Electric Utilities and Infrastructure resulting from ongoing cost efficiency efforts and lower year-to-date storm costs than the prior year; and
- Additional earnings from incremental investments in ACP and Sabal Trail natural gas pipelines.

SEGMENT RESULTS

The remaining information presented in this discussion of results of operations is on a GAAP basis. Management evaluates segment performance based on segment income. Segment income is defined as income from continuing operations net of income attributable to noncontrolling interests. Segment income includes intercompany revenues and expenses that are eliminated in the Consolidated Financial Statements.

Duke Energy's segment structure includes the following segments: Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables. The remainder of Duke Energy's operations is presented as Other. See Note 3 to the Consolidated Financial Statements, "Business Segments," for additional information on Duke Energy's segment structure.

The Tax Act

On December 22, 2017, President Trump signed the Tax Act into law. Among other provisions, the Tax Act lowered the corporate federal income tax rate from 35 to 21 percent, limits interest deductions outside of regulated utility operations, requires the normalization of excess deferred taxes associated with property under the average rate assumption method as a prerequisite to qualifying for accelerated depreciation and repealed the federal manufacturing deduction. The Tax Act also repealed the corporate AMT and stipulates a refund of 50 percent of remaining AMT credit carryforwards (to the extent the credits exceed regular tax for the year) for tax years 2018, 2019 and 2020 with all remaining AMT credits to be refunded in tax year 2021.

As a result of the Tax Act, Duke Energy revalued its existing deferred tax assets and deferred tax liabilities as of December 31, 2017, to account for the estimated future impact of lower corporate tax rates on these deferred tax amounts. During the year ended December 31, 2018, Duke Energy recorded measurement period adjustments to the provisional estimate recorded as of December 31, 2017, in accordance with SAB 118. For Duke Energy's regulated operations, where the net reduction in the net accumulated deferred income tax liability is expected to be returned to customers in future rates, the remeasurement has been deferred as a regulatory liability. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information on the Tax Act's impact to the regulatory asset and liability accounts. The following table shows the expense (benefit) recorded on Duke Energy's Consolidated Statements of Operations.

(in millions)	Years Ended December 31,	
	2018	2017
Electric Utilities and Infrastructure ^(c)	\$ 24	\$ (231)
Gas Utilities and Infrastructure ^{(d)(e)}	1	(26)
Commercial Renewables	(3)	(442)
Other ^(f)	(2)	597
Total impact of the Tax Act ^{(a)(b)(d)}	\$ 20	\$ (102)

- (a) Except where noted below, amounts are included within Income Tax Expense From Continuing Operations on the Consolidated Statements of Operations.
- (b) See Notes 4 and 23 to the Consolidated Financial Statements, "Regulatory Matters" and "Income Taxes," respectively, for information about the Tax Act's impact on Duke Energy's Consolidated Balance Sheets.
- (c) Amount primarily relates to the 2017 remeasurement, and true up of that remeasurement in 2018, of net deferred tax liabilities that are excluded for ratemaking purposes related to abandoned or impaired assets and certain wholesale fixed rate contracts.
- (d) 2017 amount includes a \$16 million expense recorded within Equity in earnings (losses) of unconsolidated affiliates on the Consolidated Statement of Operations.
- (e) 2017 amount primarily relates to the remeasurement of net deferred tax liabilities related to equity method investments.
- (f) 2017 amount primarily relates to the remeasurement of Foreign Tax Credits, federal NOLs and nonregulated deferred tax assets.

MD&A

SEGMENT RESULTS - ELECTRIC UTILITIES AND INFRASTRUCTURE

Electric Utilities and Infrastructure

(in millions)	Years Ended December 31,				
	2018	2017	Variance 2018 vs. 2017	2016	Variance 2017 vs. 2016
Operating Revenues	\$ 22,273	\$ 21,331	\$ 942	\$ 21,366	\$ (35)
Operating Expenses					
Fuel used in electric generation and purchased power	6,917	6,379	538	6,595	(216)
Operations, maintenance and other	5,631	5,360	271	5,433	(73)
Depreciation and amortization	3,523	3,010	513	2,897	113
Property and other taxes	1,134	1,079	55	1,021	58
Impairment charges	309	176	133	16	160
Total operating expenses	17,514	16,004	1,510	15,962	42
Gains on Sales of Other Assets and Other, net	8	6	2	—	6
Operating Income	4,767	5,333	(566)	5,404	(71)
Other Income and Expenses, net	378	472	(94)	444	28
Interest Expense	1,288	1,240	48	1,136	104
Income Before Income Taxes	3,857	4,565	(708)	4,712	(147)
Income Tax Expense	799	1,355	(556)	1,672	(317)
Segment Income	\$ 3,058	\$ 3,210	\$ (152)	\$ 3,040	\$ 170
Duke Energy Carolinas Gigawatt-hours (GWh) sales	92,280	87,305	4,975	88,545	(1,240)
Duke Energy Progress GWh sales	69,331	66,822	2,509	69,049	(2,227)
Duke Energy Florida GWh sales	41,559	40,591	968	40,404	187
Duke Energy Ohio GWh sales	25,329	24,639	690	25,163	(524)
Duke Energy Indiana GWh sales	34,229	33,145	1,084	34,368	(1,223)
Total Electric Utilities and Infrastructure GWh sales	262,728	252,502	10,226	257,529	(5,027)
Net proportional MW capacity in operation	49,684	48,828	856	49,295	(467)

Year Ended December 31, 2018, as compared to 2017

Electric Utilities and Infrastructure's results were impacted by higher legislative and regulatory charges compared to the prior year and higher depreciation from a growing asset base, partially offset by favorable weather in the current year, improved retail volumes, lower income tax expense and a positive net contribution from the Duke Energy Progress and Duke Energy Carolinas North Carolina rate cases. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The variance was driven primarily by:

- a \$577 million increase in fuel related revenues due to higher sales volumes driven primarily by favorable weather in the current year, and increases in fuel rates billed to customers, which reflects higher average fuel prices;
- a \$331 million increase in retail sales, net of fuel revenues, due to favorable weather in the current year;
- a \$236 million increase in retail pricing primarily due to the Duke Energy Progress and Duke Energy Carolinas North Carolina rate cases and Duke Energy Florida base rate adjustments related to generation assets being placed into service;
- a \$109 million increase in wholesale power revenues, net of fuel, primarily due to higher recovery of coal ash costs at Duke Energy Progress and Duke Energy Carolinas, partially offset by contracts that expired in the prior year at Duke Energy Indiana and customer refunds in the current year at Duke Energy Carolinas related to a FERC order on a complaint filed by PMPA;
- an \$82 million increase in weather-normal retail sales volumes driven by residential growth;
- a \$73 million net increase in retail rider revenues, primarily related to capital investment riders at Duke Energy Indiana and Duke Energy Ohio, partially offset by a net decrease in rider revenues related to the implementation of new base rates at Duke Energy Carolinas and Duke Energy Progress; and
- a \$49 million increase in other revenues at Duke Energy Carolinas primarily due to the recognition of previously deferred revenues associated with storm restoration costs in South Carolina and favorable transmission revenues.

Partially offset by:

- a \$578 million decrease in retail and wholesale sales due to revenues subject to refund to customers associated with the lower statutory federal corporate tax rate under the Tax Act.

Operating Expenses. The variance was driven primarily by:

- a \$538 million increase in fuel used in electric generation and purchased power due to higher sales and higher amortization of deferred fuel expenses;
- a \$513 million increase in depreciation and amortization expense primarily due to higher amortization of deferred coal ash costs, additional plant in service and new depreciation rates associated with the Duke Energy Progress and Duke Energy Carolinas North Carolina rate cases;
- a \$271 million increase in operation, maintenance and other expense primarily due to impacts associated with the Duke Energy Progress North Carolina rate case and higher storm costs, partially offset by a FERC approved settlement refund of certain transmission costs previously billed by PJM; and
- a \$133 million increase in impairment charges primarily due to the impacts associated with the Duke Energy Carolinas and Duke Energy Progress North Carolina rates cases and the Duke Energy Florida Citrus County CC impairments in the current year, offset by the write-off of remaining unrecovered Levy Nuclear project costs at Duke Energy Florida in the prior year.

Other Income and Expenses, net. The decrease was primarily due to lower post in-service equity returns for projects that had been completed prior to being reflected in customer rates at Duke Energy Carolinas and lower income from non-service components of employee benefit costs in the current year at Duke Energy Progress and Duke Energy Florida. For additional information on employee benefit costs, see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans."

Interest Expense. The variance was due to higher debt outstanding in the current year, partially offset by lower deferred debt costs on major projects.

Income Tax Expense. The variance was primarily due to the lower statutory federal corporate tax rate under the Tax Act, a decrease in pretax income and the impact of the Tax Act in the prior year. The ETRs for the years ended December 31, 2018, and 2017 were 20.7 percent and 29.7 percent, respectively. The decrease in the ETR was primarily due to the lower statutory federal corporate tax rate under the Tax Act and the amortization of excess deferred taxes partially offset by the impact of the Tax Act in the prior year. See the Tax Act section above for additional information.

Year Ended December 31, 2017, as compared to 2016

Electric Utilities and Infrastructure's results were impacted by the Tax Act, growth from investments, lower operations and maintenance expense and higher weather-normal retail sales volumes, partially offset by less favorable weather, impairment charges due to regulatory settlements, increased depreciation and amortization, higher interest expense and higher property and other taxes. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The variance was driven primarily by:

- a \$292 million decrease in retail sales, net of fuel revenue, due to less favorable weather in the current year; and
- a \$235 million decrease in fuel revenues driven by lower retail sales volumes, lower fuel prices included in rates and changes in the generation mix.

Partially offset by:

- a \$364 million increase in rider revenues including increased revenues related to energy efficiency programs, Duke Energy Florida's nuclear asset securitization, Midwest transmission and distribution capital investments and Duke Energy Indiana's Edwardsport IGCC plant, as well as an increase in retail pricing due to base rate adjustments for Duke Energy Florida's Osprey acquisition and Hines Chillers and the Duke Energy Progress South Carolina rate case;
- an \$86 million increase in weather-normal sales volumes to customers; and
- a \$26 million increase in other revenues primarily due to favorable transmission revenues.

Operating Expenses. The variance was driven primarily by:

- a \$160 million increase in impairment charges primarily due to the write-off of remaining unrecovered Levy Nuclear Project costs in the current year at Duke Energy Florida and the disallowance from rate base of certain projects at the Mayo and Sutton plants in the current year at Duke Energy Progress related to the partial settlement in the North Carolina rate case;
- a \$113 million increase in depreciation and amortization expense primarily due to additional plant in service; and
- a \$58 million increase in property and other taxes primarily due to higher property taxes.

Partially offset by:

- a \$216 million decrease in fuel expense (including purchased power) primarily due to lower retail sales and changes in the generation mix; and
- a \$73 million decrease in operation, maintenance and other expense primarily due to lower plant outage, storm restoration and labor and benefits costs partially offset by higher operational costs that are recoverable in rates.

Interest Expense. The variance was due to higher debt outstanding in the current year and Duke Energy Florida's Crystal River Unit 3 regulatory asset debt return ending in June 2016 upon securitization.

Income Tax Expense. The variance was primarily due to a decrease in pretax income and the impact of the Tax Act. The effective tax rates for the years ended December 31, 2017, and 2016 were 29.7 percent and 35.5 percent, respectively. The decrease in the effective tax rate was primarily due to the impact of the Tax Act. See the Tax Act section above for additional information.

Matters Impacting Future Electric Utilities and Infrastructure Results

On May 18, 2016, the NCDEQ issued proposed risk classifications for all coal ash surface impoundments in North Carolina. All ash impoundments not previously designated as high priority by the Coal Ash Act were designated as intermediate risk. Certain impoundments classified as intermediate risk, however, were eligible for reassessment as low risk pursuant to legislation enacted on July 14, 2016. On November 14, 2018, NCDEQ issued final low-risk classifications for these impoundments, indicating that Duke Energy Carolinas and Duke Energy Progress have satisfied the permanent replacement water supply and certain dam improvement requirements set out in the Coal Ash Management Act. As the final closure plans and corrective action measures are developed and approved for each site, the closure work progresses and the closure method scope and remedial action methods are determined, the complexity of work and the amount of coal combustion material could be different than originally estimated and, therefore, could materially impact Electric Utilities and Infrastructure's results of operations, financial position and cash flows. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information.

Duke Energy is a party to multiple lawsuits and could be subject to fines and other penalties related to operations at certain North Carolina facilities with ash basins. In addition, the orders issued in the Duke Energy Carolinas and Duke Energy Progress North Carolinas rate cases supporting recovery of past coal ash remediation costs have been appealed by various parties. The outcome of these appeals, lawsuits and potential fines and penalties could have an adverse impact on Electric Utilities and Infrastructure's results of operations, financial position, and cash flows. See Notes 4 and 5 to the Consolidated Financial Statements, "Regulatory Matters" and "Commitments and Contingencies," respectively, for additional information.

On June 22, 2018, Duke Energy Carolinas received an order from the NCUC, which denied the Grid Rider Stipulation and deferral treatment of grid improvement costs. Duke Energy Carolinas may petition for deferral of grid modernization costs outside of a general rate case proceeding if it can show financial hardship or a stipulation that includes greater consensus among intervening parties on costs being classified as grid modernization. While Duke Energy Progress did not request recovery of these costs in its most recent case with the NCUC, Duke Energy Progress may request recovery of certain grid modernization costs in future regulatory proceedings. Electric Utilities and Infrastructure's results of operations, financial position and cash flows could be adversely impacted if grid modernization costs are not ultimately approved for recovery and/or deferral treatment. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

During the last half of 2018, Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida's service territories were impacted by several named storms. Hurricane Florence, Hurricane Michael and Winter Storm Diego caused flooding, extensive damage and widespread power outages to the service territories of Duke Energy Carolinas and Duke Energy Progress. Duke Energy Florida's service territory was also impacted by Hurricane Michael, a Category 4 hurricane and the most powerful storm to hit the Florida Panhandle in recorded history. A significant portion of the incremental operation and maintenance expenses related to these storms have been deferred. On December 21, 2018, Duke Energy Carolinas and Duke Energy Progress filed with the NCUC petitions for approval to defer the incremental storm costs incurred to a regulatory asset for recovery in the next base rate case. Duke Energy Progress filed a similar request with the PSCSC on January 11, 2019, which also included a request for the continuation of prior deferrals requested for other storms, and on January 30, 2019, the PSCSC issued a directive approving the deferral request. Duke Energy Florida anticipates filing a petition in the first half of 2019 with the FPSC to recover incremental storm costs consistent with the provisions in its 2017 Settlement. An order from regulatory authorities disallowing the deferral and future recovery of storm restoration costs could have an adverse impact on Electric Utilities and Infrastructure's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Appeals of recently approved rate cases for Duke Energy Carolinas and Duke Energy Progress are pending at the North Carolina Supreme Court. The North Carolina Attorney General and various intervenors primarily dispute the allowance of recovery of coal ash costs from customers, which was approved by the NCUC. The outcome of these appeals could have an adverse impact to Electric Utilities and Infrastructure's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On February 6, 2018, the FPSC approved a stipulation that would apply tax savings resulting from the Tax Act toward storm costs effective January 2018 in lieu of implementing a storm surcharge. On May 31, 2018, Duke Energy Florida filed for recovery of the storm costs. Storm costs are currently expected to be fully recovered by approximately mid-2021. The commission has scheduled the hearing to begin on May 21, 2019. An order disallowing recovery of these costs could have an adverse impact on Electric Utilities and Infrastructure's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

MD&A

SEGMENT RESULTS - GAS UTILITIES AND INFRASTRUCTURE

Gas Utilities and Infrastructure

(in millions)	Years Ended December 31,				
	2018	2017	Variance 2018 vs. 2017	2016	Variance 2017 vs. 2016
Operating Revenues	\$ 1,881	\$ 1,836	\$ 45	\$ 901	\$ 935
Operating Expenses					
Cost of natural gas	697	632	65	265	367
Operation, maintenance and other	421	383	38	184	199
Depreciation and amortization	245	231	14	115	116
Property and other taxes	107	106	1	70	36
Total operating expenses	1,470	1,352	118	634	718
(Loss) Gains on Sales of Other Assets and Other, net	—	—	—	(1)	1
Operating Income	411	484	(73)	266	218
Other Income and Expenses, net	47	56	(9)	22	34
Interest Expense	106	105	1	46	59
Income Before Income Taxes	352	435	(83)	242	193
Income Tax Expense	78	116	(38)	90	26
Segment Income	\$ 274	\$ 319	\$ (45)	\$ 152	\$ 167
Piedmont LDC throughput (dekatherms) ^(a)	557,145,128	468,259,777	88,885,351	120,908,508	347,351,269
Duke Energy Midwest LDC throughput (MCF)	90,604,833	80,934,836	9,669,997	81,870,489	(935,653)

(a) Includes throughput subsequent to Duke Energy's acquisition of Piedmont on October 3, 2016.

Year Ended December 31, 2018, as compared to 2017

Gas Utilities and Infrastructure's results were primarily impacted by the OTTI recorded on the Constitution investment and higher operation, maintenance and other expenses, partially offset by favorable price adjustments, customer growth and other income. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The variance was driven primarily by:

- a \$76 million increase primarily due to higher natural gas costs passed through to customers as a result of higher volumes sold driven primarily by weather and higher natural gas prices; and
- a \$37 million increase primarily due to residential and commercial customer revenue, net of natural gas costs passed through to customers, due to customer growth and IMR rate adjustments and new power generation customers.

Partially offset by:

- a \$69 million decrease primarily due to revenues subject to refund to customers associated with the lower statutory corporate tax rate under the Tax Act.

Operating Expenses. The variance was driven primarily by:

- a \$65 million increase in natural gas costs primarily due to higher costs passed through to customers, as a result of a higher natural gas prices;
- a \$38 million increase in operations, maintenance, and other expense primarily due to increased shared services, costs to achieve merger expenses and a pension settlement charge at Piedmont in 2017; and
- a \$14 million increase in depreciation and amortization expense due to additional plant in service and higher amortization of software costs.

Other Income and Expenses, net. The variance was driven primarily by:

- a \$55 million impairment recorded for the investment in Constitution in 2018.

Partially offset by:

- a \$25 million increase in non-service components of employee benefit costs in 2018. For additional information on employee benefit costs, see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans"; and

- a \$20 million increase in equity earnings from pipeline investments.

Income Tax Expense. The variance was primarily due to the lower statutory federal corporate tax rate under the Tax Act, a decrease in pretax income and the impact of the Tax Act in the prior year. The ETRs for the years ended December 31, 2018, and 2017 were 22.2 percent and 26.7 percent, respectively. The decrease in the ETR was primarily due to the lower statutory federal corporate tax rate under the Tax Act partially offset by the impact of the Tax Act in the prior year. See the Tax Act section above for additional information.

Year Ended December 31, 2017, as compared to 2016

Gas Utilities and Infrastructure's higher results were primarily due to the inclusion of Piedmont's earnings in the current year as a result of Duke Energy's acquisition of Piedmont on October 3, 2016, as well as additional equity earnings from investments in the ACP and Sabal Trail pipelines.

Operating Revenues. The variance was driven primarily by:

- an \$884 million increase in operating revenues due to the inclusion of Piedmont's operating revenues beginning in October 2016; and
- a \$47 million increase in Piedmont's fourth quarter results due to colder weather, higher natural gas prices, IMR rate adjustments, customer growth and new power generation customers.

Operating Expenses. The variance was driven primarily by:

- a \$686 million increase in operating expenses due to the inclusion of Piedmont's operating expenses beginning in October 2016; and
- a \$34 million increase in Piedmont's fourth quarter results primarily due to higher natural gas costs passed through to customers due to the higher price per dekatherm of natural gas.

Other Income and Expenses, net. The increase was driven primarily by higher equity earnings from pipeline investments.

Interest Expense. The variance was primarily due to the inclusion of Piedmont's interest expense beginning in October 2016.

Income Tax Expense. The variance was primarily due to an increase in pretax income due to the inclusion of Piedmont's earnings beginning in October 2016, partially offset by prior period true ups. The effective tax rates for the years ended December 31, 2017, and 2016 were 26.7 percent and 37.2 percent, respectively. The decrease in the effective tax rate was primarily due to the prior period true ups and the impact of the Tax Act. See the Tax Act section above for additional information.

Matters Impacting Future Gas Utilities and Infrastructure Results

Gas Utilities and Infrastructure has a 47 percent ownership interest in ACP, which is building an approximately 600-mile interstate natural gas pipeline intended to transport diverse natural gas supplies into southeastern markets. Affected states (West Virginia, Virginia and North Carolina) have issued certain necessary permits; the project remains subject to other pending federal and state approvals, which will allow full construction activities to begin. In 2018, FERC issued a series of Notices to Proceed, which authorized the project to begin certain construction-related activities along the pipeline route. Project cost estimates are a range of \$7.0 billion to \$7.8 billion, excluding financing costs. ACP expects to achieve a late 2020 in-service date for key segments of the project, while it expects a remainder to extend into 2021. Project construction activities, schedule and final costs are subject to uncertainty due to abnormal weather, work delays (including delays due to judicial or regulatory action) and other conditions and risks that could result in potential higher project costs, a potential delay in the targeted in-service dates and potential impairment charges. ACP and Duke Energy will continue to consider their options with respect to the foregoing in light of their existing contractual and legal obligations. See Notes 4 and 12 to the Consolidated Financial Statements, "Regulatory Matters" and "Investments in Unconsolidated Affiliates," respectively, for additional information.

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

MD&A

SEGMENT RESULTS - COMMERCIAL RENEWABLES

Commercial Renewables

(in millions)	Years Ended December 31,				
	2018	2017	Variance 2018 vs. 2017	2016	Variance 2017 vs. 2016
Operating Revenues	\$ 477	\$ 460	\$ 17	\$ 484	\$ (24)
Operating Expenses					
Operation, maintenance and other	304	267	37	337	(70)
Depreciation and amortization	155	155	—	130	25
Property and other taxes	25	33	(8)	25	8
Impairment charges	93	99	(6)	—	99
Total operating expenses	577	554	23	492	62
(Loss) Gains on Sales of Other Assets and Other, net	(1)	1	(2)	5	(4)
Operating Loss	(101)	(93)	(8)	(3)	(90)
Other Income and Expenses, net	23	(12)	35	(83)	71
Interest Expense	88	87	1	53	34
Loss Before Income Taxes	(166)	(192)	26	(139)	(53)
Income Tax Benefit	(147)	(628)	481	(160)	(468)
Less: Loss Attributable to Noncontrolling Interests	(28)	(5)	(23)	(2)	(3)
Segment Income	\$ 9	\$ 441	\$ (432)	\$ 23	\$ 418
Renewable plant production, GWh	8,522	8,260	262	7,446	814
Net proportional MW capacity in operation ^(a)	2,991	2,907	84	2,892	15

(a) Certain projects are included in tax-equity structures where investors have differing interests in the project's economic attributes. In 2018, 100 percent of the tax-equity project's capacity is included in the table above.

Year Ended December 31, 2018, as compared to 2017

Commercial Renewables' results were unfavorably impacted by the higher tax benefit in 2017 from the Tax Act. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The increase in revenues was primarily due to an increase in the number of EPC agreements at REC Solar, partially offset by unfavorable wind portfolio revenue.

Operating Expenses. The increase in operating expenses was primarily due to an increase in the number of EPC agreements at REC Solar, higher wind portfolio expenses and higher solar development costs, partially offset by lower property taxes due to non-recurring property tax payments made in the prior year and lower impairment charges.

Other Income and Expenses, net. The favorable variance in other income and expenses was primarily due to the bankruptcy court approved NAW and FES settlement agreement, which allowed retention of previously collected cash collateral under the PPAs, sale of the FES unsecured claim, impairment of certain cost investments in the prior year and lower equity losses in the current year.

Income Tax Benefit. The decrease in tax benefit in 2018 was primarily due to the one-time impact of the Tax Act in 2017 and lower statutory federal corporate tax rate under the Tax Act. See the Tax Act section above for additional information.

Loss Attributable to Noncontrolling Interests. The increase is primarily driven by the new tax-equity structures entered into during 2018.

Year Ended December 31, 2017, as compared to 2016

Commercial Renewables' higher earnings were primarily due to the Tax Act, partially offset by pretax impairment charges. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The decrease was primarily due to lower EPC revenues from REC Solar.

Operating Expenses. The increase was primarily due to a \$99 million in pretax impairment charges in 2017 related to a wholly owned non-contracted wind project and other investments and higher expenses associated with new wind and solar projects, partially offset by lower operations and maintenance expense at REC Solar due to fewer projects under construction. See Notes 10 and 11 to the Consolidated Financial Statements, "Property, Plant and Equipment" and "Goodwill and Intangible Assets," respectively, for additional information.

Other Income and Expenses, net. The variance was primarily due to a \$71 million pretax impairment charge in 2016 related to certain equity method investments. For additional information, see Note 12 to the Consolidated Financial Statements, "Investments in Unconsolidated Affiliates."

MD&A

SEGMENT RESULTS - COMMERCIAL RENEWABLES

Interest Expense. The variance was primarily due to new project financings and less capitalized interest due to fewer projects under construction.

Income Tax Benefit. The variance was primarily due to the impact of the Tax Act and higher PTCs, partially offset by lower ITCs. See the Tax Act section above for additional information on the Tax Act and the impact on the effective tax rate.

Matters Impacting Future Commercial Renewables Results

Persistently low market pricing for wind resources, primarily in the Electric Reliability Council of Texas West and PJM West markets and the future expiration of tax incentives including ITCs and PTCs could result in adverse impacts to the future results of operations, financial position and cash flows of Commercial Renewables.

On September 26, 2018, Duke Energy announced it is seeking a minority investor for the commercial renewables business. Duke Energy will continue to develop projects, grow its portfolio and manage its renewables assets. Duke Energy Renewable Services, an operations and maintenance business for third-party customers, and REC Solar are not included in the potential transaction. A sale of a minority interest is dependent on a number of factors and cannot be predicted at this time.

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

Other

(in millions)	Years Ended December 31,				
	2018	2017	Variance 2018 vs. 2017	2016	Variance 2017 vs. 2016
Operating Revenues	\$ 89	\$ 138	\$ (49)	\$ 117	\$ 21
Operating Expenses					
Fuel used in electric generation and purchased power	—	58	(58)	51	7
Operation, maintenance and other	214	46	168	371	(325)
Depreciation and amortization	152	131	21	152	(21)
Property and other taxes	14	14	—	28	(14)
Impairment charges	—	7	(7)	2	5
Total operating expenses	380	256	124	604	(348)
(Losses) Gains on Sales of Other Assets and Other, net	(96)	21	(117)	23	(2)
Operating Loss	(387)	(97)	(290)	(464)	367
Other Income and Expenses, net	73	129	(56)	75	54
Interest Expense	657	574	83	693	(119)
Loss Before Income Taxes	(971)	(542)	(429)	(1,082)	540
Income Tax (Benefit) Expense	(282)	353	(635)	(446)	799
Less: Net Income Attributable to Noncontrolling Interests	5	10	(5)	9	1
Net Loss	\$ (694)	\$ (905)	\$ 211	\$ (645)	\$ (260)

Year Ended December 31, 2018, as compared to 2017

Other's lower net loss was driven by prior year impacts from the Tax Act, partially offset by severance charges, loss on the sale of the retired Beckjord station, higher interest expense and prior year proceeds resulting from the settlement of the shareholder litigation related to the Progress Energy merger. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The decrease was primarily due to prior year revenues related to Duke Energy Ohio's entitlement of capacity and energy from OVEC's power plants. For the year ended December 31, 2018, the revenues and related expenses for OVEC are reflected in the Electric Utilities and Infrastructure segment due to the PUCO Order that approved Duke Energy to recover or credit amounts through Rider PSR. These amounts are deemed immaterial. Therefore, no prior period amounts were restated. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters" for additional information.

Operating Expenses. The increase was primarily due to severance charges related to a corporate initiative partially offset by prior year fuel expense related to OVEC, which is reflected in the Electric Utilities and Infrastructure segment for year ended December 31, 2018. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters" for additional information.

(Losses) Gains on Sales of Other Assets and Other, net. The variance was driven by the loss on sale of the retired Beckjord station, a nonregulated facility retired during 2014, including the transfer of coal ash basins and other real property and indemnification from all potential future claims related to the property, whether arising under environmental laws or otherwise.

Other Income and Expenses, net. The variance was primarily due to insurance proceeds received in the prior year resulting from settlement of the shareholder litigation related to the Progress Energy merger and lower returns on investments that fund certain employee benefit obligations.

Interest Expense. The increase was primarily due to an increase in long-term debt as well as higher interest rates on short-term debt.

Income Tax (Benefit) Expense. The variance was primarily due to the prior year impact of the Tax Act and an increase in pretax loss. See the Tax Act section above for additional information on the Tax Act and the impact on the effective tax rate.

Year Ended December 31, 2017, as compared to 2016

Other's higher net loss was driven by the Tax Act, partially offset by prior year losses on forward-starting interest rate swaps and other costs related to the Piedmont acquisition, decreased severance charges, donations to the Duke Energy Foundation in 2016 and insurance proceeds resulting from settlement of the shareholder litigation related to the Progress Energy merger. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The increase was primarily due to higher OVEC revenues and prior year customer credits related to Piedmont merger commitments. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information.

Operating Expenses. The decrease was primarily due to lower transaction and integration costs associated with the Piedmont acquisition, prior year severance charges related to cost savings initiatives, donations to the Duke Energy Foundation in 2016 as well as prior year depreciation expense and other integration costs related to the Progress Energy merger. The Duke Energy Foundation is a nonprofit organization funded by Duke Energy shareholders that makes charitable contributions to selected nonprofits and government subdivisions.

Other Income and Expenses, net. The increase was primarily driven by insurance proceeds resulting from settlement of the shareholder litigation related to the Progress Energy merger, higher earnings from the equity method investment in NMC and increased returns on investments that fund certain employee benefit obligations.

Interest Expense. The decrease was primarily due to prior year losses on forward-starting interest rate swaps related to Piedmont pre-acquisition financing, partially offset by higher interest costs on \$3.75 billion of debt issued in August 2016 to fund the acquisition. For additional information see Notes 2, 6 and 14 to the Consolidated Financial Statements, "Acquisitions and Dispositions," "Debt and Credit Facilities" and "Derivatives and Hedging," respectively.

Income Tax Benefit. The variance was primarily due to the impact of the Tax Act and a decrease in pretax loss. See the Tax Act section above for additional information on the Tax Act and the impact on the effective tax rate.

Matters Impacting Future Other Results

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

INCOME (LOSS) FROM DISCONTINUED OPERATIONS, NET OF TAX

(in millions)	Years Ended December 31,				
			Variance	Variance	
	2018	2017	2018 vs. 2017	2016	2017 vs. 2016
Income (Loss) From Discontinued Operations, net of tax	\$ 19	\$ (6)	\$ 25	\$ (408)	\$ 402

Year Ended December 31, 2018, as compared to 2017

The variance was primarily driven by tax adjustments related to the International Disposal Groups. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information.

Year Ended December 31, 2017, as compared to 2016

The variance was primarily driven by the prior year loss on the disposal of Duke Energy's Latin American generation business and an impairment charge related to certain assets in Central America, partially offset by a tax benefit related to historic unremitted foreign earnings and immaterial out of period tax adjustments unrelated to the International Disposal Group. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information.

SUBSIDIARY REGISTRANTS

As a result of the Tax Act, the Subsidiary Registrants revalued their deferred tax assets and deferred tax liabilities, as of December 31, 2017, to account for the estimated future impact of lower corporate tax rates on these deferred tax amounts. During the year ended December 31, 2018, the Subsidiary Registrants recorded measurement period adjustments to the provisional estimate recorded as of December 31, 2017, in accordance with SAB 118. For the Subsidiary Registrants' regulated operations, where the net reduction in the net accumulated deferred income tax liability is expected to be returned to customers in future rates, the remeasurement has been deferred as a regulatory liability. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters" for additional information on the Tax Act's impact to the regulatory asset and liability accounts. The change in each Subsidiary Registrant's effective tax rate for the year ended December 31, 2018, was primarily due to the impact of the Tax Act, unless noted below. The following table shows the expense (benefit) recorded on the Subsidiary Registrant's Consolidated Statements of Operations and Comprehensive Income, and the effective tax rate for each Subsidiary Registrant.

(in millions)	Impacts of the Tax Act ^{(a)(b)}		Effective Tax Rate	
	Years Ended December 31,		Years Ended December 31,	
	2018	2017	2018	2017
Duke Energy Carolinas	\$ 1	\$ 15	22.1%	34.9%
Progress Energy	25	(246) ^(c)	17.4%	17.2%
Duke Energy Progress	19	(40) ^(d)	19.3%	29.0%
Duke Energy Florida	—	(226) ^(c)	15.4%	6.1%
Duke Energy Ohio	2	(23) ^(e)	19.6%	23.4%
Duke Energy Indiana	—	55 ^(f)	24.6%	46.0%
Piedmont	—	(2) ^{(d)(g)}	22.3%	30.8%

- (a) Except where noted below, amounts are included within Income Tax Expense From Continuing Operations or Income Tax Expense on the Consolidated Statements of Operations and Comprehensive Income.
- (b) See Notes 4 and 23 to the Consolidated Financial Statements, "Regulatory Matters" and "Income Taxes," respectively, for information about the Tax Act's impact on Duke Energy's Consolidated Balance Sheets.
- (c) 2017 amount primarily relates to the remeasurement of deferred tax liabilities that are excluded for ratemaking purposes related to abandoned assets and certain wholesale fixed rate contracts.
- (d) 2017 amount primarily relates to the remeasurement of deferred tax liabilities of certain wholesale fixed rate contracts.
- (e) 2017 amount primarily relates to the remeasurement of deferred tax assets that are excluded for ratemaking purposes related to a prior transfer of certain electric generating assets.
- (f) 2017 amount primarily relates to the remeasurement of deferred tax liabilities that are excluded for ratemaking purposes related to impaired assets.
- (g) 2017 amount includes a \$16 million expense recorded within Equity in earnings (losses) of unconsolidated affiliates on the Consolidated Statements of Operations and Comprehensive Income.

DUKE ENERGY CAROLINAS

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2018, 2017 and 2016.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Carolinas is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2018	2017	Variance
Operating Revenues	\$ 7,300	\$ 7,302	\$ (2)
Operating Expenses			
Fuel used in electric generation and purchased power	1,821	1,822	(1)
Operation, maintenance and other	2,130	2,021	109
Depreciation and amortization	1,201	1,090	111
Property and other taxes	295	281	14
Impairment charges	192	—	192
Total operating expenses	5,639	5,214	425
(Losses) Gains on Sales of Other Assets and Other, net	(1)	1	(2)
Operating Income	1,660	2,089	(429)
Other Income and Expenses, net	153	199	(46)
Interest Expense	439	422	17
Income Before Income Taxes	1,374	1,866	(492)
Income Tax Expense	303	652	(349)
Net Income	\$ 1,071	\$ 1,214	\$ (143)

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Carolinas. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2018	2017
Residential sales	11.7 %	(4.8)%
General service sales	4.5 %	(1.8)%
Industrial sales	(0.3)%	(0.8)%
Wholesale power sales	12.5 %	6.3 %
Joint dispatch sales	23.1 %	18.2 %
Total sales	5.7 %	(1.4)%
Average number of customers	1.5 %	1.5 %

Year Ended December 31, 2018, as compared to 2017

Operating Revenues. The variance was driven primarily by:

- a \$263 million decrease in retail sales due to revenues subject to refund to customers associated with the lower statutory federal corporate tax rate under the Tax Act;
- a \$68 million decrease in retail rider revenues primarily related to the implementation of new base rates; and
- an \$8 million decrease in wholesale power revenues, net of sharing and fuel, primarily due to wholesale customer refunds in the current year related to a FERC order on a complaint filed by PMPA, partially offset by higher revenues related to recovery of coal ash costs.

Partially offset by:

- a \$169 million increase in retail sales, net of fuel revenues, due to favorable weather in the current year;
- an \$83 million increase in retail pricing from impacts of the North Carolina rate case;
- a \$49 million increase in other revenues primarily due to the recognition of previously deferred revenues associated with storm restoration costs in South Carolina and favorable transmission revenues; and
- a \$36 million increase in weather-normal retail sales volumes.

Operating Expenses. The variance was driven primarily by:

- a \$192 million increase in impairment charges primarily due to the impacts of the North Carolina rate order and charges related to coal ash costs in South Carolina;
- a \$111 million increase in depreciation and amortization expense primarily due to additional plant in service, new depreciation rates associated with the North Carolina rate case and higher amortization of deferred coal ash costs, partially offset by lower amortization of certain regulatory assets; and

- a \$109 million increase in operations, maintenance and other expense primarily due to severance charges.

Other Income and Expenses, net. The variance was primarily due to lower AFUDC equity related to the Lee Nuclear Project and W.S. Lee CC and a decrease in recognition of post in-service equity returns for projects that had been completed prior to being reflected in customer rates.

Interest Expense. The variance was primarily due to higher debt outstanding in the current year.

Income Tax Expense. The variance was primarily due to the lower statutory federal corporate tax rate under the Tax Act. The ETRs for the years ended December 31, 2018, and 2017 were 22.1 percent and 34.9 percent, respectively. The decrease in the ETR was primarily due to the lower statutory federal corporate tax rate under the Tax Act and the amortization of state excess deferred taxes.

Matters Impacting Future Results

On May 18, 2016, the NCDEQ issued proposed risk classifications for all coal ash surface impoundments in North Carolina. All ash impoundments not previously designated as high priority by the Coal Ash Act were designated as intermediate risk. Certain impoundments classified as intermediate risk, however, were eligible for reassessment as low-risk pursuant to legislation enacted on July 14, 2016. On November 14, 2018, NCDEQ issued final low risk classifications for these impoundments, indicating that Duke Energy Carolinas had satisfied the permanent replacement water supply and certain dam improvement requirements set out in the Coal Ash Management Act. As the final closure plans and corrective action measures are developed and approved for each site, the closure work progresses, and the closure method scope and remedial action methods are determined, the complexity of work and the amount of coal combustion material could be different than originally estimated and, therefore, could materially impact Duke Energy Carolinas' results of operations, financial position and cash flows. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information.

Duke Energy Carolinas is a party to multiple lawsuits and subject to fines and other penalties related to operations at certain North Carolina facilities with ash basins. In addition, the order issued in the Duke Energy Carolinas North Carolinas rate case supporting recovery of past coal ash remediation costs has been appealed by various parties. The outcome of these appeals, lawsuits, fines and penalties could have an adverse impact on Duke Energy Carolinas' results of operations, financial position and cash flows. See Notes 4 and 5 to the Consolidated Financial Statements, "Regulatory Matters" and "Commitments and Contingencies," respectively, for additional information.

On June 22, 2018, Duke Energy Carolinas received an order from the NCUC, which denied the Grid Rider Stipulation and deferral treatment of grid improvement costs. Duke Energy Carolinas may petition for deferral of grid modernization costs outside of a general rate case proceeding if it can show financial hardship or a stipulation that includes greater consensus among intervening parties on costs being classified as grid modernization. Duke Energy Carolinas' results of operations, financial position and cash flows could be adversely impacted if grid modernization costs are not ultimately approved for recovery and/or deferral treatment. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

During the last half of 2018, Duke Energy Carolinas' service territory was impacted by several named storms. Hurricane Florence, Hurricane Michael and Winter Storm Diego caused flooding, extensive damage and widespread power outages in the service territory. A significant portion of the incremental operation and maintenance expenses related to these storms have been deferred. On December 21, 2018, Duke Energy Carolinas filed with the NCUC a petition for approval to defer the incremental storm costs incurred to a regulatory asset for recovery in the next base rate case. An order from regulatory authorities disallowing the deferral and future recovery of storm restoration costs could have an adverse impact on Duke Energy Carolinas' results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Appeals of the recently approved rate case for Duke Energy Carolinas are pending at the North Carolina Supreme Court. The North Carolina Attorney General and various intervenors primarily dispute the allowance of recovery of coal ash costs from customers, which was approved by the NCUC. The outcome of these appeals could have an adverse impact to Duke Energy Carolina's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

PROGRESS ENERGY

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2018, 2017 and 2016.

Basis of Presentation

The results of operations and variance discussion for Progress Energy is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2018	2017	Variance
Operating Revenues	\$ 10,728	\$ 9,783	\$ 945
Operating Expenses			
Fuel used in electric generation and purchased power	3,976	3,417	559
Operation, maintenance and other	2,613	2,301	312
Depreciation and amortization	1,619	1,285	334
Property and other taxes	529	503	26
Impairment charges	87	156	(69)
Total operating expenses	8,824	7,662	1,162
Gains on Sales of Other Assets and Other, net	24	26	(2)
Operating Income	1,928	2,147	(219)
Other Income and Expenses, net	165	209	(44)
Interest Expense	842	824	18
Income Before Income Taxes	1,251	1,532	(281)
Income Tax Expense	218	264	(46)
Net Income	1,033	1,268	(235)
Less: Net Income Attributable to Noncontrolling Interests	6	10	(4)
Net Income Attributable to Parent	\$ 1,027	\$ 1,258	\$ (231)

Year Ended December 31, 2018, as compared to 2017

Operating Revenues. The variance was driven primarily by:

- a \$614 million increase in fuel and capacity revenues primarily due to an increase in fuel and capacity rates billed to retail customers and increased demand;
- a \$149 million increase in retail pricing due to the impacts of the Duke Energy Progress North Carolina and South Carolina rate cases and Duke Energy Florida base rate adjustments related to generation assets being placed into service;
- a \$108 million increase in retail sales due to favorable weather in the current year, net of lost revenue impacts associated with Hurricane Irma in 2017 and Hurricane Florence in 2018;
- a \$96 million increase in wholesale power revenues, net of fuel, primarily due to recovery of coal ash costs and higher peak demand at Duke Energy Progress;
- a \$34 million net increase in retail rider revenues in conjunction with the implementation of new base rates at Duke Energy Progress; and
- a \$47 million increase in weather-normal retail sales volumes.

Partially offset by:

- a \$119 million decrease in retail sales due to revenues subject to refund to customers associated with the lower statutory federal corporate tax rate under the Tax Act at Duke Energy Progress.

Operating Expenses. The variance was driven primarily by:

- a \$559 million increase in fuel used in electric generation and purchased power primarily due to higher amortization of deferred fuel and capacity expenses, increased demand and changes in generation mix;
- a \$334 million increase in depreciation and amortization expense primarily due to higher amortization of deferred coal ash costs and new depreciation rates associated with the North Carolina rate case at Duke Energy Progress, and accelerated depreciation of Crystal River Units 4 and 5 at Duke Energy Florida;
- a \$312 million increase in operation, maintenance and other expense primarily due to higher costs related to storms, vegetation management costs and severance charges; and
- a \$26 million increase in property and other taxes primarily due to higher revenue related taxes at Duke Energy Florida.

Partially offset by:

- a \$69 million decrease in impairment charges primarily due to the write-off of remaining unrecovered Levy Nuclear Project costs in the prior year, offset by the current year impairment of the Citrus County CC at Duke Energy Florida and the impacts associated with the North Carolina rate case at Duke Energy Progress.

Other Income and Expenses, net. The variance was primarily due to lower income from non-service components of employee benefit costs in the current year at Duke Energy Progress and Duke Energy Florida. For additional information on employee benefit costs, see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans."

Interest Expense. The variance was primarily due to new debt issuances at Duke Energy Progress.

Income Tax Expense. The variance was primarily due to the lower statutory federal corporate tax rate under the Tax Act partially offset by the favorable impact of the Tax Act in the prior year. The effective tax rate for the years ended December 31, 2018, and 2017 were 17.4 percent and 17.2 percent, respectively. The change in the effective tax rate was primarily due to the favorable impact of the Tax Act in the prior year mostly offset by the lower statutory federal corporate tax rate under the Tax Act and the amortization of federal and state excess deferred taxes in the current year.

Matters Impacting Future Results

On May 18, 2016, the NCDEQ issued proposed risk classifications for all coal ash surface impoundments in North Carolina. All ash impoundments not previously designated as high priority by the Coal Ash Act were designated as intermediate risk. Certain impoundments classified as intermediate risk, however, were eligible for reassessment as low-risk pursuant to legislation enacted on July 14, 2016. On November 14, 2018, NCDEQ issued final low risk classifications for these impoundments, indicating that Progress Energy had satisfied the permanent replacement water supply and certain dam improvement requirements set out in the Coal Ash Management Act. As the final closure plans and corrective action measures are developed and approved for each site, the closure work progresses, and the closure method scope and remedial action methods are determined, the complexity of work and the amount of coal combustion material could be different than originally estimated and, therefore, could materially impact Progress Energy's results of operations, financial position and cash flows. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information.

Duke Energy Progress is a party to multiple lawsuits and subject to fines and other penalties related to operations at certain North Carolina facilities with ash basins. As noted above, the order issued in the Duke Energy Progress North Carolinas rate case supporting recovery of past coal ash remediation costs has been appealed by various parties. The outcome of these appeals, lawsuits, fines and penalties could have an adverse impact on Progress Energy's results of operations, financial position and cash flows. See Notes 4 and 5 to the Consolidated Financial Statements, "Regulatory Matters" and "Commitments and Contingencies," respectively, for additional information.

Duke Energy Carolinas received an order from the NCUC, which denied the Grid Rider Stipulation and deferral treatment of grid improvement costs. The NCUC did allow Duke Energy Carolinas to petition for deferral of grid modernization costs outside of a general rate case proceeding if it can show financial hardship or a stipulation that includes greater consensus among intervening parties on costs being classified as grid modernization. While Duke Energy Progress did not request recovery of these costs in its most recent case with the NCUC, Duke Energy Progress may request recovery of certain grid modernization costs in future regulatory proceedings. If the NCUC were to rule similarly, Progress Energy's results of operations, financial position and cash flows could be adversely impacted if grid modernization costs are not ultimately approved for recovery and/or deferral treatment. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

During the last half of 2018, Duke Energy Progress and Duke Energy Florida's service territories were impacted by several named storms. Hurricane Florence, Hurricane Michael and Winter Storm Diego caused flooding, extensive damage and widespread power outages to the service territory of Duke Energy Progress. Duke Energy Florida's service territory was also impacted by Hurricane Michael, a Category 4 hurricane and the most powerful storm to hit the Florida Panhandle in recorded history. A significant portion of the incremental operation and maintenance expenses related to these storms have been deferred. On December 21, 2018, Duke Energy Progress filed with the NCUC a petition for approval to defer the incremental storm costs incurred to a regulatory asset for recovery in the next base rate case. Duke Energy Progress filed a similar request with the PSCSC on January 11, 2019, which also included a request for the continuation of prior deferrals requested for other storms, and on January 30, 2019, the PSCSC issued a directive approving the deferral request. Duke Energy Florida anticipates filing a petition in the first half of 2019 with the FPSC to recover incremental storm costs consistent with the provisions in its 2017 Settlement. An order from regulatory authorities disallowing the deferral and future recovery of storm restoration costs could have an adverse impact on Progress Energy's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Appeals of the recently approved rate case for Duke Energy Progress are pending at the North Carolina Supreme Court. The North Carolina Attorney General and various intervenors primarily dispute the allowance of recovery of coal ash costs from customers, which was approved by the NCUC. The outcome of these appeals could have an adverse impact to Progress Energy's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On February 6, 2018, the FPSC approved a stipulation that would apply tax savings resulting from the Tax Act toward storm costs effective January 2018 in lieu of implementing a storm surcharge. On May 31, 2018, Duke Energy Florida filed for recovery of the storm costs. Storm costs are currently expected to be fully recovered by approximately mid-2021. The commission has scheduled the hearing to begin on May 21, 2019. An order disallowing recovery of these costs could have an adverse impact on Progress Energy's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

DUKE ENERGY PROGRESS

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2018, 2017 and 2016.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Progress is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2018	2017	Variance
Operating Revenues	\$ 5,699	\$ 5,129	\$ 570
Operating Expenses			
Fuel used in electric generation and purchased power	1,892	1,609	283
Operation, maintenance and other	1,578	1,439	139
Depreciation and amortization	991	725	266
Property and other taxes	155	156	(1)
Impairment charges	33	19	14
Total operating expenses	4,649	3,948	701
Gains on Sales of Other Assets and Other, net	9	4	5
Operating Income	1,059	1,185	(126)
Other Income and Expenses, net	87	115	(28)
Interest Expense	319	293	26
Income Before Income Taxes	827	1,007	(180)
Income Tax Expense	160	292	(132)
Net Income	\$ 667	\$ 715	\$ (48)

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Progress. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2018	2017
Residential sales	9.9%	(2.6)%
General service sales	2.3%	(1.3)%
Industrial sales	0.8%	1.1 %
Wholesale power sales	4.6%	(2.9)%
Joint dispatch sales	2.1%	(17.1)%
Total sales	3.8%	(3.2)%
Average number of customers	1.5%	1.4 %

Year Ended December 31, 2018, as compared to 2017

Operating Revenues. The variance was driven primarily by:

- a \$324 million increase in fuel revenues driven by higher retail sales and changes in generation mix;
- a \$125 million increase in retail pricing due to the impacts from the North Carolina and South Carolina rate cases;
- a \$96 million increase in wholesale power revenues, net of fuel, primarily due to recovery of coal ash costs and higher peak demand;
- a \$34 million net increase in retail rider revenues in conjunction with the implementation of new base rates;
- a \$61 million increase in retail sales due to favorable weather in the current year, net of the impact of lost revenues due to Hurricane Florence; and
- a \$35 million increase in weather-normal retail sales volumes.

Partially offset by:

- a \$119 million decrease in retail sales due to revenues subject to refund to customers associated with the lower statutory federal corporate tax rate under the Tax Act.

Operating Expenses. The variance was driven primarily by:

- a \$283 million increase in fuel used in electric generation and purchased power primarily due to higher retail sales and changes in generation mix;
- a \$266 million increase in depreciation and amortization expense primarily due to higher amortization of deferred coal ash costs and new depreciation rates associated with the North Carolina rate case;
- a \$139 million increase in operation, maintenance and other expense primarily due to higher storm costs, impacts associated with the North Carolina rate case and severance charges; and
- a \$14 million increase in impairment charges associated with the North Carolina rate case.

Other Income and Expenses, net. The variance was primarily driven by lower income from non-service components of employment benefit costs. For additional information on employee benefit costs, see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans."

Interest Expense. The variance was primarily driven by new debt issuances.

Income Tax Expense. The variance was primarily due to the lower statutory federal corporate tax rate under the Tax Act partially offset by the favorable impact of the Tax Act in the prior year. The effective tax rates for the years ended December 31, 2018, and 2017 were 19.3 percent and 29.0 percent, respectively. The decrease in the effective tax rate was primarily due to the lower statutory federal corporate tax rate under the Tax Act and the amortization of state excess deferred taxes partially offset by the impact of the Tax Act in the prior year.

Matters Impacting Future Results

On May 18, 2016, the NCDEQ issued proposed risk classifications for all coal ash surface impoundments in North Carolina. All ash impoundments not previously designated as high priority by the Coal Ash Act were designated as intermediate risk. Certain impoundments classified as intermediate risk, however, were eligible for reassessment as low-risk pursuant to legislation enacted on July 14, 2016. On November 14, 2018, NCDEQ issued final low risk classifications for these impoundments, indicating that Duke Energy Progress had satisfied the permanent replacement water supply and certain dam improvement requirements set out in the Coal Ash Management Act. As the final closure plans and corrective action measures are developed and approved for each site, the closure work progresses, and the closure method scope and remedial action methods are determined, the complexity of work and the amount of coal combustion material could be different than originally estimated and, therefore, could materially impact Duke Energy Progress' results of operations, financial position and cash flows. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information.

Duke Energy Progress is a party to multiple lawsuits and subject to fines and other penalties related to operations at certain North Carolina facilities with ash basins. As noted above, the order issued in the Duke Energy Progress North Carolinas rate case supporting recovery of past coal ash remediation costs has been appealed by various parties. The outcome of these appeals, lawsuits, fines and penalties could have an adverse impact on Duke Energy Progress' results of operations, financial position and cash flows. See Notes 4 and 5 to the Consolidated Financial Statements, "Regulatory Matters" and "Commitments and Contingencies," respectively, for additional information.

Duke Energy Carolinas received an order from the NCUC, which denied the Grid Rider Stipulation and deferral treatment of grid improvement costs. The NCUC did allow Duke Energy Carolinas to petition for deferral of grid modernization costs outside of a general rate case proceeding if it can show financial hardship or a stipulation that includes greater consensus among intervening parties on costs being classified as grid modernization. While Duke Energy Progress did not request recovery of these costs in its most recent case with the NCUC, Duke Energy Progress may request recovery of certain grid modernization costs in future regulatory proceedings. If the NCUC were to rule similarly, Duke Energy Progress' results of operations, financial position and cash flows could be adversely impacted if grid modernization costs are not ultimately approved for recovery and/or deferral treatment. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

During the last half of 2018, Duke Energy Progress' service territory was impacted by several named storms. Hurricane Florence, Hurricane Michael and Winter Storm Diego caused flooding, extensive damage and widespread power outages in the service territory. A significant portion of the incremental operation and maintenance expenses related to these storms have been deferred. On December 21, 2018, Duke Energy Progress filed with the NCUC a petition for approval to defer the incremental storm costs incurred to a regulatory asset for recovery in the next base rate case. Duke Energy Progress filed a similar request with the PSCSC on January 11, 2019, which also included a request for the continuation of prior deferrals requested for other storms, and on January 30, 2019, the PSCSC issued a directive approving the deferral request. An order from regulatory authorities disallowing the deferral and future recovery of storm restoration costs could have an adverse impact on Duke Energy Progress' results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Appeals of the recently approved rate case for Duke Energy Progress are pending at the North Carolina Supreme Court. The North Carolina Attorney General and various intervenors primarily dispute the allowance of recovery of coal ash costs from customers, which was approved by the NCUC. The outcome of these appeals could have an adverse impact to Duke Energy Progress' results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

DUKE ENERGY FLORIDA

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2018, 2017 and 2016.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Florida is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2018	2017	Variance
Operating Revenues	\$ 5,021	\$ 4,646	\$ 375
Operating Expenses			
Fuel used in electric generation and purchased power	2,085	1,808	277
Operation, maintenance and other	1,025	853	172
Depreciation and amortization	628	560	68
Property and other taxes	374	347	27
Impairment charges	54	138	(84)
Total operating expenses	4,166	3,706	460
Gains on Sales of Other Assets and Other, net	1	1	—
Operating Income	856	941	(85)
Other Income and Expenses, net	86	96	(10)
Interest Expense	287	279	8
Income Before Income Taxes	655	758	(103)
Income Tax Expense	101	46	55
Net Income	\$ 554	\$ 712	\$ (158)

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Florida. The below percentages for retail customer classes represent billed sales only. Wholesale power sales include both billed and unbilled sales. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2018	2017
Residential sales	4.3 %	(2.3)%
General service sales	1.9 %	(1.3)%
Industrial sales	(0.4)%	(2.4)%
Wholesale power sales	5.2 %	20.1 %
Total sales	2.4 %	0.5 %
Average number of customers	1.5 %	1.6 %

Year Ended December 31, 2018, as compared to 2017

Operating Revenues. The variance was driven primarily by:

- a \$290 million increase in fuel and capacity revenues primarily due to an increase in fuel and capacity rates billed to retail customers and increased demand;
- a \$47 million increase in retail sales, net of fuel revenues, due to favorable weather in the current year and impacts of lost revenue resulting from Hurricane Irma in the prior year;
- a \$24 million increase in retail pricing due to base rate adjustments related to generation assets being placed into service; and
- a \$12 million increase in weather-normal retail sales volumes.

Operating Expenses. The variance was driven primarily by:

- a \$277 million increase in fuel used in electric generation and purchased power primarily due to higher amortization of deferred fuel and capacity expenses and increased purchased power and demand;
- a \$172 million increase in operation, maintenance and other expense primarily due to higher storm cost amortization, vegetation management costs and severance charges, partially offset by lower storm restoration costs in the current year;

- a \$68 million increase in depreciation and amortization expense primarily due to accelerated depreciation of Crystal River Units 4 and 5 and additional plant in service; and
- a \$27 million increase in property and other taxes primarily due to higher revenue related taxes.

Partially offset by:

- an \$84 million decrease in impairment charges primarily due to the write-off of remaining unrecovered Levy Nuclear Project costs in the prior year, offset by the current year impairment of the Citrus County CC.

Other Income and Expenses, net. The variance was driven primarily by lower income from non-service components of employee benefit costs in the current year. For additional information on employee benefit costs, see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans."

Income Tax Expense. The variance was primarily due to the favorable impact of the Tax Act in the prior year partially offset by the lower statutory federal corporate tax rate under the Tax Act in the current year. The effective tax rates for the years ended December 31, 2018, and 2017 were 15.4 percent and 6.1 percent, respectively. The increase in the effective tax rate was primarily due to the favorable impact of the Tax Act in the prior year partially offset by the lower statutory federal corporate tax rate under the Tax Act and the amortization of federal excess deferred taxes in the current year.

Matters Impacting Future Results

On October 10, 2018, Hurricane Michael made landfall on Florida's Panhandle as a Category 4 hurricane, the most powerful storm to hit the Florida Panhandle in recorded history. The storm caused significant damage within the service territory of Duke Energy Florida, particularly from Panama City Beach to Mexico Beach. Duke Energy Florida has not completed the final accumulation of total estimated storm restoration costs incurred. Given the magnitude of the storm, Duke Energy Florida anticipates filing a petition in the first half of 2019 with the FPSC to recover incremental storm costs consistent with the provisions in its 2017 Settlement. An order from regulatory authorities disallowing the future recovery of storm restoration costs could have an adverse impact on Duke Energy Florida's financial position, results of operations and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On February 6, 2018, the FPSC approved a stipulation that would apply tax savings resulting from the Tax Act toward storm costs effective January 2018 in lieu of implementing a storm surcharge. On May 31, 2018, Duke Energy Florida filed for recovery of the storm costs. Storm costs are currently expected to be fully recovered by approximately mid-2021. The commission has scheduled the hearing to begin on May 21, 2019. An order disallowing recovery of these costs could have an adverse impact on Duke Energy Florida's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

DUKE ENERGY OHIO

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2018, 2017 and 2016.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Ohio is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2018	2017	Variance
Operating Revenues			
Regulated electric	\$ 1,450	\$ 1,373	\$ 77
Regulated natural gas	506	508	(2)
Nonregulated electric and other	1	42	(41)
Total operating revenues	1,957	1,923	34
Operating Expenses			
Fuel used in electric generation and purchased power – regulated	412	369	43
Fuel used in electric generation and purchased power – nonregulated	—	58	(58)
Cost of natural gas	113	107	6
Operation, maintenance and other	480	530	(50)
Depreciation and amortization	268	261	7
Property and other taxes	290	278	12
Impairment charges	—	1	(1)
Total operating expenses	1,563	1,604	(41)
(Losses) Gains on Sales of Other Assets and Other, net	(106)	1	(107)
Operating Income	288	320	(32)
Other Income and Expenses, net	23	23	—
Interest Expense	92	91	1
Income from Continuing Operations Before Income Taxes	219	252	(33)
Income Tax Expense from Continuing Operations	43	59	(16)
Income from Continuing Operations	176	193	(17)
(Loss) Income from Discontinued Operations, net of tax	—	(1)	1
Net Income	\$ 176	\$ 192	\$ (16)

The following table shows the percent changes in GWh sales of electricity, dekatherms of natural gas delivered and average number of electric and natural gas customers for Duke Energy Ohio. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	Electric		Natural Gas	
	2018	2017	2018	2017
Residential sales	12.2 %	(4.0)%	18.0%	(2.6)%
General service sales	3.3 %	(3.1)%	15.4%	0.7 %
Industrial sales	1.0 %	(2.7)%	8.1%	(2.8)%
Wholesale electric power sales	(46.6)%	65.7 %	n/a	n/a
Other natural gas sales	n/a	n/a	0.7%	(0.3)%
Total sales	2.8 %	(2.1)%	11.9%	(1.1)%
Average number of customers	0.8 %	0.8 %	0.9%	0.7 %

Year Ended December 31, 2018, as compared to 2017

Operating Revenues. In 2018, the revenues and related expenses for OVEC are reflected in regulated electric due to the PUCO Order that approved Duke Energy Ohio to recover or credit amounts, through Rider PSR, that result from wholesale market transactions relating to Duke Energy Ohio's entitlement to capacity and energy from OVEC's power plants. In 2017, the revenues and related expenses for OVEC are reflected in nonregulated electric. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters" for additional information.

The variance was driven primarily by:

- a \$44 million increase in electric and natural gas retail sales, net of fuel revenues, due to favorable weather in the current year;
- a \$17 million increase in rider revenue primarily related to capital investment riders;
- a \$16 million increase in financial transmission rights revenues;
- a \$7 million increase in point-to-point transmission revenues; and
- a \$6 million increase in fuel revenues due to higher natural gas costs.

Partially offset by:

- a \$48 million decrease in regulated revenues due to revenues subject to refund to customers associated with the lower statutory corporate tax rate under the Tax Act; and
- a \$7 million decrease in bulk power marketing sales.

Operating Expenses. The variance was driven by:

- a \$50 million decrease in operations, maintenance and other expense primarily due to the FERC approved settlement refund of certain transmission costs previously billed by PJM; and
- a \$15 million decrease in fuel used in electric generation and purchased power related to the deferral of OVEC purchased power, which is reflected in regulated electric in 2018 and nonregulated electric in 2017, as noted above in the Operating Revenues section.

Partially offset by:

- a \$12 million increase in property and other taxes primarily due to higher property taxes and kilowatt tax;
- a \$7 million increase in depreciation and amortization expense primarily due to additional plant in service and increased amortization of regulatory assets; and
- a \$6 million increase in cost of natural gas primarily due to an increase in natural gas sales volumes.

(Losses) Gains on Sales of Other Assets and Other, net. The decrease was driven by the loss on the sale of Beckjord, a nonregulated facility retired during 2014, including the transfer of coal ash basins and other real property and indemnification from any and all potential future claims related to the property, whether arising under environmental laws or otherwise.

Income Tax Expense. The variance was primarily due to the lower statutory federal corporate tax rate under the Tax Act and a decrease in pretax income. The effective tax rates for the years ended December 31, 2018, and 2017 were 19.6 percent and 23.4 percent, respectively. The decrease in the effective tax rate was primarily due to the lower statutory federal corporate tax rate under the Tax Act partially offset by the impact of the Tax Act in the prior year.

Matters Impacting Future Results

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

DUKE ENERGY INDIANA

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2018, 2017 and 2016.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Indiana is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2018	2017	Variance
Operating Revenues	\$ 3,059	\$ 3,047	\$ 12
Operating Expenses			
Fuel used in electric generation and purchased power	1,000	966	34
Operation, maintenance and other	788	743	45
Depreciation and amortization	520	458	62
Property and other taxes	78	76	2
Impairment charges	30	18	12
Total operating expenses	2,416	2,261	155
Operating Income	643	786	(143)
Other Income and Expenses, net	45	47	(2)
Interest Expense	167	178	(11)
Income Before Income Taxes	521	655	(134)
Income Tax Expense	128	301	(173)
Net Income	\$ 393	\$ 354	\$ 39

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Indiana. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2018	2017
Residential sales	12.5 %	(3.8)%
General service sales	2.8 %	(2.4)%
Industrial sales	0.5 %	0.3 %
Wholesale power sales	(0.9)%	(10.5)%
Total sales	3.3 %	(3.6)%
Average number of customers	1.3 %	0.8 %

Year Ended December 31, 2018, as compared to 2017

Operating Revenues. The variance was driven primarily by:

- a \$65 million increase in rate rider revenues primarily related to the Edwardsport IGCC plant and the TDSIC rider;
- a \$50 million increase in fuel and other revenues primarily due to higher base fuel, non-native fuel and Midwest Independent System Operator rider revenues;
- a \$13 million increase in retail sales, net of fuel revenues, due to favorable weather in the current year; and
- a \$13 million increase in weather-normal retail sales volumes.

Partially offset by:

- a \$105 million decrease due to revenues subject to refund to customers associated with the lower statutory federal corporate tax rate under the Tax Act; and
- a \$27 million decrease in wholesale power revenues, net of fuel, primarily due to contracts that expired in the prior year.

Operating Expenses. The variance was driven primarily by:

- a \$62 million increase in depreciation and amortization expense primarily due to additional plant in service and the deferral of certain asset retirement obligations in the prior year;

- a \$45 million increase in operation, maintenance and other expense primarily due to amortization of previously deferred expenses, and higher transmission, storm and customer related costs;
- a \$34 million increase in fuel used in electric generation and purchased power primarily due to higher natural gas costs; and
- a \$12 million increase in impairment charges primarily due to the reduction of a regulatory asset pertaining to the Edwardsport IGCC settlement agreement in the current year, partially offset by the impairment of certain metering equipment in the prior year.

Interest Expense. The variance was primarily due to lower post in-service carrying costs due to three coal ash projects placed in service in December 2017, partially offset by higher intercompany money pool interest expense, higher AFUDC debt balances and higher floating rate debt interest expense.

Income Tax Expense. The variance was primarily due to the lower statutory federal corporate tax rate under the Tax Act. The effective tax rates for the years ended December 31, 2018, and 2017 were 24.6 percent and 46.0 percent, respectively. The decrease in the effective tax rate was primarily due to the lower statutory federal corporate tax rate under the Tax Act and by the impact of the Tax Act in the prior year.

Matters Impacting Future Results

On April 17, 2015, the EPA published in the Federal Register a rule to regulate the disposal of CCR from electric utilities as solid waste. Duke Energy Indiana has interpreted the rule to identify the coal ash basin sites impacted and has assessed the amounts of coal ash subject to the rule and a method of compliance. Duke Energy Indiana's interpretation of the requirements of the CCR rule is subject to potential legal challenges and further regulatory approvals, which could result in additional ash basin closure requirements, higher costs of compliance and greater AROs. Additionally, Duke Energy Indiana has retired facilities that are not subject to the CCR rule. Duke Energy Indiana may incur costs at these facilities to comply with environmental regulations or to mitigate risks associated with on-site storage of coal ash. An order from regulatory authorities disallowing recovery of costs related to closure of ash basins could have an adverse impact on Duke Energy Indiana's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

PIEDMONT

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2018, and 2017, Piedmont's Annual Report on Form 10-K for the year ended October 31, 2016, and the Form 10-QT as of December 31, 2016, for the transition period from November 1, 2016, to December 31, 2016. The unaudited results of operations for the year ended December 31, 2016, were derived from data previously reported in the reports noted above.

Basis of Presentation

The results of operations and variance discussion for Piedmont is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2018	2017	Variance
Operating Revenues			
Regulated natural gas	\$ 1,365	\$ 1,319	\$ 46
Nonregulated natural gas and other	10	9	1
Total operating revenues	1,375	1,328	47
Operating Expenses			
Cost of natural gas	584	524	60
Operation, maintenance and other	357	304	53
Depreciation and amortization	159	148	11
Property and other taxes	49	48	1
Impairment charges	—	7	(7)
Total operating expenses	1,149	1,031	118
Operating Income	226	297	(71)
Equity in earnings (losses) of unconsolidated affiliates	7	(6)	13
Other income and expenses, net	14	(11)	25
Total other income and expenses	21	(17)	38
Interest Expense	81	79	2
Income Before Income Taxes	166	201	(35)
Income Tax Expense	37	62	(25)
Net Income	\$ 129	\$ 139	\$ (10)

The following table shows the percent changes in dekatherms delivered and average number of customers. The percentages for all throughput deliveries represent billed and unbilled sales. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2018	2017
Residential deliveries	23.6 %	(8.1)%
Commercial deliveries	14.9 %	(4.3)%
Industrial deliveries	4.2 %	(2.2)%
Power generation deliveries	23.6 %	(5.8)%
For resale	17.0 %	(20.9)%
Total throughput deliveries	19.0 %	(5.4)%
Secondary market volumes	(8.1)%	(4.2)%
Average number of customers	1.6 %	1.7 %

Piedmont's throughput was 557,145,128 dekatherms and 468,259,777 dekatherms for the years ended December 31, 2018, and 2017, respectively. Due to the margin decoupling mechanism in North Carolina and WNA mechanisms in South Carolina and Tennessee, changes in throughput deliveries do not have a material impact on Piedmont's revenues or earnings. The margin decoupling mechanism adjusts for variations in residential and commercial use per customer, including those due to weather and conservation. The WNA mechanisms mostly offset the impact of weather on bills rendered, but do not ensure full recovery of approved margin during periods when winter weather is significantly warmer or colder than normal.

Year Ended December 31, 2018, as compared to 2017

Operating Revenues. The variance was driven primarily by:

- a \$60 million increase primarily due to higher natural gas costs passed through to customers due to higher volumes sold and higher natural gas prices; and
- a \$37 million increase primarily due to residential and commercial customer revenue, net of natural gas costs passed through to customers, due to customer growth and IMR rate adjustments and new power generation customers.

Partially offset by:

- a \$51 million decrease primarily due to revenues subject to refund to customers associated with the lower statutory corporate tax rate under the Tax Act.

Operating Expenses. The variance was driven by:

- a \$60 million increase in cost of natural gas primarily due to higher volumes sold and higher natural gas costs passed through to customers due to the higher price per dekatherm of natural gas;
- a \$53 million increase in operations, maintenance and other expense primarily due to increased shared services, cost to achieve merger expenses and pension settlement charge; and
- an \$11 million increase in depreciation and amortization expense due to additional plant in service.

Partially offset by:

- a \$7 million decrease in impairment charges due to an impairment of software recorded in the prior year.

Other Income and Expenses. The variance was driven by:

- a \$25 million increase in other income and expenses, net primarily due to higher income from non-service components of employee benefit costs in the current year. For additional information on employee benefit costs, see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans"; and
- a \$13 million increase in equity earnings of unconsolidated affiliates from pipeline investments primarily due to favorable earnings partially offset by unfavorable impacts of the Tax Act in the prior year.

Income Tax Expense. The variance was primarily due to the lower statutory federal corporate tax rate under the Tax Act. The effective tax rates for the years ended December 31, 2018, and 2017 were 22.3 percent and 30.8 percent, respectively. The decrease in the effective tax rate was primarily due to the lower statutory federal corporate tax rate under the Tax Act.

Matters Impacting Future Results

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

CRITICAL ACCOUNTING POLICIES AND ESTIMATES

Preparation of financial statements requires the application of accounting policies, judgments, assumptions and estimates that can significantly affect the reported results of operations, cash flows or the amounts of assets and liabilities recognized in the financial statements. Judgments made include the likelihood of success of particular projects, possible legal and regulatory challenges, earnings assumptions on pension and other benefit fund investments and anticipated recovery of costs, especially through regulated operations.

Management discusses these policies, estimates and assumptions with senior members of management on a regular basis and provides periodic updates on management decisions to the Audit Committee. Management believes the areas described below require significant judgment in the application of accounting policy or in making estimates and assumptions that are inherently uncertain and that may change in subsequent periods.

For further information, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

Regulated Operations Accounting

Substantially all of Duke Energy's regulated operations meet the criteria for application of regulated operations accounting treatment. As a result, Duke Energy is required to record assets and liabilities that would not be recorded for nonregulated entities. Regulatory assets generally represent incurred costs that have been deferred because such costs are probable of future recovery in customer rates. Regulatory liabilities are recorded when it is probable that a regulator will require Duke Energy to make refunds to customers or reduce rates to customers for previous collections or deferred revenue for costs that have yet to be incurred.

Management continually assesses whether recorded regulatory assets are probable of future recovery by considering factors such as:

- applicable regulatory environment changes;
- historical regulatory treatment for similar costs in Duke Energy's jurisdictions;
- litigation of rate orders;
- recent rate orders to other regulated entities;
- levels of actual return on equity compared to approved rates of return on equity; and
- the status of any pending or potential deregulation legislation.

If future recovery of costs ceases to be probable, asset write-offs would be recognized in operating income. Additionally, regulatory agencies can provide flexibility in the manner and timing of the depreciation of property, plant and equipment, recognition of asset retirement costs and amortization of regulatory assets, or may disallow recovery of all or a portion of certain assets.

As required by regulated operations accounting rules, significant judgment can be required to determine if an otherwise recognizable incurred cost qualifies to be deferred for future recovery as a regulatory asset. Significant judgment can also be required to determine if revenues previously recognized are for entity specific costs that are no longer expected to be incurred or have not yet been incurred and are therefore a regulatory liability.

Goodwill Impairment Assessments

Duke Energy performed its annual goodwill impairment tests for all reporting units as of August 31, 2018, and all of the reporting units' estimated fair value of equity substantially exceeded the carrying value of equity, except for the Commercial Renewables reporting units, which recorded impairment charges of \$93 million. The fair values of the reporting units were calculated using a weighted combination of the income approach, which estimates fair value based on discounted cash flows, and the market approach, which estimates fair value based on market comparables within the utility and energy industries.

Estimated future cash flows under the income approach are based on Duke Energy's internal business plan. Significant assumptions used are growth rates, future rates of return expected to result from ongoing rate regulation and discount rates. Management determines the appropriate discount rate for each of its reporting units based on the WACC for each individual reporting unit. The WACC takes into account both the after-tax cost of debt and cost of equity. A major component of the cost of equity is the current risk-free rate on 20-year U.S. Treasury bonds. In the 2018 impairment tests, Duke Energy considered implied WACCs for certain peer companies in determining the appropriate WACC rates to use in its analysis. As each reporting unit has a different risk profile based on the nature of its operations, including factors such as regulation, the WACC for each reporting unit may differ. Accordingly, the WACCs were adjusted, as appropriate, to account for company specific risk premiums. The discount rates used for calculating the fair values as of August 31, 2018, for each of Duke Energy's reporting units ranged from 5.5 percent to 6.9 percent. The underlying assumptions and estimates are made as of a point in time. Subsequent changes, particularly changes in the discount rates, authorized regulated rates of return or growth rates inherent in management's estimates of future cash flows, could result in future impairment charges.

One of the most significant assumptions utilized in determining the fair value of reporting units under the market approach is implied market multiples for certain peer companies. Management selects comparable peers based on each peer's primary business mix, operations, and market capitalization compared to the applicable reporting unit and calculates implied market multiples based on available projected earnings guidance and peer company market values as of August 31.

Duke Energy primarily operates in environments that are rate-regulated. In such environments, revenue requirements are adjusted periodically by regulators based on factors including levels of costs, sales volumes and costs of capital. Accordingly, Duke Energy's regulated utilities operate to some degree with a buffer from the direct effects, positive or negative, of significant swings in market or economic conditions. However, significant changes in discount rates over a prolonged period may have a material impact on the fair value of equity.

For further information, see Note 11 to the Consolidated Financial Statements, "Goodwill and Intangible Assets."

Asset Retirement Obligations

AROs are recognized for legal obligations associated with the retirement of property, plant and equipment at the present value of the projected liability in the period in which it is incurred, if a reasonable estimate of fair value can be made.

The present value of the initial obligation and subsequent updates are based on discounted cash flows, which include estimates regarding timing of future cash flows, selection of discount rates and cost escalation rates, among other factors. These estimates are subject to change.

Obligations for nuclear decommissioning are based on site-specific cost studies. Duke Energy Carolinas and Duke Energy Progress assume prompt dismantlement of the nuclear facilities after operations are ceased. Duke Energy Florida assumes Crystal River Unit 3 will be placed into a safe storage configuration until eventual dismantlement is completed by 2074. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida also assume that spent fuel will be stored on-site until such time that it can be transferred to a yet to be built DOE facility.

Obligations for closure of ash basins are based upon discounted cash flows of estimated costs for site-specific plans, if known, or probability weightings of the potential closure methods if the closure plans are under development and multiple closure options are being considered and evaluated on a site-by-site basis.

For further information, see Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations."

Long-Lived Asset Impairment Assessments, Excluding Regulated Operations

Duke Energy evaluates property, plant and equipment for impairment when events or changes in circumstances (such as a significant change in cash flow projections or the determination that it is more likely than not that an asset or asset group will be sold) indicate the carrying value of such assets may not be recoverable. The determination of whether an impairment has occurred is based on an estimate of undiscounted future cash flows attributable to the assets, as compared with their carrying value.

Performing an impairment evaluation involves a significant degree of estimation and judgment in areas such as identifying circumstances that indicate an impairment may exist, identifying and grouping affected assets and developing the undiscounted future cash flows. If an impairment has occurred, the amount of the impairment recognized is determined by estimating the fair value and recording a loss if the carrying value is greater than the fair value. Additionally, determining fair value requires probability weighting future cash flows to reflect expectations about possible variations in their amounts or timing and the selection of an appropriate discount rate. Although cash flow estimates are based on relevant information available at the time the estimates are made, estimates of future cash flows are, by nature, highly uncertain and may vary significantly from actual results.

When determining whether an asset or asset group has been impaired, management groups assets at the lowest level that has discrete cash flows.

For further information, see Note 10 to the Consolidated Financial Statements, "Property, Plant and Equipment."

Equity Method Investments

Equity method investments are assessed for impairment when conditions exist that indicate that the fair value of the investment is less than book value. If the decline in value is considered to be other-than-temporary, an impairment charge is recorded and the investment is written down to its estimated fair value, which establishes a new cost basis in the investment.

Events or changes in circumstances are monitored that may indicate, in management's judgment, the carrying value of such investments may have experienced an other-than-temporary decline in value. The fair value of equity method investments is generally estimated using an income approach where significant judgments and assumptions include expected future cash flows, the appropriate discount rate, and probability weighted-scenarios, if applicable. In certain instances, a market approach may also be used to estimate the fair value of the equity method investment.

Events or changes in circumstances that may be indicative of an other-than-temporary decline in value will vary by investment, but may include:

- Significant delays in or failure to complete significant growth projects of investees;
- Adverse regulatory actions expected to substantially reduce the investee's product demand or profitability;
- Expected financial performance significantly worse than anticipated when initially invested;
- Prolonged period the fair value is below carrying value;
- A significant or sustained decline in the market value of an investee;
- Lower than expected cash distributions from investees;
- Significant asset impairments or operating losses recognized by investees; and
- Loss of significant customers or suppliers with no immediate prospects for replacement.

ACP

As of December 31, 2018, the carrying value of the equity method investment in ACP is \$0.8 billion, and Duke Energy's maximum exposure to loss for its guarantee of the ACP revolving credit facility is \$0.7 billion. During the fourth quarter of 2018, ACP received several adverse court rulings as described in Note 4 to the Consolidated Financial Statements, "Regulatory Matters." As a result, Duke Energy evaluated this investment for impairment and determined that fair value approximated carrying value and therefore no impairment was necessary.

Duke Energy estimated the fair value of its investment in ACP using an income approach that primarily considered probability-weighted scenarios of discounted future net cash flows based on the most recent estimate of total construction costs and revenues. These scenarios included assumptions of various court decisions and the impact those decisions may have on the timing and extent of investment, including scenarios assuming the full resolution of permitting issues in addition to a scenario where the project does not proceed. Most of the scenarios reflect phased in-service date assumptions. Certain scenarios within the analysis also included growth expectations from additional compression or other expansion opportunities and reopeners for pricing. A discount rate of 6.1 percent was used in the analysis. Higher probabilities were generally assigned to those scenarios where court approvals were received and the project moves forward under reasonable timelines reflecting interim rates and either current contracted pricing provisions, or prices subject to the reopeners. A very low probability was assigned to the scenario where the project does not proceed.

Judgments and assumptions are inherent in our estimates of future cash flows, discount rates, growth assumptions, and the likelihood of various scenarios. It is reasonably possible that future unfavorable developments, such as a reduced likelihood of success with court approvals, increased estimates of construction costs, material increases in the discount rate, important feedback on customer price increases or further significant delays, could result in a future impairment. The use of alternate judgments and assumptions could result in a different calculation of fair value, which could ultimately result in the recognition of an impairment charge in the consolidated financial statements.

For further information, see Note 12 to the Consolidated Financial Statements, "Investments in Unconsolidated Affiliates."

Pension and Other Post-Retirement Benefits

The calculation of pension expense, other post-retirement benefit expense and net pension and other post-retirement assets or liabilities require the use of assumptions and election of permissible accounting alternatives. Changes in assumptions can result in different expense and reported asset or liability amounts and future actual experience can differ from the assumptions. Duke Energy believes the most critical assumptions for pension and other post-retirement benefits are:

- the expected long-term rate of return on plan assets;
- the assumed discount rate applied to future projected benefit payments; and
- the health care cost trend rate.

Duke Energy elects to amortize net actuarial gain or loss amounts that are in excess of 10 percent of the greater of the market-related value of plan assets or the plan's projected benefit obligation, into net pension or other post-retirement benefit expense over the average remaining service period of active participants expected to benefit under the plan. If all or almost all of a plan's participants are inactive, the average remaining life expectancy of the inactive participants is used instead of average remaining service period. Prior service cost or credit, which represents an increase or decrease in a plan's pension benefit obligation resulting from plan amendment, is amortized on a straight-line basis over the average expected remaining service period of active participants expected to benefit under the plan. If all or almost all of a plan's participants are inactive, the average remaining life expectancy of the inactive participants is used instead of average remaining service period.

As of December 31, 2018, Duke Energy assumes pension and other post-retirement plan assets will generate a long-term rate of return of 6.85 percent. The expected long-term rate of return was developed using a weighted average calculation of expected returns based primarily on future expected returns across asset classes considering the use of active asset managers, where applicable. The asset allocation targets were set after considering the investment objective and the risk profile. Equity securities are held for their higher expected returns. Debt securities are primarily held to hedge the qualified pension liability. Real assets, return-seeking fixed income, hedge funds and other global securities are held for diversification. Investments within asset classes are diversified to achieve broad market participation and reduce the impact of individual managers on investments.

Duke Energy discounted its future U.S. pension and other post-retirement obligations using a rate of 4.3 percent as of December 31, 2018. Discount rates used to measure benefit plan obligations for financial reporting purposes reflect rates at which pension benefits could be effectively settled. As of December 31, 2018, Duke Energy determined its discount rate for U.S. pension and other post-retirement obligations using a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

Future changes in plan asset returns, assumed discount rates and various other factors related to the participants in Duke Energy's pension and post-retirement plans will impact future pension expense and liabilities. Duke Energy cannot predict with certainty what these factors will be in the future. The following table presents the approximate effect on Duke Energy's 2018 pretax pension expense, pretax other post-retirement expense, pension obligation and other post-retirement benefit obligation if a 0.25 percent change in rates were to occur.

(in millions)	Qualified and Non-Qualified Pension Plans		Other Post-Retirement Plans	
	0.25%	(0.25)%	0.25%	(0.25)%
Effect on 2018 pretax pension and other post-retirement expense				
Expected long-term rate of return	\$ (22)	\$ 22	\$ (1)	\$ 1
Discount rate	(12)	12	1	(1)
Effect on pension and other post-retirement benefit obligation at December 31, 2018				
Discount rate	(183)	188	(13)	13

Duke Energy's other post-retirement plan uses a health care cost trend rate covering both pre- and post-age 65 retired plan participants, which is comprised of a medical care cost trend rate, which reflects the near- and long-term expectation of increases in medical costs, and a prescription drug cost trend rate, which reflects the near- and long-term expectation of increases in prescription drug costs. As of December 31, 2018, the health care cost trend rate was 6.5 percent, trending down to 4.75 percent by 2024. The following table presents the approximate effect on Duke Energy's 2018 pretax other post-retirement expense and other post-retirement benefit obligation if a 1 percentage point change in the health care cost trend rate were to occur. These plans are closed to new employees.

(in millions)	Other Post-Retirement Plans	
	1%	(1)%
Effect on 2018 other post-retirement expense	\$ 1	\$ (1)
Effect on other post-retirement benefit obligation at December 31, 2018	22	(20)

For further information, see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans."

LIQUIDITY AND CAPITAL RESOURCES

Sources and Uses of Cash

Duke Energy relies primarily upon cash flows from operations, debt and equity issuances and its existing cash and cash equivalents to fund its liquidity and capital requirements. Duke Energy's capital requirements arise primarily from capital and investment expenditures, repaying long-term debt and paying dividends to shareholders.

Among other provisions, the Tax Act lowers the corporate federal income tax rate from 35 to 21 percent and eliminates bonus depreciation for regulated utilities. For Duke Energy's regulated operations, the reduction in federal income taxes is expected to result in lower regulated customer rates. However, due to its existing NOL position and other tax credits, Duke Energy does not expect to be a significant federal cash tax payer through at least 2022. As a result, any reduction in customer rates could cause a material reduction in consolidated cash flows from operations in the short term. Over time, the reduction in deferred tax liabilities resulting from the Tax Act will increase Duke Energy's regulated rate base investments and customer rates. Impacts of Tax Act to Duke Energy's cash flows and credit metrics are subject to the regulatory actions of its state commissions and the FERC. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

The Subsidiary Registrants generally maintain minimal cash balances and use short-term borrowings to meet their working capital needs and other cash requirements. The Subsidiary Registrants, excluding Progress Energy (Parent), support their short-term borrowing needs through participation with Duke Energy and certain of its other subsidiaries in a money pool arrangement. The companies with short-term funds may provide short-term loans to affiliates participating under this arrangement. See Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities," for additional discussion of the money pool arrangement.

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LIQUIDITY AND CAPITAL RESOURCES

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Duke Energy and the Subsidiary Registrants, excluding Progress Energy (Parent), may also use short-term debt, including commercial paper and the money pool, as a bridge to long-term debt financings. The levels of borrowing may vary significantly over the course of the year due to the timing of long-term debt financings and the impact of fluctuations in cash flows from operations. From time to time, Duke Energy's current liabilities exceed current assets resulting from the use of short-term debt as a funding source to meet scheduled maturities of long-term debt, as well as cash needs, which can fluctuate due to the seasonality of its businesses.

Equity Issuance

In order to strengthen its balance sheet and credit metrics and bolster cash flows, Duke Energy plans to issue \$500 million of common stock equity per year through 2023 through the DRIP and ATM programs. See Note 19 to the Consolidated Financial Statements, "Common Stock," for further information regarding Duke Energy's equity issuances in 2018.

Credit Facilities and Registration Statements

See Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities," for further information regarding credit facilities and shelf registration statements available to Duke Energy and the Duke Energy Registrants.

CAPITAL EXPENDITURES

Duke Energy continues to focus on reducing risk and positioning its business for future success and will invest principally in its strongest business sectors. Duke Energy's projected capital and investment expenditures, including debt AFUDC and capitalized interest, for the next three fiscal years are included in the table below.

(in millions)	2019	2020	2021
New generation	\$ 375	\$ 125	\$ 220
Regulated renewables	415	410	710
Environmental	240	125	35
Nuclear fuel	430	505	390
Major nuclear	305	315	250
Customer additions	505	480	475
Grid modernization and other transmission and distribution projects	2,835	3,160	2,980
Maintenance and other	3,395	2,605	2,390
Total Electric Utilities and Infrastructure	8,500	7,725	7,450
Gas Utilities and Infrastructure	1,675	2,000	1,600
Commercial Renewables and Other	925	825	625
Total projected capital and investment expenditures	\$ 11,100	\$ 10,550	\$ 9,675

DEBT MATURITIES

See Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities," for further information regarding significant components of Current Maturities of Long-Term Debt on the Consolidated Balance Sheets.

DIVIDEND PAYMENTS

In 2018, Duke Energy paid quarterly cash dividends for the 92nd consecutive year and expects to continue its policy of paying regular cash dividends in the future. There is no assurance as to the amount of future dividends because they depend on future earnings, capital requirements, financial condition and are subject to the discretion of the Board of Directors.

Duke Energy targets a dividend payout ratio of between 65 and 75 percent, based upon adjusted diluted EPS, and expects this trend to continue through 2023. In 2017 and 2018, Duke Energy increased the dividend by approximately 4 percent annually, and the company remains committed to continued growth of the dividend.

Dividend and Other Funding Restrictions of Duke Energy Subsidiaries

As discussed in Note 4 to the Consolidated Financial Statements, "Regulatory Matters," Duke Energy's wholly owned public utility operating companies have restrictions on the amount of funds that can be transferred to Duke Energy through dividends, advances or loans as a result of conditions imposed by various regulators in conjunction with merger transactions. Duke Energy Progress and Duke Energy Florida also have restrictions imposed by their first mortgage bond indentures and Articles of Incorporation, which in certain circumstances, limit their ability to make cash dividends or distributions on common stock. Additionally, certain other Duke Energy subsidiaries have other restrictions, such as minimum working capital and tangible net worth requirements pursuant to debt and other agreements that limit the amount of funds that can be transferred to Duke Energy. At December 31, 2018, the amount of restricted net assets of wholly owned subsidiaries of Duke Energy that may not be distributed to Duke Energy in the form of a loan or dividend does not exceed a material amount of Duke Energy's net assets. Duke Energy does not have any legal or other restrictions on paying common stock dividends to shareholders out of its consolidated equity accounts. Although these restrictions cap the amount of funding the various operating subsidiaries can provide to Duke Energy, management does not believe these restrictions will have a significant impact on Duke Energy's ability to access cash to meet its payment of dividends on common stock and other future funding obligations.

CASH FLOWS FROM OPERATING ACTIVITIES

Cash flows from operations of Electric Utilities and Infrastructure and Gas Utilities and Infrastructure are primarily driven by sales of electricity and natural gas, respectively, and costs of operations. These cash flows from operations are relatively stable and comprise a substantial portion of Duke Energy's operating cash flows. Weather conditions, working capital and commodity price fluctuations and unanticipated expenses including unplanned plant outages, storms, legal costs and related settlements can affect the timing and level of cash flows from operations.

Duke Energy believes it has sufficient liquidity resources through the commercial paper markets, and ultimately, the Master Credit Facility, to support these operations. Cash flows from operations are subject to a number of other factors, including, but not limited to, regulatory constraints, economic trends and market volatility (see Item 1A, "Risk Factors," for additional information).

At December 31, 2018, Duke Energy had cash and cash equivalents and short-term investments of \$442 million.

DEBT ISSUANCES

Depending on availability based on the issuing entity, the credit rating of the issuing entity, and market conditions, the Subsidiary Registrants prefer to issue first mortgage bonds and secured debt, followed by unsecured debt. This preference is the result of generally higher credit ratings for first mortgage bonds and secured debt, which typically result in lower interest costs. Duke Energy Corporation primarily issues unsecured debt.

In 2019, Duke Energy anticipates issuing additional debt of \$7.5 billion, primarily for the purpose of funding capital expenditures and debt maturities. See to Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities," for further information regarding significant debt issuances in 2018.

Duke Energy's capitalization is balanced between debt and equity as shown in the table below.

	Projected 2019	Actual 2018	Actual 2017
Equity	44%	43%	43%
Debt	56%	57%	57%

Restrictive Debt Covenants

Duke Energy's debt and credit agreements contain various financial and other covenants. Duke Energy's Master Credit Facility contains a covenant requiring the debt-to-total capitalization ratio to not exceed 65 percent for each borrower, excluding Piedmont, and 70 percent for Piedmont. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements or sublimits thereto. As of December 31, 2018, each of the Duke Energy Registrants was in compliance with all covenants related to their debt agreements. In addition, some credit agreements may allow for acceleration of payments or termination of the agreements due to nonpayment, or acceleration of other significant indebtedness of the borrower or some of its subsidiaries. None of the debt or credit agreements contain material adverse change clauses.

MD&A

LIQUIDITY AND CAPITAL RESOURCES

Credit Ratings

Moody's, S&P and Fitch Ratings, Inc. provide credit ratings for various Duke Energy Registrants. The following table includes Duke Energy and certain subsidiaries' credit ratings and ratings outlook as of February 2019.

	Moody's	S&P	Fitch
Duke Energy Corporation	Stable	Stable	Stable
Issuer Credit Rating	Baa1	A-	BBB+
Senior Unsecured Debt	Baa1	BBB+	BBB+
Commercial Paper	P-2	A-2	F-2
Duke Energy Carolinas	Stable	Stable	N/A
Senior Secured Debt	Aa2	A	N/A
Senior Unsecured Debt	A1	A-	N/A
Progress Energy	Stable	Stable	N/A
Senior Unsecured Debt	Baa1	BBB+	N/A
Duke Energy Progress	Stable	Stable	N/A
Senior Secured Debt	Aa3	A	N/A
Duke Energy Florida	Stable	Stable	N/A
Senior Secured Debt	A1	A	N/A
Senior Unsecured Debt	A3	A-	N/A
Duke Energy Ohio	Stable	Stable	N/A
Senior Secured Debt	A2	A	N/A
Senior Unsecured Debt	Baa1	A-	N/A
Duke Energy Indiana	Stable	Stable	N/A
Senior Secured Debt	Aa3	A	N/A
Senior Unsecured Debt	A2	A-	N/A
Duke Energy Kentucky	Stable	Stable	N/A
Senior Unsecured Debt	Baa1	A-	N/A
Piedmont Natural Gas	Stable	Stable	N/A
Senior Unsecured	A3	A-	N/A

Credit ratings are intended to provide credit lenders a framework for comparing the credit quality of securities and are not a recommendation to buy, sell or hold. The Duke Energy Registrants' credit ratings are dependent on the rating agencies' assessments of their ability to meet their debt principal and interest obligations when they come due. If, as a result of market conditions or other factors, the Duke Energy Registrants are unable to maintain current balance sheet strength, or if earnings and cash flow outlook materially deteriorates, credit ratings could be negatively impacted.

Cash Flow Information

The following table summarizes Duke Energy's cash flows for the three most recently completed fiscal years.

(in millions)	Years Ended December 31,		
	2018	2017	2016
Cash flows provided by (used in):			
Operating activities	\$ 7,186	\$ 6,624	\$ 6,863
Investing activities	(10,060)	(8,442)	(11,528)
Financing activities	2,960	1,782	4,251
Changes in cash and cash equivalents included in assets held for sale	—	—	474
Net increase (decrease) in cash, cash equivalents and restricted cash	86	(36)	60
Cash, cash equivalents and restricted cash at beginning of period	505	541	481
Cash, cash equivalents and restricted cash at end of period	\$ 591	\$ 505	\$ 541

MD&A

LIQUIDITY AND CAPITAL RESOURCES

OPERATING CASH FLOWS

The following table summarizes key components of Duke Energy's operating cash flows for the three most recently completed fiscal years.

(in millions)	Years Ended December 31,				
			Variance	Variance	
	2018	2017	2018 vs. 2017	2017 vs. 2016	2016
Net income	\$ 2,644	\$ 3,064	\$ (420)	\$ 2,170	\$ 894
Non-cash adjustments to net income	6,484	5,380	1,104	5,305	75
Contributions to qualified pension plans	(141)	(19)	(122)	(155)	136
Payments for AROs	(533)	(571)	38	(608)	37
Payment for disposal of other assets	(105)	—	(105)	—	—
Working capital	(1,163)	(1,230)	67	151	(1,381)
Net cash provided by operating activities	\$ 7,186	\$ 6,624	\$ 562	\$ 6,863	\$ (239)

For the year ended December 31, 2018, compared to 2017, the variance was driven primarily by:

- a \$684 million increase in net income after adjustment for non-cash items primarily due to favorable weather and increased pricing and volumes in the current period; and
- a \$38 million decrease in payments to AROs.

Offset by:

- a \$122 million increase in contributions to qualified pension plans; and
- a \$105 million payment for disposal of Beckjord.

For the year ended December 31, 2017, compared to 2016, the variance was driven primarily by:

- a \$1,381 million decrease in working capital due to weather, payment of merger transaction and integration related costs and increased property tax payments in 2017.

Offset by:

- a \$969 million increase in net income after non-cash adjustments primarily due to the inclusion of Piedmont's earnings for a full year, favorable pricing and weather-normal retail volumes driven by the residential class in the Electric Utilities and Infrastructure segment combined with continued strong cost control;
- a \$136 million decrease in contributions to qualified pension plans; and
- a \$37 million decrease in payments to AROs.

INVESTING CASH FLOWS

The following table summarizes key components of Duke Energy's investing cash flows for the three most recently completed fiscal years.

(in millions)	Years Ended December 31,				
			Variance	Variance	
	2018	2017	2018 vs. 2017	2017 vs. 2016	2016
Capital, investment and acquisition expenditures	\$ (9,668)	\$ (8,198)	\$ (1,470)	\$ (13,215)	\$ 5,017
Debt and equity securities, net	(15)	27	(42)	83	(56)
Net proceeds from the sales of discontinued operations and other assets, net of cash divested	41	—	41	1,418	(1,418)
Other investing items	(418)	(271)	(147)	186	(457)
Net cash used in investing activities	\$ (10,060)	\$ (8,442)	\$ (1,618)	\$ (11,528)	\$ 3,086

MD&A

LIQUIDITY AND CAPITAL RESOURCES

The primary use of cash related to investing activities is capital, investment and acquisition expenditures, detailed by reportable business segment in the following table.

(in millions)	Years Ended December 31,		
	2018	2017	2016
Electric Utilities and Infrastructure	\$ 8,086	\$ 7,024	\$ 6,649
Gas Utilities and Infrastructure	1,133	907	5,519
Commercial Renewables	193	92	857
Other	256	175	190
Total capital, investment and acquisition expenditures	\$ 9,668	\$ 8,198	\$ 13,215

For the year ended December 31, 2018, compared to 2017, the variance was driven primarily by:

- a \$1,470 million increase in capital, investment and acquisition expenditures in all reportable business segments, including expenditures related to W.S. Lee CC, Asheville and Citrus County CC at Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, respectively.

For the year ended December 31, 2017, compared to 2016, the variance was driven primarily by:

- a \$5,017 million decrease in capital, investment and acquisition expenditures mainly due to the Piedmont acquisition in the prior year.

Partially offset by:

- a \$1,418 million decrease in net proceeds from sales of discontinued operations due to the prior year sale of the International business.

FINANCING CASH FLOWS

The following table summarizes key components of Duke Energy's financing cash flows for the three most recently completed fiscal years.

(in millions)	Years Ended December 31,				
			Variance	Variance	
	2018	2017	2018 vs. 2017	2016	2017 vs. 2016
Issuance of common stock	\$ 1,838	\$ —	\$ 1,838	\$ 731	\$ (731)
Issuances of long-term debt, net	2,393	4,593	(2,200)	7,315	(2,722)
Notes payable and commercial paper	1,171	(362)	1,533	(1,447)	1,085
Dividends paid	(2,471)	(2,450)	(21)	(2,332)	(118)
Other financing items	29	1	28	(16)	17
Net cash provided by financing activities	\$ 2,960	\$ 1,782	\$ 1,178	\$ 4,251	\$ (2,469)

For the year ended December 31, 2018, compared to 2017, the variance was driven primarily by:

- a \$1,838 million increase in proceeds from the issuance of common stock; and
- a \$1,533 million increase in net borrowings from notes payable and commercial paper primarily due to increased funding requirements for capital expenditures and storm costs.

Partially offset by:

- a \$2,200 million net decrease in proceeds from issuances of long-term debt primarily due to timing related to refinancing of existing maturities, fund growth and general corporate needs.

For the year ended December 31, 2017, compared to 2016, the variance was driven primarily by:

- a \$2,722 million net decrease in proceeds from issuances of long-term debt driven principally by the prior year \$3,750 million of senior unsecured notes used to fund a portion of the Piedmont acquisition, offset primarily by \$900 million of first mortgage bonds issued by Duke Energy Florida in the current year to fund capital expenditures for ongoing construction and capital maintenance and for general corporate purposes;
- a \$731 million decrease in proceeds from stock issuances used to fund a portion of the Piedmont acquisition in 2016; and
- a \$118 million current year increase in dividends paid.

Partially offset by:

- a \$1,085 million decrease in net borrowings from notes payable and commercial paper primarily due to the use of proceeds from \$1,294 million nuclear asset-recovery bonds issued at Duke Energy Florida in 2016 to pay down outstanding commercial paper.

Off-Balance Sheet Arrangements

Duke Energy and certain of its subsidiaries enter into guarantee arrangements in the normal course of business to facilitate commercial transactions with third parties. These arrangements include performance guarantees, standby letters of credit, debt guarantees, surety bonds and indemnifications.

Most of the guarantee arrangements entered into by Duke Energy enhance the credit standing of certain subsidiaries, non-consolidated entities or less than wholly owned entities, enabling them to conduct business. As such, these guarantee arrangements involve elements of performance and credit risk, which are not always included on the Consolidated Balance Sheets. The possibility of Duke Energy, either on its own or on behalf of Spectra Energy Capital, LLC (Spectra Capital) through indemnification agreements entered into as part of the January 2, 2007, spin-off of Spectra Energy Corp, having to honor its contingencies is largely dependent upon the future operations of the subsidiaries, investees and other third parties, or the occurrence of certain future events.

Duke Energy performs ongoing assessments of its respective guarantee obligations to determine whether any liabilities have been incurred as a result of potential increased non-performance risk by third parties for which Duke Energy has issued guarantees. See Note 7 to the Consolidated Financial Statements, "Guarantees and Indemnifications," for further details of the guarantee arrangements. Issuance of these guarantee arrangements is not required for the majority of Duke Energy's operations. Thus, if Duke Energy discontinued issuing these guarantees, there would not be a material impact to the consolidated results of operations, cash flows or financial position.

Other than the guarantee arrangements discussed above, normal operating lease arrangements and off-balance sheet debt related to non-consolidated VIEs, Duke Energy does not have any material off-balance sheet financing entities or structures. For additional information, see Notes 5 and 17 to the Consolidated Financial Statements, "Commitments and Contingencies" and "Variable Interest Entities," respectively.

Contractual Obligations

Duke Energy enters into contracts that require payment of cash at certain specified periods, based on certain specified minimum quantities and prices. The following table summarizes Duke Energy's contractual cash obligations as of December 31, 2018.

(in millions)	Total	Payments Due By Period			
		Less than 1 year (2019)	2-3 years (2020 & 2021)	4-5 years (2022 & 2023)	More than 5 years (2024 & beyond)
Long-term debt ^(a)	\$ 52,446	\$ 3,291	\$ 8,311	\$ 5,861	\$ 34,983
Interest payments on long-term debt ^(b)	32,834	2,121	3,823	3,329	23,561
Capital leases ^(c)	1,428	170	351	330	577
Operating leases ^(c)	1,991	239	405	330	1,017
Purchase obligations: ^(d)					
Fuel and purchased power ^{(e)(f)}	20,496	4,329	5,315	3,153	7,699
Other purchase obligations ^(g)	12,436	4,617	1,178	775	5,866
Nuclear decommissioning trust annual funding ^(h)	482	24	48	48	362
Land easements ⁽ⁱ⁾	234	10	20	20	184
Total contractual cash obligations ^{(j)(k)}	\$ 122,347	\$ 14,801	\$ 19,451	\$ 13,846	\$ 74,249

(a) See Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities."

(b) Interest payments on variable rate debt instruments were calculated using December 31, 2018, interest rates and holding them constant for the life of the instruments.

(c) See Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies." Amounts in the table above include the interest component of capital leases based on the interest rates stated in the lease agreements and exclude certain related executory costs. Amounts exclude contingent lease obligations.

(d) Current liabilities, except for current maturities of long-term debt, and purchase obligations reflected on the Consolidated Balance Sheets have been excluded from the above table.

(e) Includes firm capacity payments that provide Duke Energy with uninterrupted firm access to electricity transmission capacity and natural gas transportation contracts, as well as undesignated contracts and contracts that qualify as NPNS. For contracts where the price paid is based on an index, the amount is based on market prices at December 31, 2018, or the best projections of the index. For certain of these amounts, Duke Energy may settle on a net cash basis since Duke Energy has entered into payment netting arrangements with counterparties that permit Duke Energy to offset receivables and payables with such counterparties.

(f) Amounts exclude obligations under the OVEC purchase power agreement. See Note 17 to the Consolidated Financial Statements, "Variable Interest Entities," for additional information.

(g) Includes contracts for software, telephone, data and consulting or advisory services. Amount also includes contractual obligations for EPC costs for new generation plants, wind and solar facilities, plant refurbishments, maintenance and day-to-day contract work and commitments to buy certain products. Amount excludes certain open purchase orders for services that are provided on demand, for which the timing of the purchase cannot be determined.

(h) Related to future annual funding obligations to NDTF through nuclear power stations' relicensing dates. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations."

(i) Related to Commercial Renewables wind and solar facilities.

- (j) Unrecognized tax benefits of \$24 million are not reflected in this table as Duke Energy cannot predict when open income tax years will close with completed examinations. See Note 23 to the Consolidated Financial Statements, "Income Taxes."
- (k) The table above excludes reserves for litigation, environmental remediation, asbestos-related injuries and damages claims and self-insurance claims (see Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies") because Duke Energy is uncertain as to the timing and amount of cash payments that will be required. Additionally, the table above excludes annual insurance premiums that are necessary to operate the business, including nuclear insurance (see Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies"), funding of pension and other post-retirement benefit plans (see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans"), AROs, including ash management expenditures (see Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations") and regulatory liabilities (see Note 4 to the Consolidated Financial Statements, "Regulatory Matters") because the amount and timing of the cash payments are uncertain. Also excluded are Deferred Income Taxes and ITCs recorded on the Consolidated Balance Sheets since cash payments for income taxes are determined based primarily on taxable income for each discrete fiscal year.

QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Risk Management Policies

The Enterprise Risk Management policy framework at Duke Energy includes strategy, operational, project execution and financial or transaction related risks. Enterprise Risk Management includes market risk as part of the financial and transaction related risks in its framework.

Duke Energy is exposed to market risks associated with commodity prices, interest rates and equity prices. Duke Energy has established comprehensive risk management policies to monitor and manage these market risks. Duke Energy's Chief Executive Officer and Chief Financial Officer are responsible for the overall approval of market risk management policies and the delegation of approval and authorization levels. The Finance and Risk Management Committee of the Board of Directors receives periodic updates from the Chief Risk Officer and other members of management on market risk positions, corporate exposures and overall risk management activities. The Chief Risk Officer is responsible for the overall governance of managing commodity price risk, including monitoring exposure limits.

The following disclosures about market risk contain forward-looking statements that involve estimates, projections, goals, forecasts, assumptions, risks and uncertainties that could cause actual results or outcomes to differ materially from those expressed in the forward-looking statements. See Item 1A, "Risk Factors," and "Cautionary Statement Regarding Forward-Looking Information" for a discussion of the factors that may impact any such forward-looking statements made herein.

Commodity Price Risk

Duke Energy is exposed to the impact of market fluctuations in the prices of electricity, coal, natural gas and other energy-related products marketed and purchased as a result of its ownership of energy-related assets. Duke Energy's exposure to these fluctuations is limited by the cost-based regulation of its regulated operations as these operations are typically allowed to recover substantially all of these costs through various cost-recovery clauses, including fuel clauses, formula based contracts, or other cost-sharing mechanisms. While there may be a delay in timing between when these costs are incurred and when they are recovered through rates, changes from year to year generally do not have a material impact on operating results of these regulated operations.

Price risk represents the potential risk of loss from adverse changes in the market price of electricity or other energy commodities. Duke Energy's exposure to commodity price risk is influenced by a number of factors, including contract size, length, market liquidity, location and unique or specific contract terms. Duke Energy employs established policies and procedures to manage risks associated with these market fluctuations, which may include using various commodity derivatives, such as swaps, futures, forwards and options. For additional information, see Note 14 to the Consolidated Financial Statements, "Derivatives and Hedging."

The inputs and methodologies used to determine the fair value of contracts are validated by an internal group separate from Duke Energy's deal origination function. While Duke Energy uses common industry practices to develop its valuation techniques, changes in its pricing methodologies or the underlying assumptions could result in significantly different fair values and income recognition.

Hedging Strategies

Duke Energy closely monitors risks associated with commodity price changes on its future operations and, where appropriate, uses various commodity instruments such as electricity, coal and natural gas forward contracts and options to mitigate the effect of such fluctuations on operations. Duke Energy's primary use of energy commodity derivatives is to hedge against exposure to the prices of power, fuel for generation and natural gas for customers.

The majority of instruments used to manage Duke Energy's commodity price exposure are either not designated as hedges or do not qualify for hedge accounting. These instruments are referred to as undesignated contracts. Mark-to-market changes for undesignated contracts entered into by regulated businesses are reflected as regulatory assets or liabilities on the Consolidated Balance Sheets. Undesignated contracts entered into by unregulated businesses are marked-to-market each period, with changes in the fair value of the derivative instruments reflected in earnings.

Duke Energy may also enter into other contracts that qualify for the NPNS exception. When a contract meets the criteria to qualify as NPNS, Duke Energy applies such exception. Income recognition and realization related to NPNS contracts generally coincide with the physical delivery of the commodity. For contracts qualifying for the NPNS exception, no recognition of the contract's fair value in the Consolidated Financial Statements is required until settlement of the contract as long as the transaction remains probable of occurring.

Generation Portfolio Risks

The Duke Energy Registrants optimize the value of their generation portfolios, which include generation assets, fuel and emission allowances. Modeled forecasts of future generation output and fuel requirements are based on forward power and fuel markets. The component pieces of the portfolio are bought and sold based on models and forecasts of generation in order to manage the economic value of the portfolio in accordance with the strategies of the business units.

For the Electric Utilities and Infrastructure segment, the generation portfolio not utilized to serve retail operations or committed load is subject to commodity price fluctuations. However, the impact on the Consolidated Statements of Operations is partially offset by mechanisms in these regulated jurisdictions that result in the sharing of net profits from these activities with retail customers.

Interest Rate Risk

Duke Energy is exposed to risk resulting from changes in interest rates as a result of its issuance or anticipated issuance of variable and fixed-rate debt and commercial paper. Duke Energy manages interest rate exposure by limiting variable-rate exposures to a percentage of total debt and by monitoring the effects of market changes in interest rates. Duke Energy also enters into financial derivative instruments, which may include instruments such as, but not limited to, interest rate swaps, swaptions and U.S. Treasury lock agreements to manage and mitigate interest rate risk exposure. See Notes 1, 6, 14 and 16 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies," "Debt and Credit Facilities," "Derivatives and Hedging," and "Fair Value Measurements."

At December 31, 2018, Duke Energy had \$1.2 billion of U.S. treasury lock agreements, \$644 million notional amount of floating-to-fixed swaps outstanding, \$500 million notional amount of fixed-to-floating swaps outstanding and \$300 million forward-starting swaps outstanding. Duke Energy had \$8.0 billion of unhedged long- and short-term floating interest rate exposure at December 31, 2018. The impact of a 100 basis point change in interest rates on pretax income is approximately \$80 million at December 31, 2018. This amount was estimated by considering the impact of the hypothetical interest rates on variable-rate securities outstanding, adjusted for interest rate hedges as of December 31, 2018.

See Note 14, "Derivatives and Hedging," to the Consolidated Financial Statements for additional information about the forward-starting interest rate swaps related to the Piedmont acquisition.

Credit Risk

Credit risk represents the loss that the Duke Energy Registrants would incur if a counterparty fails to perform under its contractual obligations. Where exposed to credit risk, the Duke Energy Registrants analyze the counterparty's financial condition prior to entering into an agreement and monitor exposure on an ongoing basis. The Duke Energy Registrants establish credit limits where appropriate in the context of contractual arrangements and monitor such limits.

To reduce credit exposure, the Duke Energy Registrants seek to include netting provisions with counterparties, which permit the offset of receivables and payables with such counterparties. The Duke Energy Registrants also frequently use master agreements with credit support annexes to further mitigate certain credit exposures. The master agreements provide for a counterparty to post cash or letters of credit to the exposed party for exposure in excess of an established threshold. The threshold amount represents a negotiated unsecured credit limit for each party to the agreement, determined in accordance with the Duke Energy Registrants' internal corporate credit practices and standards. Collateral agreements generally also provide that the inability to post collateral is sufficient cause to terminate contracts and liquidate all positions.

The Duke Energy Registrants also obtain cash or letters of credit from certain counterparties to provide credit support outside of collateral agreements, where appropriate, based on a financial analysis of the counterparty and the regulatory or contractual terms and conditions applicable to each transaction. See Note 14 to the Consolidated Financial Statements, "Derivatives and Hedging," for additional information regarding credit risk related to derivative instruments.

The Duke Energy Registrants' principal counterparties for its electric and natural gas businesses are regional transmission organizations, distribution companies, municipalities, electric cooperatives and utilities located throughout the U.S. The Duke Energy Registrants have concentrations of receivables from such entities throughout these regions. These concentrations of receivables may affect the Duke Energy Registrants' overall credit risk in that risk factors can negatively impact the credit quality of the entire sector.

The Duke Energy Registrants are also subject to credit risk from transactions with their suppliers that involve prepayments in conjunction with outsourcing arrangements, major construction projects and certain commodity purchases. The Duke Energy Registrants' credit exposure to such suppliers may take the form of increased costs or project delays in the event of non-performance. The Duke Energy Registrants' frequently require guarantees or letters of credit from suppliers to mitigate this credit risk.

Credit risk associated with the Duke Energy Registrants' service to residential, commercial and industrial customers is generally limited to outstanding accounts receivable. The Duke Energy Registrants mitigate this credit risk by requiring customers to provide a cash deposit, letter of credit or surety bond until a satisfactory payment history is established, subject to the rules and regulations in effect in each retail jurisdiction, at which time the deposit is typically refunded. Charge-offs for retail customers have historically been insignificant to the operations of the Duke Energy Registrants and are typically recovered through retail rates. Management continually monitors customer charge-offs and payment patterns to ensure the adequacy of bad debt reserves. Duke Energy Ohio and Duke Energy Indiana sell certain of their accounts receivable and related collections through CRC, a Duke Energy consolidated variable interest entity. Losses on collection are first absorbed by the equity of CRC and next by the subordinated retained interests held by Duke Energy Ohio, Duke Energy Kentucky and Duke Energy Indiana. See Note 17 to the Consolidated Financial Statements, "Variable Interest Entities." Duke Energy also provides certain non-tariff services, primarily to large commercial and industrial customers, in which incurred costs are intended to be recovered from the individual customer and therefore are not subject to rate recovery in the event of customer default. Customer credit worthiness is assessed prior to entering into these transactions.

Duke Energy's Commercial Renewables business segment enters into long-term agreements with certain creditworthy buyers that may not include the right to call for collateral in the event of a credit rating downgrade, and is therefore exposed to market price risk and credit risk related to these agreements. Credit concentration exists to certain counterparties on these agreements.

Duke Energy Carolinas has third-party insurance to cover certain losses related to asbestos-related injuries and damages above an aggregate self-insured retention. See Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies" for information on asbestos-related injuries and damages claims.

The Duke Energy Registrants also have credit risk exposure through issuance of performance and financial guarantees, letters of credit and surety bonds on behalf of less than wholly owned entities and third parties. Where the Duke Energy Registrants have issued these guarantees, it is possible that they could be required to perform under these guarantee obligations in the event the obligor under the guarantee fails to perform. Where the Duke Energy Registrants have issued guarantees related to assets or operations that have been disposed of via sale, they attempt to secure indemnification from the buyer against all future performance obligations under the guarantees. See Note 7 to the Consolidated Financial Statements, "Guarantees and Indemnifications," for further information on guarantees issued by the Duke Energy Registrants.

Based on the Duke Energy Registrants' policies for managing credit risk, their exposures and their credit and other reserves, the Duke Energy Registrants do not currently anticipate a materially adverse effect on their consolidated financial position or results of operations as a result of non-performance by any counterparty.

Marketable Securities Price Risk

As described further in Note 15 to the Consolidated Financial Statements, "Investments in Debt and Equity Securities," Duke Energy invests in debt and equity securities as part of various investment portfolios to fund certain obligations. The vast majority of investments in equity securities are within the NDTF and assets of the various pension and other post-retirement benefit plans.

Pension Plan Assets

Duke Energy maintains investments to facilitate funding the costs of providing non-contributory defined benefit retirement and other post-retirement benefit plans. These investments are exposed to price fluctuations in equity markets and changes in interest rates. The equity securities held in these pension plans are diversified to achieve broad market participation and reduce the impact of any single investment, sector or geographic region. Duke Energy has established asset allocation targets for its pension plan holdings, which take into consideration the investment objectives and the risk profile with respect to the trust in which the assets are held. See Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans," for additional information regarding investment strategy of pension plan assets.

A significant decline in the value of plan asset holdings could require Duke Energy to increase funding of its pension plans in future periods, which could adversely affect cash flows in those periods. Additionally, a decline in the fair value of plan assets, absent additional cash contributions to the plan, could increase the amount of pension cost required to be recorded in future periods, which could adversely affect Duke Energy's results of operations in those periods.

Nuclear Decommissioning Trust Funds

As required by the NRC, NCUC, PSCSC and FPSC, subsidiaries of Duke Energy maintain trust funds to fund the costs of nuclear decommissioning. As of December 31, 2018, these funds were invested primarily in domestic and international equity securities, debt securities, cash and cash equivalents and short-term investments. Per the NRC, Internal Revenue Code, NCUC, PSCSC and FPSC requirements, these funds may be used only for activities related to nuclear decommissioning. These investments are exposed to price fluctuations in equity markets and changes in interest rates. Duke Energy actively monitors its portfolios by benchmarking the performance of its investments against certain indices and by maintaining, and periodically reviewing, target allocation percentages for various asset classes.

Accounting for nuclear decommissioning recognizes that costs are recovered through retail and wholesale rates; therefore, fluctuations in investment prices do not materially affect the Consolidated Statements of Operations, as changes in the fair value of these investments are primarily deferred as regulatory assets or regulatory liabilities pursuant to Orders by the NCUC, PSCSC, FPSC and FERC. Earnings or losses of the fund will ultimately impact the amount of costs recovered through retail and wholesale rates. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information regarding nuclear decommissioning costs. See Note 15 to the Consolidated Financial Statements, "Investments in Debt and Equity Securities," for additional information regarding NDTF assets.

OTHER MATTERS

Environmental Regulations

The Duke Energy Registrants are subject to federal, state and local regulations regarding air and water quality, hazardous and solid waste disposal and other environmental matters. These regulations can be changed from time to time and result in new obligations of the Duke Energy Registrants.

The following sections outline various proposed and recently enacted legislation and regulations that may impact the Duke Energy Registrants. Refer to Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for further information regarding potential plant retirements and regulatory filings related to the Duke Energy Registrants.

Coal Combustion Residuals

In April 2015, EPA published a rule to regulate the disposal of CCR from electric utilities as solid waste. The federal regulation classifies CCR as nonhazardous waste and allows for beneficial use of CCR with some restrictions. The regulation applies to all new and existing landfills, new and existing surface impoundments receiving CCR and existing surface impoundments that are no longer receiving CCR but contain liquid located at stations currently generating electricity (regardless of fuel source). The rule establishes requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring, protection and remedial procedures and other operational and reporting procedures to ensure the safe disposal and management of CCR. Various industry and environmental parties have appealed EPA's CCR rule in the D.C. Circuit Court. On April 18, 2016, EPA filed a motion with the federal court to settle five issues raised in litigation. On June 14, 2016, the court approved the motion with respect to all of those issues. Duke Energy does not expect a material impact from the settlement or that it will result in additional ARO adjustments. On September 13, 2017, EPA responded to a petition by the Utility Solid Waste Activities Group that the agency would reconsider certain provisions of the final rule, and asked the D.C. Circuit Court to suspend the litigation. The D.C. Circuit Court denied EPA's petition to suspend the litigation and oral argument was held on November 20, 2017. On August 21, 2018, the D.C. Circuit issued its decision in the CCR rule litigation denying relief for industry petitioners' remaining claims and ruling in favor of environmental petitioners on a number of their challenges, including the regulation of inactive CCR surface impoundments at retired plants and the continued operation of unlined impoundments.

On March 15, 2018, EPA published proposed amendments to the federal CCR rule, including revisions that were required as part of a CCR litigation settlement, as well as changes that the agency considers warranted due to the passage of the Water Infrastructure Improvements for the Nation Act, which provides statutory authority for state and federal permit programs. On July 17, 2018, EPA issued a rule (Phase 1, Part 1) finalizing certain, but not all, elements included in the agency's March 15, 2018, proposal. The final rule revises certain closure deadlines and groundwater protection standards in the CCR rule. It does not change the primary requirements for groundwater monitoring, corrective action, inspections and maintenance, and closure, and thus does not materially affect Duke Energy's coal ash basin closure plans or compliance obligations under the CCR rule. On October 22, 2018, a coalition of environmental groups filed a petition for review in the D.C. Circuit Court challenging EPA's final Phase 1, Part 1 revisions to the CCR rule. Briefing in the case concluded in February 2019.

In addition to the requirements of the federal CCR regulation, CCR landfills and surface impoundments will continue to be independently regulated by most states. Cost recovery for future expenditures will be pursued through the normal ratemaking process with federal and state utility commissions and via wholesale contracts, which permit recovery of necessary and prudently incurred costs associated with Duke Energy's regulated operations. For more information, see Notes 4 and 9 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively.

Coal Ash Management Act of 2014

AROs recorded on the Duke Energy Carolinas and Duke Energy Progress Consolidated Balance Sheets at December 31, 2018, and December 31, 2017, include the legal obligation for closure of coal ash basins and the disposal of related ash as a result of the Coal Ash Act, the EPA CCR rule and other agreements. The Coal Ash Act includes a variance procedure for compliance deadlines and other issues surrounding the management of CCR and CCR surface impoundments and prohibits cost recovery in customer rates for unlawful discharge of ash impoundment waters occurring after January 1, 2014. The Coal Ash Act leaves the decision on cost recovery determinations related to closure of ash impoundments to the normal ratemaking processes before utility regulatory commissions.

Consistent with the requirements of the Coal Ash Act, Duke Energy has submitted comprehensive site assessments and groundwater corrective plans to NCDEQ and will submit to NCDEQ site-specific coal ash impoundment closure plans in advance of closure. In support of these closure plans, on November 15, 2018, Duke Energy submitted options analyses, groundwater modeling and net environmental benefits analyses for six sites potentially eligible for closure by cap in place. Separately, on November 16, 2018, Duke Energy submitted a variance application requesting that NCDEQ grant a six-month extension to the closure deadline applicable to the CCR surface impoundments at the Sutton Plant. NCDEQ held a public meeting on January 14, 2019 at which it announced that an extension would be appropriate. A final decision on the variance application is expected by April 15, 2019.

The current plans for each site are listed in the table below.

NCDEQ Risk Classification	Plants/Current Closure Date	Expected Closure Method
Low	Allen – December 31, 2029 ^(a) Belews Creek – December 31, 2029 ^(a) Buck – December 31, 2029 ^{(a)(b)} Rogers – December 31, 2029 ^(a) Marshall – December 31, 2029 ^(a) Mayo – December 31, 2029 ^(a) Roxboro – December 31, 2029 ^(a)	Combination of a cap system and a groundwater monitoring system, or for selected sites, conversion for beneficial use.
Medium	H.F. Lee – December 31, 2029 ^(b) Cape Fear – December 31, 2029 ^(b) Weatherspoon – August 1, 2028	Excavation, which may include conversion of the basin to a lined industrial landfill, transferring coal ash to an engineered landfill, or for selected sites, conversion for beneficial use.
High	Sutton – August 1, 2019 Riverbend – August 1, 2019 Dan River – August 1, 2019 Asheville – August 1, 2022	Excavation, which may include a combination of transferring coal ash to an engineered landfill or for selected sites, conversion for beneficial use.

- (a) In November 2018, the closure deadline for these basins was extended to December 31, 2029 as a result of the completion of certain dam improvement projects and alternative drinking water source projects by October 15, 2018.
- (b) The Coal Ash Act requires the installation and operation of three large-scale coal ash beneficiation projects to produce reprocessed ash for use in the concrete industry. Duke Energy has selected the Buck, H.F. Lee and Cape Fear plants for these projects. Closure at these sites is required to be completed no later than December 31, 2029.

For further information on ash basins and recovery, see Notes 4 and 9 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively.

Estimated Cost and Impacts of Rulemakings

Duke Energy will incur capital expenditures to comply with the environmental regulations and rules discussed above. The following table, as of December 31, 2018, provides five-year estimated costs, excluding AFUDC, of new control equipment that may need to be installed on existing power plants primarily to comply with the Coal Ash Act requirements for conversion to dry disposal of bottom ash and fly ash, CWA 316(b) and ELGs through December 31, 2023. The table excludes ash basin closure costs recorded in Asset retirement obligations on the Consolidated Balance Sheets. For more information related to AROs, see Note 9 to the Consolidated Financial Statements.

(in millions)	Five-Year Estimated Costs
Duke Energy	\$ 420
Duke Energy Carolinas	185
Progress Energy	200
Duke Energy Progress	80
Duke Energy Florida	120
Duke Energy Ohio	15
Duke Energy Indiana	20

The Duke Energy Registrants also expect to incur increased fuel, purchased power, operation and maintenance and other expenses, in addition to costs for replacement generation for potential coal-fired power plant retirements, as a result of these regulations. Actual compliance costs incurred may be materially different from these estimates due to reasons such as the timing and requirements of EPA regulations and the resolution of legal challenges to the rules. The Duke Energy Registrants intend to seek rate recovery of necessary and prudently incurred costs associated with regulated operations to comply with these regulations.

Other Environmental Regulations

The Duke Energy Registrants are also subject to various federal, state and local regulations regarding air and water quality, hazardous and solid waste disposal and other environmental matters, including the following:

- Clean Water Act
- Steam Effluent Limitation Guidelines
- Cross-State Air Pollution Rule
- Carbon Pollution Standards for New, Modified and Reconstructed Power Plants
- Clean Power Plan/ACE Rule

Duke Energy continues to comply with enacted environmental laws and regulations even as certain of these regulations are in various stages of clarification, revision or legal challenges. The Duke Energy Registrants cannot predict the outcome of these matters.

Section 126 Petitions

On November 16, 2016, the state of Maryland filed a petition with EPA under Section 126 of the Clean Air Act alleging that 19 power plants, including two plants (three units) that Duke Energy Registrants own and operate, contribute to violations of EPA's NAAQS for ozone in the state of Maryland. On March 12, 2018, the state of New York filed a petition with EPA, also under Section 126 of the Clean Air Act alleging that over 60 power plants, including four that Duke Energy Registrants own and operate, contribute to violations of EPA's ozone NAAQS in the state of New York. Both Maryland and New York seek EPA orders requiring the states in which the named power plants operate impose more stringent NO_x emission limitations on the plants. On October 5, 2018, EPA published a final rule denying the Maryland petition. That same day, Maryland appealed EPA's denial of their Section 126 petition to the D.C. Circuit Court. The impact of these petitions could be more stringent requirements for the operation of NO_x emission controls at these plants. The Duke Energy Registrants cannot predict the outcome of these matters.

Global Climate Change

The Duke Energy Registrants' GHG emissions consist primarily of CO₂ and result primarily from operating a fleet of coal-fired and natural gas-fired power plants. In 2018, the Duke Energy Registrants' power plants emitted approximately 105 million tons of CO₂. Future levels of CO₂ emissions will be influenced by variables that include fuel prices, compliance with new or existing regulations, economic conditions that affect electricity demand and the technologies deployed to generate the electricity necessary to meet the customer demand.

The Duke Energy Registrants have taken actions that have resulted in a reduction of CO₂ emissions over time. Actions have included the retirement of 47 coal-fired EGUs with a combined generating capacity of 5,425 MW. Much of that capacity has been replaced with state-of-the-art highly efficient natural gas-fired generation that produces far fewer CO₂ emissions per unit of electricity generated. Duke Energy also has made investments to expand its portfolio of wind and solar projects, increase energy efficiency offerings and invest in its zero-CO₂ emissions hydropower and nuclear plants. These efforts have diversified its system and significantly reduced CO₂ emissions. Between 2005 and 2018, the Duke Energy Registrants have collectively lowered the CO₂ emissions from their electricity generation by 31 percent, which potentially lowers the exposure to any future mandatory CO₂ emission reduction requirements or carbon tax, whether as a result of federal legislation, EPA regulation, state regulation or other as yet unknown emission reduction requirement. Duke Energy will continue to explore the use of currently available and commercially demonstrated technology to reduce CO₂ emissions, including energy efficiency, wind, solar, storage and nuclear. Duke Energy will adjust to evolving and innovative technologies in a way that balances the reliability and affordability that customers expect. Under any future scenario involving mandatory CO₂ limitations, the Duke Energy Registrants would plan to seek recovery of their compliance costs through appropriate regulatory mechanisms.

The Duke Energy Registrants recognize certain groups associate severe weather events with increasing levels of GHGs in the atmosphere and forecast the possibility these weather events could have a material impact on future results of operations should they occur more frequently and with greater severity. However, the uncertain nature of potential changes in extreme weather events (such as increased frequency, duration and severity), the long period of time over which any potential changes might take place and the inability to predict potential changes with any degree of accuracy, make estimating any potential future financial risk to the Duke Energy Registrants' operations impossible.

The Duke Energy Registrants annually, biannually or triennially prepare lengthy, forward-looking IRPs. These detailed, highly technical plans are based on the company's thorough analysis of numerous factors that can impact the cost of producing and delivering electricity that influence long-term resource planning decisions. The IRP process helps to evaluate a range of options, taking into account forecasts of future electricity demand, fuel prices, transmission improvements, new generating capacity, integration of renewables, energy storage, energy efficiency and demand response initiatives. The IRP process also helps evaluate potential environmental and regulatory scenarios to better mitigate policy and economic risks. The IRPs we file with regulators look out 10 to 20 years depending on the jurisdiction.

For a number of years, the Duke Energy Registrants have included a price on CO₂ emissions in their IRP planning process to account for the potential regulation of CO₂ emissions. Incorporating a price on CO₂ emissions in the IRPs allows for the evaluation of existing and future resource needs against potential climate change policy risk in the absence of policy certainty. One of the challenges with using a CO₂ price, especially in the absence of a clear and certain policy, is determining the appropriate price to use. To address this uncertainty and ensure the company remains agile, the Duke Energy Registrants typically use a range of potential CO₂ prices to reflect a range of potential policy outcomes.

The Duke Energy Registrants routinely take steps to reduce the potential impact of severe weather events on their electric distribution systems by modernizing the electric grid through smart meters, storm hardening, self-healing and targeted undergrounding and applying lessons learned from previous storms to restoration efforts. The Duke Energy Registrants' electric generating facilities are designed to withstand extreme weather events without significant damage. The Duke Energy Registrants maintain an inventory of coal and oil on-site to mitigate the effects of any potential short-term disruption in fuel supply so they can continue to provide customers with an uninterrupted supply of electricity.

State Legislation

In July 2017, the North Carolina General Assembly passed House Bill 589, and it was subsequently enacted into law by the governor. The law includes, among other things, overall reform of the application of PURPA for new solar projects in the state, a requirement for the utility to procure approximately 2,600 MW of renewable energy through a competitive bidding process and recovery of costs related to the competitive bidding process through the fuel clause and a competitive procurement rider. The law stipulated certain deadlines for Duke Energy to file for NCUC approval of programs required under the law. Duke Energy has made some regulatory filings since the passage of the law and will continue to implement the requirements of House Bill 589.

In July 2018, Duke Energy issued an RFP for the first tranche of 680 MW. In accordance with the provisions of HB 589, total procurement will be changed based upon how much generation with no economic dispatch or curtailment occurs over the procurement period. Most of this type of generation is solar procured under PURPA. Based upon the current forecasted amount of such generation that will occur over procurement period, Duke Energy estimates the total under HB 589 competitive procurement will be approximately 1,500 to 2,000 MW.

In various states, legislation is being considered to allow third-party sales of electricity. Deregulation or restructuring in the electric industry may result in increased competition and unrecovered costs. The Duke Energy Registrants cannot predict the outcome of these initiatives.

Liquefied Natural Gas Facility

Piedmont Natural Gas plans to build a liquefied natural gas facility in Robeson County, North Carolina. The project is expected to be completed in the summer of 2021 at a cost of \$250 million. Construction will begin in the summer of 2019.

New Accounting Standards

See Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies," for a discussion of the impact of new accounting standards.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

See "Management's Discussion and Analysis of Results of Operations and Financial Condition – Quantitative and Qualitative Disclosures About Market Risk."

FINANCIAL STATEMENTS

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

Duke Energy

Report of Independent Registered Public Accounting Firm	86
Consolidated Statements of Operations	87
Consolidated Statements of Comprehensive Income	88
Consolidated Balance Sheets	89
Consolidated Statements of Cash Flows	90
Consolidated Statements of Changes in Equity	91

Duke Energy Carolinas

Report of Independent Registered Public Accounting Firm	92
Consolidated Statements of Operations and Comprehensive Income	93
Consolidated Balance Sheets	94
Consolidated Statements of Cash Flows	95
Consolidated Statements of Changes in Equity	96

Progress Energy

Report of Independent Registered Public Accounting Firm	97
Consolidated Statements of Operations and Comprehensive Income	98
Consolidated Balance Sheets	99
Consolidated Statements of Cash Flows	100
Consolidated Statements of Changes in Equity	101

Duke Energy Progress

Report of Independent Registered Public Accounting Firm	102
Consolidated Statements of Operations and Comprehensive Income	103
Consolidated Balance Sheets	104
Consolidated Statements of Cash Flows	105
Consolidated Statements of Changes in Equity	106

Duke Energy Florida

Report of Independent Registered Public Accounting Firm	107
Consolidated Statements of Operations and Comprehensive Income	108
Consolidated Balance Sheets	109
Consolidated Statements of Cash Flows	110
Consolidated Statements of Changes in Equity	111

Duke Energy Ohio

Report of Independent Registered Public Accounting Firm	112
Consolidated Statements of Operations and Comprehensive Income	113
Consolidated Balance Sheets	114
Consolidated Statements of Cash Flows	115
Consolidated Statements of Changes in Equity	116

Duke Energy Indiana

Report of Independent Registered Public Accounting Firm	117
Consolidated Statements of Operations and Comprehensive Income	118
Consolidated Balance Sheets	119
Consolidated Statements of Cash Flows	120
Consolidated Statements of Changes in Equity	121

Piedmont

Report of Independent Registered Public Accounting Firm	122
Consolidated Statements of Operations and Comprehensive Income	123
Consolidated Balance Sheets	124
Consolidated Statements of Cash Flows	125
Consolidated Statements of Changes in Equity	126

FINANCIAL STATEMENTS

Combined Notes to Consolidated Financial Statements

Note 1 – Summary of Significant Accounting Policies	127
Note 2 – Acquisitions and Dispositions	137
Note 3 – Business Segments	140
Note 4 – Regulatory Matters	144
Note 5 – Commitments and Contingencies	166
Note 6 – Debt and Credit Facilities	174
Note 7 – Guarantees and Indemnifications	181
Note 8 – Joint Ownership of Generating and Transmission Facilities	182
Note 9 – Asset Retirement Obligations	182
Note 10 – Property, Plant and Equipment	185
Note 11 – Goodwill and Intangible Assets	187
Note 12 – Investments in Unconsolidated Affiliates	189
Note 13 – Related Party Transactions	191
Note 14 – Derivatives and Hedging	192
Note 15 – Investments in Debt and Equity Securities	198
Note 16 – Fair Value Measurements	203
Note 17 – Variable Interest Entities	209
Note 18 – Revenue	213
Note 19 – Common Stock	217
Note 20 – Severance	218
Note 21 – Stock-Based Compensation	219
Note 22 – Employee Benefit Plans	221
Note 23 – Income Taxes	243
Note 24 – Other Income and Expenses, Net	251
Note 25 – Subsequent Events	252
Note 26 – Quarterly Financial Data (Unaudited)	253

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REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholders and the Board of Directors of Duke Energy Corporation

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Corporation and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations, comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2018, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2018, based on criteria established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated February 28, 2019, expressed an unqualified opinion on the Company's internal control over financial reporting.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

We have served as the Company's auditor since 1947.

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FINANCIAL STATEMENTS

**DUKE ENERGY CORPORATION
CONSOLIDATED STATEMENTS OF OPERATIONS**

(in millions, except per share amounts)	Years Ended December 31,		
	2018	2017	2016
Operating Revenues			
Regulated electric	\$ 22,097	\$ 21,177	\$ 21,221
Regulated natural gas	1,773	1,734	863
Nonregulated electric and other	651	654	659
Total operating revenues	24,521	23,565	22,743
Operating Expenses			
Fuel used in electric generation and purchased power	6,831	6,350	6,625
Cost of natural gas	697	632	265
Operation, maintenance and other	6,463	5,944	6,224
Depreciation and amortization	4,074	3,527	3,294
Property and other taxes	1,280	1,233	1,142
Impairment charges	402	282	18
Total operating expenses	19,747	17,968	17,568
(Losses) Gains on Sales of Other Assets and Other, net	(89)	28	27
Operating Income	4,685	5,625	5,202
Other Income and Expenses			
Equity in earnings (losses) of unconsolidated affiliates	83	119	(15)
Other income and expenses, net	399	508	463
Total other income and expenses	482	627	448
Interest Expense	2,094	1,986	1,916
Income From Continuing Operations Before Income Taxes	3,073	4,266	3,734
Income Tax Expense From Continuing Operations	448	1,196	1,156
Income From Continuing Operations	2,625	3,070	2,578
Income (Loss) From Discontinued Operations, net of tax	19	(6)	(408)
Net Income	2,644	3,064	2,170
Less: Net (Loss) Income Attributable to Noncontrolling Interests	(22)	5	18
Net Income Attributable to Duke Energy Corporation	\$ 2,666	\$ 3,059	\$ 2,152
Earnings Per Share – Basic and Diluted			
Income from continuing operations attributable to Duke Energy Corporation common stockholders			
Basic	\$ 3.73	\$ 4.37	\$ 3.71
Diluted	\$ 3.73	\$ 4.37	\$ 3.71
Income (Loss) from discontinued operations attributable to Duke Energy Corporation common stockholders			
Basic	\$ 0.03	\$ (0.01)	\$ (0.60)
Diluted	\$ 0.03	\$ (0.01)	\$ (0.60)
Net income attributable to Duke Energy Corporation common stockholders			
Basic	\$ 3.76	\$ 4.36	\$ 3.11
Diluted	\$ 3.76	\$ 4.36	\$ 3.11
Weighted average shares outstanding			
Basic	708	700	691
Diluted	708	700	691

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

DUKE ENERGY CORPORATION
CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2018	2017	2016
Net Income	\$ 2,644	\$ 3,064	\$ 2,170
Other Comprehensive (Loss) Income, net of tax			
Foreign currency translation adjustments	—	—	694
Pension and OPEB adjustments	(6)	3	(11)
Net unrealized (losses) gains on cash flow hedges	(10)	2	17
Reclassification into earnings from cash flow hedges	6	8	13
Unrealized (losses) gains on available-for-sale securities	(3)	13	2
Other Comprehensive (Loss) Income, net of tax	(13)	26	715
Comprehensive Income	2,631	3,090	2,885
Less: Comprehensive (Loss) Income Attributable to Noncontrolling Interests	(22)	5	20
Comprehensive Income Attributable to Duke Energy Corporation	\$ 2,653	\$ 3,085	\$ 2,865

See Notes to Consolidated Financial Statements

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DUKE ENERGY CORPORATION

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 442	\$ 358
Receivables (net of allowance for doubtful accounts of \$16 at 2018 and \$14 at 2017)	962	779
Receivables of VIEs (net of allowance for doubtful accounts of \$55 at 2018 and \$54 at 2017)	2,172	1,995
Inventory	3,084	3,250
Regulatory assets (includes \$52 at 2018 and \$51 at 2017 related to VIEs)	2,005	1,437
Other (includes \$162 at 2018 and \$214 at 2017 related to VIEs)	1,049	634
Total current assets	9,714	8,453
Property, Plant and Equipment		
Cost	134,458	127,507
Accumulated depreciation and amortization	(43,126)	(41,537)
Generation facilities to be retired, net	362	421
Net property, plant and equipment	91,694	86,391
Other Noncurrent Assets		
Goodwill	19,303	19,396
Regulatory assets (includes \$1,041 at 2018 and \$1,091 at 2017 related to VIEs)	13,617	12,442
Nuclear decommissioning trust funds	6,720	7,097
Investments in equity method unconsolidated affiliates	1,409	1,175
Other	2,935	2,960
Total other noncurrent assets	43,984	43,070
Total Assets	\$ 145,392	\$ 137,914
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 3,487	\$ 3,043
Notes payable and commercial paper	3,410	2,163
Taxes accrued	577	551
Interest accrued	559	525
Current maturities of long-term debt (includes \$227 at 2018 and \$225 at 2017 related to VIEs)	3,406	3,244
Asset retirement obligations	919	689
Regulatory liabilities	598	402
Other	2,085	1,865
Total current liabilities	15,041	12,482
Long-Term Debt (includes \$3,998 at 2018 and \$4,306 at 2017 related to VIEs)	51,123	49,035
Other Noncurrent Liabilities		
Deferred income taxes	7,806	6,621
Asset retirement obligations	9,548	9,486
Regulatory liabilities	14,834	15,330
Accrued pension and other post-retirement benefit costs	988	1,103
Investment tax credits	568	539
Other (includes \$212 at 2018 and \$241 at 2017 related to VIEs)	1,650	1,581
Total other noncurrent liabilities	35,394	34,660
Commitments and Contingencies		
Equity		
Common stock, \$0.001 par value, 2 billion shares authorized; 727 million shares outstanding at 2018 and 700 million shares outstanding at 2017	1	1
Additional paid-in capital	40,795	38,792
Retained earnings	3,113	3,013
Accumulated other comprehensive loss	(92)	(67)
Total Duke Energy Corporation stockholders' equity	43,817	41,739
Noncontrolling interests	17	(2)
Total equity	43,834	41,737
Total Liabilities and Equity	\$ 145,392	\$ 137,914

See Notes to Consolidated Financial Statements

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 2,644	\$ 3,064	\$ 2,170
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion (including amortization of nuclear fuel)	4,696	4,046	3,880
Equity component of AFUDC	(221)	(237)	(200)
Losses (Gains) on sales of other assets	88	(33)	477
Impairment charges	402	282	212
Deferred income taxes	1,079	1,433	900
Equity in (earnings) losses of unconsolidated affiliates	(83)	(119)	15
Accrued pension and other post-retirement benefit costs	61	8	21
Contributions to qualified pension plans	(141)	(19)	(155)
Payments for asset retirement obligations	(533)	(571)	(608)
Payment for the disposal of other assets	(105)	—	—
Other rate case adjustments	37	—	—
Provision for rate refunds	425	—	—
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	22	18	34
Receivables	(345)	(83)	(372)
Inventory	156	268	272
Other current assets	(721)	(400)	(174)
Increase (decrease) in			
Accounts payable	479	(204)	296
Taxes accrued	23	149	236
Other current liabilities	270	(482)	182
Other assets	(1,008)	(436)	(186)
Other liabilities	(39)	(60)	(137)
Net cash provided by operating activities	7,186	6,624	6,863
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(9,389)	(8,052)	(7,901)
Contributions to equity method investments	(416)	(414)	(307)
Acquisitions, net of cash acquired	—	(13)	(4,778)
Return of investment capital	137	281	1
Purchases of debt and equity securities	(3,762)	(4,071)	(5,153)
Proceeds from sales and maturities of debt and equity securities	3,747	4,098	5,236
Proceeds from the sales of discontinued operations and other assets, net of cash divested	41	—	1,418
Other	(418)	(271)	(44)
Net cash used in investing activities	(10,060)	(8,442)	(11,528)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the:			
Issuance of long-term debt	5,299	6,909	9,238
Issuance of common stock	1,838	—	731
Payments for the redemption of long-term debt	(2,906)	(2,316)	(1,923)
Proceeds from the issuance of short-term debt with original maturities greater than 90 days	472	319	2,081
Payments for the redemption of short-term debt with original maturities greater than 90 days	(282)	(272)	(2,166)
Notes payable and commercial paper	981	(409)	(1,362)
Dividends paid	(2,471)	(2,450)	(2,332)
Other	29	1	(16)
Net cash provided by financing activities	2,960	1,782	4,251
Changes in cash and cash equivalents included in assets held for sale	—	—	474
Net increase (decrease) in cash, cash equivalents, and restricted cash	86	(36)	60
Cash, cash equivalents, and restricted cash at beginning of period	505	541	481
Cash, cash equivalents, and restricted cash at end of period	\$ 591	\$ 505	\$ 541
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 2,086	\$ 1,963	\$ 1,794
Cash (received from) paid for income taxes	(266)	4	229
Significant non-cash transactions:			
Accrued capital expenditures	1,112	1,032	1,000
Non-cash dividends	107	—	—

See Notes to Consolidated Financial Statements

DUKE ENERGY CORPORATION
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Duke Energy Corporation Stockholders' Accumulated Other Comprehensive Loss											
	Common Stock Shares	Common Stock	Additional Paid-in Capital	Retained Earnings	Foreign Currency Translation Adjustments	Net Losses on Cash Flow Hedges	Net Unrealized Gains (Losses) on Available- for-Sale- Securities	Pension and OPEB Adjustments	Total Duke Energy Corporation Stockholders' Equity	Noncontrolling Interests	Total Equity	
Balance at December 31, 2015	688	\$ 1	\$ 37,968	\$ 2,564	\$ (692)	\$ (50)	\$ (3)	\$ (61)	\$ 39,727	\$ 44	\$ 39,771	
Net income	—	—	—	2,152	—	—	—	—	2,152	18	2,170	
Other comprehensive income (loss) ^(a)	—	—	—	—	692	30	2	(11)	713	2	715	
Common stock issuances, including dividend reinvestment and employee benefits	12	—	773	—	—	—	—	—	773	—	773	
Common stock dividends	—	—	—	(2,332)	—	—	—	—	(2,332)	—	(2,332)	
Distributions to noncontrolling interest in subsidiaries	—	—	—	—	—	—	—	—	—	(6)	(6)	
Other ^(b)	—	—	—	—	—	—	—	—	—	(50)	(50)	
Balance at December 31, 2016	700	\$ 1	\$ 38,741	\$ 2,384	\$ —	\$ (20)	\$ (1)	\$ (72)	\$ 41,033	\$ 8	\$ 41,041	
Net income	—	—	—	3,059	—	—	—	—	3,059	5	3,064	
Other comprehensive income	—	—	—	—	—	10	13	3	26	—	26	
Common stock issuances, including dividend reinvestment and employee benefits	—	—	51	—	—	—	—	—	51	—	51	
Common stock dividends	—	—	—	(2,450)	—	—	—	—	(2,450)	—	(2,450)	
Distributions to noncontrolling interest in subsidiaries	—	—	—	—	—	—	—	—	—	(2)	(2)	
Other ^(c)	—	—	—	20	—	—	—	—	20	(13)	7	
Balance at December 31, 2017	700	\$ 1	\$ 38,792	\$ 3,013	\$ —	\$ (10)	\$ 12	\$ (69)	\$ 41,739	\$ (2)	\$ 41,737	
Net income	—	—	—	2,666	—	—	—	—	2,666	(22)	2,644	
Other comprehensive (loss) income	—	—	—	—	—	(4)	(3)	(6)	(13)	—	(13)	
Common stock issuances, including dividend reinvestment and employee benefits	27	—	2,003	—	—	—	—	—	2,003	—	2,003	
Common stock dividends	—	—	—	(2,578)	—	—	—	—	(2,578)	—	(2,578)	
Distributions to noncontrolling interests in subsidiaries	—	—	—	—	—	—	—	—	—	(1)	(1)	
Other ^(d)	—	—	—	12	—	—	(12)	—	—	42	42	
Balance at December 31, 2018	727	\$ 1	\$ 40,795	\$ 3,113	\$ —	\$ (14)	\$ (3)	\$ (75)	\$ 43,817	\$ 17	\$ 43,834	

- (a) Foreign Currency Translation Adjustments amount includes \$620 million of cumulative adjustment realized as a result of the sale of the Latin American generation business. See Note 2 to the Consolidated Financial Statements.
- (b) Noncontrolling Interests amount is primarily related to the sale of the Latin American generation business. See Note 2 to the Consolidated Financial Statements.
- (c) Retained Earnings relates to a cumulative-effect adjustment due to implementation of a new accounting standard related to stock-based compensation and the associated income taxes. See Note 1 to the Consolidated Financial Statements for additional information. Noncontrolling Interests relates to the purchase of remaining interest in REC Solar.
- (d) Amounts in Retained Earnings and Accumulated Other Comprehensive Loss represent a cumulative-effect adjustment due to implementation of a new accounting standard related to Financial Instruments Classification and Measurement. See Note 1 for more information. Amount in Noncontrolling Interests primarily relates to tax equity financing activity in the Commercial Renewables segment.

See Notes to Consolidated Financial Statements

REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of Directors of Duke Energy Carolinas, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Carolinas, LLC and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2018, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

We have served as the Company's auditor since 1947.

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FINANCIAL STATEMENTS

DUKE ENERGY CAROLINAS, LLC
CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2018	2017	2016
Operating Revenues	\$ 7,300	\$ 7,302	\$ 7,322
Operating Expenses			
Fuel used in electric generation and purchased power	1,821	1,822	1,797
Operation, maintenance and other	2,130	2,021	2,158
Depreciation and amortization	1,201	1,090	1,075
Property and other taxes	295	281	276
Impairment charges	192	—	1
Total operating expenses	5,639	5,214	5,307
(Losses) Gains on Sales of Other Assets and Other, net	(1)	1	(5)
Operating Income	1,660	2,089	2,010
Other Income and Expenses, net	153	199	214
Interest Expense	439	422	424
Income Before Income Taxes	1,374	1,866	1,800
Income Tax Expense	303	652	634
Net Income	\$ 1,071	\$ 1,214	\$ 1,166
Other Comprehensive Income, net of tax			
Reclassification into earnings from cash flow hedges	1	2	2
Other Comprehensive Income, net of tax	1	2	2
Comprehensive Income	\$ 1,072	\$ 1,216	\$ 1,168

See Notes to Consolidated Financial Statements

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Step 13 2021

FINANCIAL STATEMENTS

**DUKE ENERGY CAROLINAS, LLC
CONSOLIDATED BALANCE SHEETS**

(in millions)	December 31,	
	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 33	\$ 16
Receivables (net of allowance for doubtful accounts of \$2 at 2018 and 2017)	219	200
Receivables of VIEs (net of allowance for doubtful accounts of \$7 at 2018 and 2017)	699	640
Receivables from affiliated companies	182	95
Inventory	948	971
Regulatory assets	520	299
Other	72	19
Total current assets	2,673	2,240
Property, Plant and Equipment		
Cost	44,741	42,939
Accumulated depreciation and amortization	(15,496)	(15,063)
Net property, plant and equipment	29,245	27,876
Other Noncurrent Assets		
Regulatory assets	3,457	2,853
Nuclear decommissioning trust funds	3,558	3,772
Other	1,027	979
Total other noncurrent assets	8,042	7,604
Total Assets	\$ 39,960	\$ 37,720
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 988	\$ 842
Accounts payable to affiliated companies	230	209
Notes payable to affiliated companies	439	104
Taxes accrued	171	234
Interest accrued	102	108
Current maturities of long-term debt	6	1,205
Asset retirement obligations	290	337
Regulatory liabilities	199	126
Other	571	486
Total current liabilities	2,996	3,651
Long-Term Debt	10,633	8,598
Long-Term Debt Payable to Affiliated Companies	300	300
Other Noncurrent Liabilities		
Deferred income taxes	3,689	3,413
Asset retirement obligations	3,659	3,273
Regulatory liabilities	5,999	6,231
Accrued pension and other post-retirement benefit costs	99	95
Investment tax credits	231	232
Other	671	566
Total other noncurrent liabilities	14,348	13,810
Commitments and Contingencies		
Equity		
Member's equity	11,689	11,368
Accumulated other comprehensive loss	(6)	(7)
Total equity	11,683	11,361
Total Liabilities and Equity	\$ 39,960	\$ 37,720

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

**DUKE ENERGY CAROLINAS, LLC
CONSOLIDATED STATEMENTS OF CASH FLOWS**

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 1,071	\$ 1,214	\$ 1,166
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization (including amortization of nuclear fuel)	1,487	1,409	1,382
Equity component of AFUDC	(73)	(106)	(102)
Losses (Gains) on sales of other assets	1	(1)	5
Impairment charges	192	—	1
Deferred income taxes	305	410	470
Accrued pension and other post-retirement benefit costs	4	(4)	4
Contributions to qualified pension plans	(46)	—	(43)
Payments for asset retirement obligations	(230)	(271)	(287)
Provision for rate refunds	182	—	—
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	2	9	5
Receivables	(86)	(9)	(76)
Receivables from affiliated companies	(87)	68	(56)
Inventory	25	78	215
Other current assets	(161)	7	67
Increase (decrease) in			
Accounts payable	168	23	(69)
Accounts payable to affiliated companies	21	(38)	18
Taxes accrued	(65)	86	187
Other current liabilities	89	(161)	63
Other assets	(179)	(49)	20
Other liabilities	(90)	(31)	6
Net cash provided by operating activities	2,530	2,634	2,976
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(2,706)	(2,524)	(2,220)
Purchases of debt and equity securities	(1,810)	(2,124)	(2,832)
Proceeds from sales and maturities of debt and equity securities	1,810	2,128	2,832
Notes receivable from affiliated companies	—	66	97
Other	(147)	(109)	(83)
Net cash used in investing activities	(2,853)	(2,563)	(2,206)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	1,983	569	1,587
Payments for the redemption of long-term debt	(1,205)	(116)	(356)
Notes payable to affiliated companies	335	104	—
Distributions to parent	(750)	(625)	(2,000)
Other	(23)	(1)	—
Net cash provided by (used in) financing activities	340	(69)	(769)
Net increase in cash and cash equivalents	17	2	1
Cash and cash equivalents at beginning of period	16	14	13
Cash and cash equivalents at end of period	\$ 33	\$ 16	\$ 14
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 452	\$ 398	\$ 393
Cash paid for (received from) income taxes	89	193	(60)
Significant non-cash transactions:			
Accrued capital expenditures	302	315	347

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

DUKE ENERGY CAROLINAS, LLC
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

		Accumulated Other Comprehensive Loss		
	Member's Equity		Net Losses on Cash Flow Hedges	Total Equity
(in millions)				
Balance at December 31, 2015	\$ 11,617	\$	(11)	\$ 11,606
Net income	1,166		—	1,166
Other comprehensive income	—		2	2
Distributions to parent	(2,000)		—	(2,000)
Other	(2)		—	(2)
Balance at December 31, 2016	\$ 10,781	\$	(9)	\$ 10,772
Net income	1,214		—	1,214
Other comprehensive income	—		2	2
Distributions to parent	(625)		—	(625)
Other	(2)		—	(2)
Balance at December 31, 2017	\$ 11,368	\$	(7)	\$ 11,361
Net income	1,071		—	1,071
Other comprehensive income	—		1	1
Distributions to parent	(750)		—	(750)
Balance at December 31, 2018	\$ 11,689	\$	(6)	\$ 11,683

See Notes to Consolidated Financial Statements

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REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of Directors of Progress Energy, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Progress Energy, Inc. and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2018, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

We have served as the Company's auditor since 1930.

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FINANCIAL STATEMENTS

**PROGRESS ENERGY, INC.
CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME**

(in millions)	Years Ended December 31,		
	2018	2017	2016
Operating Revenues	\$ 10,728	\$ 9,783	\$ 9,853
Operating Expenses			
Fuel used in electric generation and purchased power	3,976	3,417	3,644
Operation, maintenance and other	2,613	2,301	2,458
Depreciation and amortization	1,619	1,285	1,213
Property and other taxes	529	503	487
Impairment charges	87	156	7
Total operating expenses	8,824	7,662	7,809
Gains on Sales of Other Assets and Other, net	24	26	25
Operating Income	1,928	2,147	2,069
Other Income and Expenses, net	165	209	186
Interest Expense	842	824	689
Income From Continuing Operations Before Income Taxes	1,251	1,532	1,566
Income Tax Expense From Continuing Operations	218	264	527
Income From Continuing Operations	1,033	1,268	1,039
Income From Discontinued Operations, net of tax	—	—	2
Net Income	1,033	1,268	1,041
Less: Net Income Attributable to Noncontrolling Interests	6	10	10
Net Income Attributable to Parent	\$ 1,027	\$ 1,258	\$ 1,031
Net Income	\$ 1,033	\$ 1,268	\$ 1,041
Other Comprehensive Income, net of tax			
Pension and OPEB adjustments	5	4	1
Net unrealized gain on cash flow hedges	6	5	—
Reclassification into earnings from cash flow hedges	—	—	8
Unrealized (losses) gains on available-for-sale securities	(1)	4	1
Other Comprehensive Income, net of tax	10	13	10
Comprehensive Income	1,043	1,281	1,051
Less: Comprehensive Income Attributable to Noncontrolling Interests	6	10	10
Comprehensive Income Attributable to Parent	\$ 1,037	\$ 1,271	\$ 1,041

See Notes to Consolidated Financial Statements

PROGRESS ENERGY, INC.

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 67	\$ 40
Receivables (net of allowance for doubtful accounts of \$5 at 2018 and \$4 at 2017)	220	123
Receivables of VIEs (net of allowance for doubtful accounts of \$8 at 2018 and \$7 at 2017)	909	780
Receivables from affiliated companies	168	31
Notes receivable from affiliated companies	—	240
Inventory	1,459	1,592
Regulatory assets (includes \$52 at 2018 and \$51 at 2017 related to VIEs)	1,137	741
Other (includes \$39 at 2018 and \$44 at 2017 related to VIEs)	125	334
Total current assets	4,085	3,881
Property, Plant and Equipment		
Cost	50,260	47,323
Accumulated depreciation and amortization	(16,398)	(15,857)
Generation facilities to be retired, net	362	421
Net property, plant and equipment	34,224	31,887
Other Noncurrent Assets		
Goodwill	3,655	3,655
Regulatory assets (includes \$1,041 at 2018 and \$1,091 at 2017 related to VIEs)	6,564	6,010
Nuclear decommissioning trust funds	3,162	3,324
Other	974	931
Total other noncurrent assets	14,355	13,920
Total Assets	\$ 52,664	\$ 49,688
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 1,172	\$ 1,006
Accounts payable to affiliated companies	360	251
Notes payable to affiliated companies	1,235	805
Taxes accrued	109	101
Interest accrued	246	212
Current maturities of long-term debt (includes \$53 at 2018 and 2017 related to VIEs)	1,672	771
Asset retirement obligations	514	295
Regulatory liabilities	280	213
Other	821	729
Total current liabilities	6,409	4,383
Long-Term Debt (includes \$1,636 at 2018 and \$1,689 at 2017 related to VIEs)	17,089	16,916
Long-Term Debt Payable to Affiliated Companies	150	150
Other Noncurrent Liabilities		
Deferred income taxes	3,941	3,502
Asset retirement obligations	4,897	5,119
Regulatory liabilities	5,049	5,306
Accrued pension and other post-retirement benefit costs	521	545
Other	351	302
Total other noncurrent liabilities	14,759	14,774
Commitments and Contingencies		
Equity		
Common stock, \$0.01 par value, 100 shares authorized and outstanding at 2018 and 2017	—	—
Additional paid-in capital	9,143	9,143
Retained earnings	5,131	4,350
Accumulated other comprehensive loss	(20)	(25)
Total Progress Energy, Inc. stockholder's equity	14,254	13,468
Noncontrolling interests	3	(3)
Total equity	14,257	13,465
Total Liabilities and Equity	\$ 52,664	\$ 49,688

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

PROGRESS ENERGY, INC.
CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 1,033	\$ 1,268	\$ 1,041
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion (including amortization of nuclear fuel)	1,987	1,516	1,435
Equity component of AFUDC	(104)	(92)	(76)
Gains on sales of other assets	(24)	(28)	(34)
Impairment charges	87	156	7
Deferred income taxes	358	703	532
Accrued pension and other post-retirement benefit costs	24	(28)	(24)
Contributions to qualified pension plans	(45)	—	(43)
Payments for asset retirement obligations	(230)	(248)	(270)
Other rate case adjustments	37	—	—
Provision for rate refunds	122	—	—
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	18	—	42
Receivables	(207)	(89)	7
Receivables from affiliated companies	(137)	71	211
Inventory	121	125	35
Other current assets	(12)	(397)	50
Increase (decrease) in			
Accounts payable	217	(260)	252
Accounts payable to affiliated companies	109	(97)	37
Taxes accrued	8	17	15
Other current liabilities	129	(166)	(42)
Other assets	(913)	(300)	(248)
Other liabilities	(34)	(98)	(36)
Net cash provided by operating activities	2,544	2,053	2,891
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(3,854)	(3,152)	(3,306)
Asset Acquisitions	—	—	(10)
Purchases of debt and equity securities	(1,753)	(1,806)	(2,143)
Proceeds from sales and maturities of debt and equity securities	1,769	1,824	2,187
Net proceeds from sales of other assets	20	—	—
Proceeds from insurance	—	7	58
Proceeds from the sale of nuclear fuel	—	20	20
Notes receivable from affiliated companies	240	(160)	(80)
Other	(182)	(86)	47
Net cash used in investing activities	(3,760)	(3,353)	(3,227)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	1,833	2,118	2,375
Payments for the redemption of long-term debt	(771)	(813)	(327)
Notes payable to affiliated companies	430	100	444
Dividends to parent	(250)	(124)	(2,098)
Other	(1)	(4)	(3)
Net cash provided by financing activities	1,241	1,277	391
Net increase (decrease) in cash, cash equivalents, and restricted cash	25	(23)	55
Cash, cash equivalents, and restricted cash at beginning of period	87	110	55
Cash, cash equivalents, and restricted cash at end of period	\$ 112	\$ 87	\$ 110
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 798	\$ 773	\$ 673
Cash received from income taxes	(348)	(146)	(187)
Significant non-cash transactions:			
Accrued capital expenditures	478	391	317
Equitization of certain notes payable to affiliates	—	1,047	—
Dividend to parent related to a legal entity restructuring	—	547	—

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

PROGRESS ENERGY, INC.

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Additional Paid-in Capital	Retained Earnings	Accumulated Other Comprehensive Loss			Total Progress Energy, Inc. Stockholder's Equity	Noncontrolling Interests	Total Equity
			Net Losses on Cash Flow Hedges	Net Unrealized Gains (Losses) on Available-for- Sale Securities	Pension and OPEB Adjustments			
Balance at December 31, 2015	\$ 8,092	\$ 4,831	\$ (31)	\$ —	\$ (17)	\$ 12,875	\$ (22)	\$ 12,853
Net income	—	1,031	—	—	—	1,031	10	1,041
Other comprehensive income	—	—	8	1	1	10	—	10
Distributions to noncontrolling interests	—	—	—	—	—	—	(1)	(1)
Dividends to parent	—	(2,098)	—	—	—	(2,098)	—	(2,098)
Other	2	—	—	—	—	2	—	2
Balance at December 31, 2016	\$ 8,094	\$ 3,764	\$ (23)	\$ 1	\$ (16)	\$ 11,820	\$ (13)	\$ 11,807
Net income	—	1,258	—	—	—	1,258	10	1,268
Other comprehensive income	—	—	5	4	4	13	—	13
Dividends to parent ^(a)	—	(672)	—	—	—	(672)	—	(672)
Equitization of certain notes payable to affiliates	1,047	—	—	—	—	1,047	—	1,047
Other	2	—	—	—	—	2	—	2
Balance at December 31, 2017	\$ 9,143	\$ 4,350	\$ (18)	\$ 5	\$ (12)	\$ 13,468	\$ (3)	\$ 13,465
Net income	—	1,027	—	—	—	1,027	6	1,033
Other comprehensive income (loss)	—	—	6	(1)	5	10	—	10
Distributions to noncontrolling interests	—	—	—	—	—	—	(1)	(1)
Dividends to parent	—	(250)	—	—	—	(250)	—	(250)
Other ^(b)	—	4	—	(5)	—	(1)	1	—
Balance at December 31, 2018	\$ 9,143	\$ 5,131	\$ (12)	\$ (1)	\$ (7)	\$ 14,254	\$ 3	\$ 14,257

(a) Includes a \$547 million non-cash dividend related to a legal entity restructuring.

(b) Amounts in Retained Earnings and Accumulated Other Comprehensive Loss represent a cumulative-effect adjustment due to implementation of a new accounting standard related to Financial Instruments Classification and Measurement. See Note 1 for more information.

See Notes to Consolidated Financial Statements

REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of Directors of Duke Energy Progress, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Progress, LLC and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2018, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

We have served as the Company's auditor since 1930.

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FINANCIAL STATEMENTS

DUKE ENERGY PROGRESS, LLC
CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2018	2017	2016
Operating Revenues	\$ 5,699	\$ 5,129	\$ 5,277
Operating Expenses			
Fuel used in electric generation and purchased power	1,892	1,609	1,830
Operation, maintenance and other	1,578	1,439	1,565
Depreciation and amortization	991	725	703
Property and other taxes	155	156	156
Impairment charges	33	19	1
Total operating expenses	4,649	3,948	4,255
Gains on Sales of Other Assets and Other, net	9	4	3
Operating Income	1,059	1,185	1,025
Other Income and Expenses, net	87	115	132
Interest Expense	319	293	257
Income Before Income Taxes	827	1,007	900
Income Tax Expense	160	292	301
Net Income and Comprehensive Income	\$ 667	\$ 715	\$ 599

See Notes to Consolidated Financial Statements

DUKE ENERGY PROGRESS, LLC

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 23	\$ 20
Receivables (net of allowance for doubtful accounts of \$2 at 2018 and \$1 at 2017)	75	56
Receivables of VIEs (net of allowance for doubtful accounts of \$5 at 2018 and 2017)	547	459
Receivables from affiliated companies	23	3
Inventory	954	1,017
Regulatory assets	703	352
Other	62	97
Total current assets	2,387	2,004
Property, Plant and Equipment		
Cost	31,459	29,583
Accumulated depreciation and amortization	(11,423)	(10,903)
Generation facilities to be retired, net	362	421
Net property, plant and equipment	20,398	19,101
Other Noncurrent Assets		
Regulatory assets	4,111	3,507
Nuclear decommissioning trust funds	2,503	2,588
Other	612	599
Total other noncurrent assets	7,226	6,694
Total Assets	\$ 30,011	\$ 27,799
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 660	\$ 402
Accounts payable to affiliated companies	278	179
Notes payable to affiliated companies	294	240
Taxes accrued	53	64
Interest accrued	116	102
Current maturities of long-term debt	603	3
Asset retirement obligations	509	295
Regulatory liabilities	178	139
Other	408	376
Total current liabilities	3,099	1,800
Long-Term Debt	7,451	7,204
Long-Term Debt Payable to Affiliated Companies	150	150
Other Noncurrent Liabilities		
Deferred income taxes	2,119	1,883
Asset retirement obligations	4,311	4,378
Regulatory liabilities	3,955	3,999
Accrued pension and other post-retirement benefit costs	237	248
Investment tax credits	142	143
Other	106	45
Total other noncurrent liabilities	10,870	10,696
Commitments and Contingencies		
Equity		
Member's Equity	8,441	7,949
Total Liabilities and Equity	\$ 30,011	\$ 27,799

See Notes to Consolidated Financial Statements

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Sep 13 2021

DUKE ENERGY PROGRESS, LLC
CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 667	\$ 715	\$ 599
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization (including amortization of nuclear fuel)	1,183	936	907
Equity component of AFUDC	(57)	(47)	(50)
Gains on sales of other assets	(9)	(5)	(6)
Impairment charges	33	19	1
Deferred income taxes	236	384	384
Accrued pension and other post-retirement benefit costs	15	(20)	(32)
Contributions to qualified pension plans	(25)	—	(24)
Payments for asset retirement obligations	(195)	(192)	(212)
Other rate case adjustments	37	—	—
Provisions for rate refunds	122	—	—
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	5	(4)	4
Receivables	(107)	(58)	(17)
Receivables from affiliated companies	(20)	2	11
Inventory	63	59	12
Other current assets	(201)	(75)	84
Increase (decrease) in			
Accounts payable	219	(230)	181
Accounts payable to affiliated companies	99	(48)	37
Taxes accrued	(11)	(39)	90
Other current liabilities	46	(131)	114
Other assets	(484)	(53)	(163)
Other liabilities	12	(18)	12
Net cash provided by operating activities	1,628	1,195	1,932
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(2,220)	(1,715)	(1,733)
Purchases of debt and equity securities	(1,236)	(1,249)	(1,658)
Proceeds from sales and maturities of debt and equity securities	1,206	1,207	1,615
Net proceeds from the sales of other assets	20	—	—
Proceeds from insurance	—	4	—
Notes receivable from affiliated companies	—	165	(165)
Other	(115)	(55)	26
Net cash used in investing activities	(2,345)	(1,643)	(1,915)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	845	812	505
Payments for the redemption of long-term debt	(3)	(470)	(15)
Notes payable to affiliated companies	54	240	(209)
Distributions to parent	(175)	(124)	(300)
Other	(1)	(1)	(2)
Net cash provided by (used in) financing activities	720	457	(21)
Net increase (decrease) in cash and cash equivalents	3	9	(4)
Cash and cash equivalents at beginning of period	20	11	15
Cash and cash equivalents at end of period	\$ 23	\$ 20	\$ 11
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 303	\$ 291	\$ 248
Cash (received from) paid for income taxes	(112)	59	(287)
Significant non-cash transactions:			
Accrued capital expenditures	220	191	147

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

DUKE ENERGY PROGRESS, LLC
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)		Member's Equity
Balance at December 31, 2015	\$	7,059
Net income		599
Distribution to parent		(300)
Balance at December 31, 2016	\$	7,358
Net income		715
Distribution to parent		(124)
Balance at December 31, 2017	\$	7,949
Net income		667
Distribution to parent		(175)
Balance at December 31, 2018	\$	8,441

See Notes to Consolidated Financial Statements

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REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of Directors of Duke Energy Florida, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Florida, LLC and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2018, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

We have served as the Company's auditor since 2001.

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FINANCIAL STATEMENTS

DUKE ENERGY FLORIDA, LLC
CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2018	2017	2016
Operating Revenues	\$ 5,021	\$ 4,646	\$ 4,568
Operating Expenses			
Fuel used in electric generation and purchased power	2,085	1,808	1,814
Operation, maintenance and other	1,025	853	884
Depreciation and amortization	628	560	509
Property and other taxes	374	347	333
Impairment charges	54	138	6
Total operating expenses	4,166	3,706	3,546
Gains on Sales of Other Assets and Other, net	1	1	—
Operating Income	856	941	1,022
Other Income and Expenses, net	86	96	63
Interest Expense	287	279	212
Income Before Income Taxes	655	758	873
Income Tax Expense	101	46	322
Net Income	\$ 554	\$ 712	\$ 551
Other Comprehensive (Loss) Income, net of tax			
Unrealized (losses) gains on available-for-sale securities	(1)	3	1
Other Comprehensive (Loss) Income, net of tax	(1)	3	1
Comprehensive Income	\$ 553	\$ 715	\$ 552

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

**DUKE ENERGY FLORIDA, LLC
CONSOLIDATED BALANCE SHEETS**

(in millions)	December 31,	
	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 36	\$ 13
Receivables (net of allowance for doubtful accounts of \$3 at 2018 and 2017)	143	65
Receivables of VIEs (net of allowance for doubtful accounts of \$3 at 2018 and \$2 at 2017)	362	321
Receivables from affiliated companies	28	2
Notes receivable from affiliated companies	—	313
Inventory	504	574
Regulatory assets (includes \$52 at 2018 and \$51 at 2017 related to VIEs)	434	389
Other (includes \$39 at 2018 and \$40 at 2017 related to VIEs)	46	86
Total current assets	1,553	1,763
Property, Plant and Equipment		
Cost	18,792	17,730
Accumulated depreciation and amortization	(4,968)	(4,947)
Net property, plant and equipment	13,824	12,783
Other Noncurrent Assets		
Regulatory assets (includes \$1,041 at 2018 and \$1,091 at 2017 related to VIEs)	2,454	2,503
Nuclear decommissioning trust funds	659	736
Other	311	284
Total other noncurrent assets	3,424	3,523
Total Assets	\$ 18,801	\$ 18,069
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 511	\$ 602
Accounts payable to affiliated companies	91	74
Notes payable to affiliated companies	108	—
Taxes accrued	74	34
Interest accrued	75	56
Current maturities of long-term debt (includes \$53 at 2018 and 2017 related to VIEs)	270	768
Asset retirement obligations	5	—
Regulatory liabilities	102	74
Other	406	334
Total current liabilities	1,642	1,942
Long-Term Debt (includes \$1,336 at 2018 and \$1,389 at 2017 related to VIEs)	7,051	6,327
Other Noncurrent Liabilities		
Deferred income taxes	1,986	1,761
Asset retirement obligations	586	742
Regulatory liabilities	1,094	1,307
Accrued pension and other post-retirement benefit costs	254	264
Other	93	108
Total other noncurrent liabilities	4,013	4,182
Commitments and Contingencies		
Equity		
Member's equity	6,097	5,614
Accumulated other comprehensive income	(2)	4
Total equity	6,095	5,618
Total Liabilities and Equity	\$ 18,801	\$ 18,069

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

**DUKE ENERGY FLORIDA, LLC
CONSOLIDATED STATEMENTS OF CASH FLOWS**

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 554	\$ 712	\$ 551
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion	793	570	516
Equity component of AFUDC	(47)	(45)	(26)
Gains on sales of other assets	(1)	(1)	—
Impairment charges	54	138	6
Deferred income taxes	159	245	224
Accrued pension and other post-retirement benefit costs	5	(13)	2
Contributions to qualified pension plans	(20)	—	(20)
Payments for asset retirement obligations	(35)	(56)	(58)
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	7	5	38
Receivables	(100)	(38)	23
Receivables from affiliated companies	(26)	—	21
Inventory	58	66	23
Other current assets	59	(138)	(86)
Increase (decrease) in			
Accounts payable	(1)	(32)	71
Accounts payable to affiliated companies	17	(51)	9
Taxes accrued	40	1	(117)
Other current liabilities	82	(37)	(149)
Other assets	(428)	(229)	(84)
Other liabilities	(61)	(82)	(53)
Net cash provided by operating activities	1,109	1,015	891
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(1,634)	(1,437)	(1,583)
Purchases of debt and equity securities	(517)	(557)	(485)
Proceeds from sales and maturities of debt and equity securities	563	617	572
Proceeds from insurance	—	4	58
Proceeds from the sale of nuclear fuel	—	20	20
Notes receivable from affiliated companies	313	(313)	—
Other	(65)	(31)	21
Net cash used in investing activities	(1,340)	(1,697)	(1,397)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	988	1,306	1,870
Payments for the redemption of long-term debt	(769)	(342)	(12)
Notes payable to affiliated companies	108	(297)	(516)
Distribution to parent	(75)	—	(775)
Other	1	(1)	—
Net cash provided by financing activities	253	666	567
Net increase (decrease) in cash, cash equivalents, and restricted cash	22	(16)	61
Cash, cash equivalents, and restricted cash at beginning of period	53	69	8
Cash, cash equivalents, and restricted cash at end of period	\$ 75	\$ 53	\$ 69
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 270	\$ 274	\$ 208
Cash (received from) paid for income taxes	(120)	(197)	216
Significant non-cash transactions:			
Accrued capital expenditures	258	199	170

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

DUKE ENERGY FLORIDA, LLC
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

		Accumulated Other Comprehensive Income (Loss)		
		Net Unrealized Gains (Losses) on		
(in millions)	Member's Equity	Available-for- Sale Securities	Total Equity	
Balance at December 31, 2015	\$ 5,121	\$ —	\$ 5,121	
Net income	551	—	551	
Other comprehensive income	—	1	1	
Distribution to parent	(775)	—	(775)	
Other	2	—	2	
Balance at December 31, 2016	\$ 4,899	\$ 1	\$ 4,900	
Net income	712	—	712	
Other comprehensive income	—	3	3	
Other	3	—	3	
Balance at December 31, 2017	\$ 5,614	\$ 4	\$ 5,618	
Net income	554	—	554	
Other comprehensive loss	—	(1)	(1)	
Distribution to parent	(75)	—	(75)	
Other ^(a)	4	(5)	(1)	
Balance at December 31, 2018	\$ 6,097	\$ (2)	\$ 6,095	

(a) Amounts represent a cumulative-effect adjustment due to implementation of a new accounting standard related to Financial Instruments Classification and Measurement. See Note 1 for more information.

See Notes to Consolidated Financial Statements

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REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of Directors of Duke Energy Ohio, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Ohio, Inc. and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2018, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

We have served as the Company's auditor since 2002.

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FINANCIAL STATEMENTS

DUKE ENERGY OHIO, INC.

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2018	2017	2016
Operating Revenues			
Regulated electric	\$ 1,450	\$ 1,373	\$ 1,410
Regulated natural gas	506	508	503
Nonregulated electric and other	1	42	31
Total operating revenues	1,957	1,923	1,944
Operating Expenses			
Fuel used in electric generation and purchased power – regulated	412	369	442
Fuel used in electric generation and purchased power – nonregulated	—	58	51
Cost of natural gas	113	107	103
Operation, maintenance and other	480	530	514
Depreciation and amortization	268	261	233
Property and other taxes	290	278	258
Impairment charges	—	1	—
Total operating expenses	1,563	1,604	1,601
(Losses) Gains on Sales of Other Assets and Other, net	(106)	1	2
Operating Income	288	320	345
Other Income and Expenses, net	23	23	11
Interest Expense	92	91	86
Income From Continuing Operations Before Income Taxes	219	252	270
Income Tax Expense From Continuing Operations	43	59	78
Income From Continuing Operations	176	193	192
(Loss) Income From Discontinued Operations, net of tax	—	(1)	36
Net Income and Comprehensive Income	\$ 176	\$ 192	\$ 228

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

DUKE ENERGY OHIO, INC.
CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 21	\$ 12
Receivables (net of allowance for doubtful accounts of \$2 at 2018 and \$3 at 2017)	102	68
Receivables from affiliated companies	114	133
Notes receivable from affiliated companies	—	14
Inventory	126	133
Regulatory assets	33	49
Other	24	39
Total current assets	420	448
Property, Plant and Equipment		
Cost	9,360	8,732
Accumulated depreciation and amortization	(2,717)	(2,691)
Net property, plant and equipment	6,643	6,041
Other Noncurrent Assets		
Goodwill	920	920
Regulatory assets	531	445
Other	41	21
Total other noncurrent assets	1,492	1,386
Total Assets	\$ 8,555	\$ 7,875
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 316	\$ 313
Accounts payable to affiliated companies	78	62
Notes payable to affiliated companies	274	29
Taxes accrued	202	190
Interest accrued	22	21
Current maturities of long-term debt	551	3
Asset retirement obligations	6	3
Regulatory liabilities	57	36
Other	74	71
Total current liabilities	1,580	728
Long-Term Debt	1,589	2,039
Long-Term Debt Payable to Affiliated Companies	25	25
Other Noncurrent Liabilities		
Deferred income taxes	817	781
Asset retirement obligations	87	81
Regulatory liabilities	840	891
Accrued pension and other post-retirement benefit costs	79	59
Other	93	108
Total other noncurrent liabilities	1,916	1,920
Commitments and Contingencies		
Equity		
Common stock, \$8.50 par value, 120 million shares authorized; 90 million shares outstanding at 2018 and 2017	762	762
Additional paid-in capital	2,776	2,670
Accumulated deficit	(93)	(269)
Total equity	3,445	3,163
Total Liabilities and Equity	\$ 8,555	\$ 7,875

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

DUKE ENERGY OHIO, INC.
CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 176	\$ 192	\$ 228
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion	271	265	237
Equity component of AFUDC	(11)	(11)	(6)
Losses (Gains) on sales of other assets	106	(1)	(2)
Impairment charges	—	1	—
Deferred income taxes	25	90	55
Accrued pension and other post-retirement benefit costs	3	2	6
Contributions to qualified pension plans	—	(4)	(5)
Payments for asset retirement obligations	(3)	(7)	(5)
Provision for rate refunds	24	—	—
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	—	—	(2)
Receivables	(33)	2	(4)
Receivables from affiliated companies	19	(4)	(36)
Inventory	7	6	(32)
Other current assets	16	(22)	79
Increase (decrease) in			
Accounts payable	(19)	12	19
Accounts payable to affiliated companies	16	(1)	10
Taxes accrued	12	11	3
Other current liabilities	14	(19)	(54)
Other assets	(26)	(28)	(35)
Other liabilities	(27)	(5)	(31)
Net cash provided by operating activities	570	479	425
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(827)	(686)	(476)
Notes receivable from affiliated companies	14	80	(94)
Other	(89)	(41)	(30)
Net cash used in investing activities	(902)	(647)	(600)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	99	182	341
Payments for the redemption of long-term debt	(3)	(2)	(53)
Notes payable to affiliated companies	245	13	(87)
Dividends to parent	—	(25)	(25)
Other	—	(1)	(2)
Net cash provided by financing activities	341	167	174
Net increase (decrease) in cash and cash equivalents	9	(1)	(1)
Cash and cash equivalents at beginning of period	12	13	14
Cash and cash equivalents at end of period	\$ 21	\$ 12	\$ 13
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 87	\$ 85	\$ 81
Cash received from income taxes	(6)	(8)	(46)
Significant non-cash transactions:			
Accrued capital expenditures	95	82	83
Non-cash equity contribution from parent	106	—	—

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

DUKE ENERGY OHIO, INC.

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Common Stock	Additional Paid-in Capital	Accumulated Deficit	Total Equity
Balance at December 31, 2015	\$ 762	\$ 2,720	\$ (698)	\$ 2,784
Net income	—	—	228	228
Contribution from parent	—	—	9	9
Dividends to parent	—	(25)	—	(25)
Balance at December 31, 2016	\$ 762	\$ 2,695	\$ (461)	\$ 2,996
Net income	—	—	192	192
Dividends to parent	—	(25)	—	(25)
Balance at December 31, 2017	\$ 762	\$ 2,670	\$ (269)	\$ 3,163
Net income	—	—	176	176
Contribution from parent	—	106	—	106
Balance at December 31, 2018	\$ 762	\$ 2,776	\$ (93)	\$ 3,445

See Notes to Consolidated Financial Statements

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Step 13 2021

REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of Directors of Duke Energy Indiana, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Indiana, LLC and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2018, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

We have served as the Company's auditor since 2002.

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FINANCIAL STATEMENTS

DUKE ENERGY INDIANA, LLC
CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2018	2017	2016
Operating Revenues	\$ 3,059	\$ 3,047	\$ 2,958
Operating Expenses			
Fuel used in electric generation and purchased power	1,000	966	909
Operation, maintenance and other	788	743	727
Depreciation and amortization	520	458	496
Property and other taxes	78	76	58
Impairment charges	30	18	8
Total operating expenses	2,416	2,261	2,198
Gains on Sales of Other Assets and Other, net	—	—	1
Operating Income	643	786	761
Other Income and Expenses, net	45	47	26
Interest Expense	167	178	181
Income Before Income Taxes	521	655	606
Income Tax Expense	128	301	225
Net Income	\$ 393	\$ 354	\$ 381
Other Comprehensive Loss, net of tax			
Reclassification into earnings from cash flow hedges	—	—	(1)
Comprehensive Income	\$ 393	\$ 354	\$ 380

See Notes to Consolidated Financial Statements

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SEP 13 2021

FINANCIAL STATEMENTS

**DUKE ENERGY INDIANA, LLC
CONSOLIDATED BALANCE SHEETS**

(in millions)	December 31,	
	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 24	\$ 9
Receivables (net of allowance for doubtful accounts of \$2 at 2018 and 2017)	52	57
Receivables from affiliated companies	122	125
Inventory	422	450
Regulatory assets	175	165
Other	35	30
Total current assets	830	836
Property, Plant and Equipment		
Cost	15,443	14,948
Accumulated depreciation and amortization	(4,914)	(4,662)
Net property, plant and equipment	10,529	10,286
Other Noncurrent Assets		
Regulatory assets	982	978
Other	194	189
Total other noncurrent assets	1,176	1,167
Total Assets	\$ 12,535	\$ 12,289
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 200	\$ 196
Accounts payable to affiliated companies	83	78
Notes payable to affiliated companies	167	161
Taxes accrued	43	95
Interest accrued	58	57
Current maturities of long-term debt	63	3
Asset retirement obligations	109	54
Regulatory liabilities	25	24
Other	107	104
Total current liabilities	855	772
Long-Term Debt	3,569	3,630
Long-Term Debt Payable to Affiliated Companies	150	150
Other Noncurrent Liabilities		
Deferred income taxes	1,009	925
Asset retirement obligations	613	727
Regulatory liabilities	1,722	1,723
Accrued pension and other post-retirement benefit costs	115	76
Investment tax credits	147	147
Other	16	18
Total other noncurrent liabilities	3,622	3,616
Commitments and Contingencies		
Equity		
Member's Equity	4,339	4,121
Total Liabilities and Equity	\$ 12,535	\$ 12,289

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

**DUKE ENERGY INDIANA, LLC
CONSOLIDATED STATEMENTS OF CASH FLOWS**

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 393	\$ 354	\$ 381
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization, and accretion	524	462	499
Equity component of AFUDC	(32)	(28)	(16)
Impairment charges	30	18	8
Deferred income taxes	95	152	213
Accrued pension and other post-retirement benefit costs	7	2	8
Contributions to qualified pension plans	(8)	—	(9)
Payments for asset retirement obligations	(69)	(45)	(46)
Provision for rate refunds	53	—	—
(Increase) decrease in			
Receivables	7	59	(2)
Receivables from affiliated companies	3	(11)	(43)
Inventory	28	54	66
Other current assets	(25)	28	(67)
Increase (decrease) in			
Accounts payable	37	(86)	8
Accounts payable to affiliated companies	5	4	(9)
Taxes accrued	(52)	64	(4)
Other current liabilities	14	(10)	(81)
Other assets	29	(28)	(27)
Other liabilities	(33)	(20)	(8)
Net cash provided by operating activities	1,006	969	871
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(832)	(840)	(755)
Purchases of debt and equity securities	(48)	(20)	(14)
Proceeds from sales and maturities of debt and equity securities	44	7	11
Proceeds from the sales of other assets	15	—	—
Notes receivable from affiliated companies	—	86	(3)
Other	3	(65)	32
Net cash used in investing activities	(818)	(832)	(729)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	—	—	494
Payments for the redemption of long-term debt	(3)	(5)	(478)
Notes payable to affiliated companies	6	161	—
Distributions to parent	(175)	(300)	(149)
Other	(1)	(1)	(1)
Net cash used in financing activities	(173)	(145)	(134)
Net increase (decrease) in cash and cash equivalents	15	(8)	8
Cash and cash equivalents at beginning of period	9	17	9
Cash and cash equivalents at end of period	\$ 24	\$ 9	\$ 17
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 162	\$ 179	\$ 171
Cash paid for (received from) income taxes	75	117	(7)
Significant non-cash transactions:			
Accrued capital expenditures	88	125	99

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

DUKE ENERGY INDIANA, LLC
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

						Accumulated Other Comprehensive Income	
(in millions)	Common Stock	Additional Paid-in Capital	Retained Earnings	Member's Equity	Net Gains on Cash Flow Hedges	Total Equity	
Balance at December 31, 2015	\$ 1	\$ 1,384	\$ 2,450	\$ —	\$ 1	\$	3,836
Net income	—	—	—	381	—		381
Other comprehensive loss	—	—	—	—	(1)		(1)
Distributions to parent	—	—	—	(149)	—		(149)
Transfer to Member's Equity	(1)	(1,384)	(2,450)	3,835	—		—
Balance at December 31, 2016	\$ —	\$ —	\$ —	\$ 4,067	\$ —	\$	4,067
Net income	—	—	—	354	—		354
Distributions to parent	—	—	—	(300)	—		(300)
Balance at December 31, 2017	\$ —	\$ —	\$ —	\$ 4,121	\$ —	\$	4,121
Net income	—	—	—	393	—		393
Distributions to parent	—	—	—	(175)	—		(175)
Balance at December 31, 2018	\$ —	\$ —	\$ —	\$ 4,339	\$ —	\$	4,339

See Notes to Consolidated Financial Statements

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SEP 13 2021

REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of Directors of Piedmont Natural Gas Company, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Piedmont Natural Gas Company, Inc. and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the periods ended December 31, 2018, December 31, 2017, October 31 2016, and for the two months ended December 31, 2016 and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the periods ended December 31, 2018, December 31, 2017, October 31, 2016, and for the two months ended December 31, 2016, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Emphasis of Matter

As discussed in Note 1 to the financial statements, effective for fiscal year 2016, the Company changed its fiscal year end from October 31 to December 31. This resulted in a two-month transition period beginning November 1, 2016 through December 31, 2016.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

We have served as the Company's auditor since 1951.

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SEP 13 2021

FINANCIAL STATEMENTS

PIEDMONT NATURAL GAS COMPANY, INC.

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		Two Months Ended December 31,		Year Ended October 31,	
	2018	2017	2016		2016	
Operating Revenues						
Regulated natural gas	\$ 1,365	\$ 1,319	\$ 320	\$	1,139	
Nonregulated natural gas and other	10	9	2		10	
Total operating revenues	1,375	1,328	322		1,149	
Operating Expenses						
Cost of natural gas	584	524	144		391	
Operation, maintenance and other	357	304	50		353	
Depreciation and amortization	159	148	23		137	
Property and other taxes	49	48	7		43	
Impairment charges	—	7	—		—	
Total operating expenses	1,149	1,031	224		924	
Operating Income	226	297	98		225	
Equity in earnings (losses) of unconsolidated affiliates	7	(6)	2		29	
Gain on sale of unconsolidated affiliates	—	—	—		133	
Other income and expense, net	14	(11)	(2)		(1)	
Total other income and expenses	21	(17)	—		161	
Interest Expense	81	79	12		69	
Income Before Income Taxes	166	201	86		317	
Income Tax Expense	37	62	32		124	
Net Income	\$ 129	\$ 139	\$ 54	\$	193	
Other Comprehensive Income, net of tax						
Unrealized loss from hedging activities of equity method investments	—	—	—		(3)	
Reclassification into earnings from hedging activities of equity method investments	—	—	—		4	
Other Comprehensive Income, net of tax	—	—	—		1	
Comprehensive Income	\$ 129	\$ 139	\$ 54	\$	194	

See Notes to Consolidated Financial Statements

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Step 13 2021

FINANCIAL STATEMENTS

PIEDMONT NATURAL GAS COMPANY, INC.
CONSOLIDATED BALANCE SHEETS

	December 31,	
(in millions)	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ —	\$ 19
Receivables (net of allowance for doubtful accounts of \$2 at 2018 and 2017)	266	275
Receivables from affiliated companies	22	7
Inventory	70	66
Regulatory assets	54	95
Other	19	52
Total current assets	431	514
Property, Plant and Equipment		
Cost	7,486	6,725
Accumulated depreciation and amortization	(1,575)	(1,479)
Net property, plant and equipment	5,911	5,246
Other Noncurrent Assets		
Goodwill	49	49
Regulatory assets	303	283
Investments in equity method unconsolidated affiliates	64	61
Other	52	65
Total other noncurrent assets	468	458
Total Assets	\$ 6,810	\$ 6,218
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 203	\$ 125
Accounts payable to affiliated companies	38	13
Notes payable to affiliated companies	198	364
Taxes accrued	84	19
Interest accrued	31	31
Current maturities of long-term debt	350	250
Regulatory liabilities	37	3
Other	58	69
Total current liabilities	999	874
Long-Term Debt	1,788	1,787
Other Noncurrent Liabilities		
Deferred income taxes	551	564
Asset retirement obligations	19	15
Regulatory liabilities	1,181	1,141
Accrued pension and other post-retirement benefit costs	4	5
Other	177	170
Total other noncurrent liabilities	1,932	1,895
Commitments and Contingencies		
Equity		
Common stock, no par value: 100 shares authorized and outstanding at 2018 and 2017	1,160	860
Retained earnings	931	802
Total equity	2,091	1,662
Total Liabilities and Equity	\$ 6,810	\$ 6,218

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

PIEDMONT NATURAL GAS COMPANY, INC.
CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		Two Months Ended December 31,	Year Ended October 31,
	2018	2017	2016	2016
CASH FLOWS FROM OPERATING ACTIVITIES				
Net income	\$ 129	\$ 139	\$ 54	\$ 193
Adjustments to reconcile net income to net cash provided by operating activities:				
Depreciation and amortization	161	151	25	148
Gains on sales of other assets	—	—	—	(133)
Impairment charges	—	7	—	—
Deferred income taxes	(31)	154	26	74
Equity in (earnings) losses from unconsolidated affiliates	(7)	6	(2)	(29)
Accrued pension and other post-retirement benefit costs	(4)	23	5	3
Contributions to qualified pension plans	—	(11)	(10)	(14)
Payments for asset retirement obligations	—	—	(1)	(6)
Provision for rate refunds	43	—	—	—
(Increase) decrease in				
Receivables	7	(40)	(157)	12
Receivables from affiliated companies	(15)	—	—	(7)
Inventory	(4)	—	(11)	14
Other current assets	71	(20)	8	(98)
Increase (decrease) in				
Accounts payable	15	(13)	35	6
Accounts payable to affiliated companies	25	5	4	6
Taxes accrued	65	(48)	(2)	38
Other current liabilities	21	(9)	2	28
Other assets	6	7	(7)	(91)
Other liabilities	(4)	(2)	5	180
Net cash provided by (used in) operating activities	478	349	(26)	324
CASH FLOWS FROM INVESTING ACTIVITIES				
Capital expenditures	(721)	(585)	(113)	(522)
Contributions to equity method investments	—	(12)	(12)	(47)
Proceeds from the sales of other assets	—	—	—	175
Other	(10)	(6)	1	5
Net cash used in investing activities	(731)	(603)	(124)	(389)
CASH FLOWS FROM FINANCING ACTIVITIES				
Proceeds from the:				
Issuance of long-term debt	100	250	—	295
Issuance of common stock	—	—	—	122
Payments for the redemption of long-term debt	—	(35)	—	(40)
Notes payable and commercial paper	—	(330)	185	(195)
Notes payable to affiliated companies	(166)	364	—	—
Capital contribution from parent	300	—	—	—
Dividends to parent	—	—	(27)	—
Dividends paid	—	—	—	(114)
Other	—	(1)	—	—
Net cash provided by financing activities	234	248	158	68
Net (decrease) increase in cash and cash equivalents	(19)	(6)	8	3
Cash and cash equivalents at beginning of period	19	25	17	14
Cash and cash equivalents at end of period	\$ —	\$ 19	\$ 25	\$ 17
Supplemental Disclosures:				
Cash paid for interest, net of amount capitalized	\$ 79	\$ 78	\$ 11	\$ 81
Cash received from income taxes	(16)	(12)	—	(25)
Significant non-cash transactions:				
Accrued capital expenditures	96	34	48	63
Transfer of ownership interest of certain equity method investees to parent	—	149	—	—

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

PIEDMONT NATURAL GAS COMPANY, INC.
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

			Accumulated Other Comprehensive Income (Loss)		
			Net Gain on Hedging Activities of Unconsolidated Affiliates		Total Equity
(in millions)	Common Stock	Retained Earnings			
Balance at October 31, 2015	\$ 721	\$ 706	\$ (1)	\$	1,426
Net income	—	193	—		193
Other comprehensive income	—	—	1		1
Common stock issuances, including dividend reinvestment and employee benefits	139	—	—		139
Common stock dividends	—	(114)	—		(114)
Balance at October 31, 2016	\$ 860	\$ 785	\$ —	\$	1,645
Net income	—	54	—		54
Dividends to parent	—	(27)	—		(27)
Balance at December 31, 2016	\$ 860	\$ 812	\$ —	\$	1,672
Net income	—	139	—		139
Transfer of ownership interest of certain equity method investees to parent	—	(149)	—		(149)
Balance at December 31, 2017	\$ 860	\$ 802	\$ —	\$	1,662
Net income	—	129	—		129
Contribution from parent	300	—	—		300
Balance at December 31, 2018	\$ 1,160	\$ 931	\$ —	\$	2,091

See Notes to Consolidated Financial Statements

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Step 13 2021

FINANCIAL STATEMENTS

SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Index to Combined Notes To Consolidated Financial Statements

The notes to the consolidated financial statements are a combined presentation. The following table indicates the registrants to which the notes apply.

Registrant	Applicable Notes																									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Duke Energy	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Duke Energy Carolinas	•		•	•	•	•	•	•	•	•	•		•	•	•	•	•	•		•	•	•	•	•	•	•
Progress Energy	•		•	•	•	•	•		•	•	•		•	•	•	•	•	•		•	•	•	•	•	•	•
Duke Energy Progress	•		•	•	•	•			•	•	•		•	•	•	•	•	•		•	•	•	•	•	•	•
Duke Energy Florida	•		•	•	•	•			•	•	•		•	•	•	•	•	•		•	•	•	•	•	•	•
Duke Energy Ohio	•		•	•	•	•		•	•	•	•		•	•		•	•	•		•	•	•	•	•	•	•
Duke Energy Indiana	•		•	•	•	•		•	•	•	•		•	•	•	•	•	•		•	•	•	•	•	•	•
Piedmont	•	•	•	•	•	•			•	•	•	•	•	•		•		•		•	•	•	•	•	•	•

Tables within the notes may not sum across due to (i) Progress Energy's consolidation of Duke Energy Progress, Duke Energy Florida and other subsidiaries that are not registrants and (ii) subsidiaries that are not registrants but included in the consolidated Duke Energy balances.

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Nature of Operations and Basis of Consolidation

Duke Energy is an energy company headquartered in Charlotte, North Carolina, subject to regulation by the FERC and other regulatory agencies listed below. Duke Energy operates in the U.S. primarily through its direct and indirect subsidiaries. Certain Duke Energy subsidiaries are also subsidiary registrants, including Duke Energy Carolinas; Progress Energy; Duke Energy Progress; Duke Energy Florida; Duke Energy Ohio; Duke Energy Indiana and Piedmont. When discussing Duke Energy's consolidated financial information, it necessarily includes the results of its separate Subsidiary Registrants, which along with Duke Energy, are collectively referred to as the Duke Energy Registrants.

In October 2016, Duke Energy completed the acquisition of Piedmont. Duke Energy's consolidated financial statements include Piedmont's results of operations and cash flows activity subsequent to the acquisition date. Effective November 1, 2016, Piedmont's fiscal year-end was changed from October 31 to December 31, the year-end of Duke Energy. A transition report was filed on Form 10-Q (Form 10-QT) for the transition period from November 1, 2016, to December 31, 2016. See Note 2 for additional information regarding the acquisition.

In December 2016, Duke Energy completed an exit of the Latin American market to focus on its domestic regulated business, which was further bolstered by the acquisition of Piedmont. The sale of the International Energy business segment, excluding an equity method investment in NMC, was completed through two transactions including a sale of assets in Brazil to CTG and a sale of Duke Energy's remaining Latin American assets in Peru, Chile, Ecuador, Guatemala, El Salvador and Argentina to I Squared (collectively, the International Disposal Group). See Note 2 for additional information on the sale of International Energy.

The information in these combined notes relates to each of the Duke Energy Registrants as noted in the Index to Combined Notes to Consolidated Financial Statements. However, none of the Subsidiary Registrants make any representation as to information related solely to Duke Energy or the Subsidiary Registrants of Duke Energy other than itself.

These Consolidated Financial Statements include, after eliminating intercompany transactions and balances, the accounts of the Duke Energy Registrants and subsidiaries or VIEs where the respective Duke Energy Registrants have control. See Note 17 for additional information on VIEs. These Consolidated Financial Statements also reflect the Duke Energy Registrants' proportionate share of certain jointly owned generation and transmission facilities. See Note 8 for additional information on joint ownership. Substantially all of the Subsidiary Registrants' operations qualify for regulatory accounting.

Duke Energy Carolinas is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Carolinas is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Progress Energy is a public utility holding company, which conducts operations through its wholly owned subsidiaries, Duke Energy Progress and Duke Energy Florida. Progress Energy is subject to regulation by FERC and other regulatory agencies listed below.

Duke Energy Progress is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Progress is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Duke Energy Florida is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Florida. Duke Energy Florida is subject to the regulatory provisions of the FPSC, NRC and FERC.

FINANCIAL STATEMENTS

SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Duke Energy Ohio is a regulated public utility primarily engaged in the transmission and distribution of electricity in portions of Ohio and Kentucky, the generation and sale of electricity in portions of Kentucky and the transportation and sale of natural gas in portions of Ohio and Kentucky. Duke Energy Ohio conducts competitive auctions for retail electricity supply in Ohio whereby the energy price is recovered from retail customers and recorded in Operating Revenues on the Consolidated Statements of Operations and Comprehensive Income. Operations in Kentucky are conducted through its wholly owned subsidiary, Duke Energy Kentucky. References herein to Duke Energy Ohio collectively include Duke Energy Ohio and its subsidiaries, unless otherwise noted. Duke Energy Ohio is subject to the regulatory provisions of the PUCO, KPSC and FERC.

Duke Energy Indiana is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Indiana. Duke Energy Indiana is subject to the regulatory provisions of the IURC and FERC.

Piedmont is a regulated public utility primarily engaged in the distribution of natural gas in portions of North Carolina, South Carolina and Tennessee. Piedmont is subject to the regulatory provisions of the NCUC, PSCSC, TPUC and FERC.

Certain prior year amounts have been reclassified to conform to the current year presentation.

Other Current Assets and Liabilities

The following table provides a description of amounts included in Other within Current Assets or Current Liabilities that exceed 5 percent of total Current Assets or Current Liabilities on the Duke Energy Registrants' Consolidated Balance Sheets at either December 31, 2018, or 2017.

(in millions)	Location	December 31,	
		2018	2017
Duke Energy			
Income taxes receivable	Current Assets	\$ 729	\$ 330
Accrued compensation	Current Liabilities	793	757
Duke Energy Carolinas			
Accrued compensation	Current Liabilities	\$ 251	\$ 252
Progress Energy			
Income taxes receivable	Current Assets	\$ 66	\$ 278
Customer deposits	Current Liabilities	345	338
Duke Energy Progress			
Customer deposits	Current Liabilities	\$ 137	\$ 129
Accrued compensation	Current Liabilities	130	132
Duke Energy Florida			
Customer deposits	Current Liabilities	\$ 208	\$ 208
Other accrued liabilities	Current Liabilities	85	16
Duke Energy Ohio			
Income taxes receivable	Current Assets	\$ 13	\$ 36
Customer deposits	Current Liabilities	44	46
Duke Energy Indiana			
Customer deposits	Current Liabilities	\$ 47	\$ 45
Piedmont			
Income taxes receivable	Current Assets	\$ 11	\$ 43

Discontinued Operations

The results of operations of the International Disposal Group have been classified as Discontinued Operations on Duke Energy's Consolidated Statements of Operations. Duke Energy has elected to present cash flows of discontinued operations combined with cash flows of continuing operations. Unless otherwise noted, the notes to these consolidated financial statements exclude amounts related to discontinued operations for all periods presented. See Note 2 for additional information.

Amounts Attributable to Controlling Interests

For the years ended December 31, 2018, and 2017, the Income (Loss) From Discontinued Operations, net of tax on Duke Energy's Consolidated Statements of Operations is entirely attributable to controlling interest. For the year ended December 31, 2016, \$18 million of net income is attributable to noncontrolling interests, which consisted of \$7 million included in Income from Continuing Operations and \$11 million included in Income (Loss) From Discontinued Operations, net of tax on Duke Energy's Consolidated Statement of Operations.

Significant Accounting Policies

Use of Estimates

In preparing financial statements that conform to GAAP, the Duke Energy Registrants must make estimates and assumptions that affect the reported amounts of assets and liabilities, the reported amounts of revenues and expenses and the disclosure of contingent assets and liabilities at the date of the financial statements. Actual results could differ from those estimates.

Regulatory Accounting

The majority of the Duke Energy Registrants' operations are subject to price regulation for the sale of electricity and natural gas by state utility commissions or FERC. When prices are set on the basis of specific costs of the regulated operations and an effective franchise is in place such that sufficient natural gas or electric services can be sold to recover those costs, the Duke Energy Registrants apply regulatory accounting. Regulatory accounting changes the timing of the recognition of costs or revenues relative to a company that does not apply regulatory accounting. As a result, regulatory assets and regulatory liabilities are recognized on the Consolidated Balance Sheets. Regulatory assets and liabilities are amortized consistent with the treatment of the related cost in the ratemaking process. See Note 4 for further information.

Regulatory accounting rules also require recognition of a disallowance (also called "impairment") loss if it becomes probable that part of the cost of a plant under construction (or a recently completed plant or an abandoned plant) will be disallowed for ratemaking purposes and a reasonable estimate of the amount of the disallowance can be made. For example, if a cost cap is set for a plant still under construction, the amount of the disallowance is a result of a judgment as to the ultimate cost of the plant. These disallowances can require judgments on allowed future rate recovery.

When it becomes probable that regulated generation, transmission or distribution assets will be abandoned, the cost of the asset is removed from plant in service. The value that may be retained as a regulatory asset on the balance sheet for the abandoned property is dependent upon amounts that may be recovered through regulated rates, including any return. As such, an impairment charge could be partially or fully offset by the establishment of a regulatory asset if rate recovery is probable. The impairment charge for a disallowance of costs for regulated plants under construction, recently completed or abandoned is based on discounted cash flows.

The Duke Energy Registrants utilize cost-tracking mechanisms, commonly referred to as fuel adjustment clauses or PGA clauses. These clauses allow for the recovery of fuel and fuel-related costs, portions of purchased power, natural gas costs and hedging costs through surcharges on customer rates. The difference between the costs incurred and the surcharge revenues is recorded either as an adjustment to Operating Revenues, Operating Expenses – Fuel used in electric generation or Operating Expenses – Cost of natural gas on the Consolidated Statements of Operations, with an off-setting impact on regulatory assets or liabilities.

FINANCIAL STATEMENTS

SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Cash, Cash Equivalents and Restricted Cash

All highly liquid investments with maturities of three months or less at the date of acquisition are considered cash equivalents. Duke Energy, Progress Energy and Duke Energy Florida have restricted cash balances related primarily to collateral assets, escrow deposits and VIEs. See Note 17 for additional information. Restricted cash amounts are included in Other within Current Assets and Other Noncurrent Assets on the Consolidated Balance Sheets. The following table presents the components of cash, cash equivalents and restricted cash included in the Consolidated Balance Sheets.

	December 31, 2018			December 31, 2017		
	Duke Energy	Progress Energy	Duke Energy Florida	Duke Energy	Progress Energy	Duke Energy Florida
Current Assets						
Cash and cash equivalents	\$ 442	\$ 67	\$ 36	\$ 358	\$ 40	\$ 13
Other	141	39	39	138	40	40
Other Noncurrent Assets						
Other	8	6	—	9	7	—
Total cash, cash equivalents and restricted cash	\$ 591	\$ 112	\$ 75	\$ 505	\$ 87	\$ 53

Inventory

Inventory is used for operations and is recorded primarily using the average cost method. Inventory related to regulated operations is valued at historical cost. Inventory related to nonregulated operations is valued at the lower of cost or market. Materials and supplies are recorded as inventory when purchased and subsequently charged to expense or capitalized to property, plant and equipment when installed. Inventory, including excess or obsolete inventory, is written-down to the lower of cost or market value. Once inventory has been written-down, it creates a new cost basis for the inventory that is not subsequently written-up. Provisions for inventory write-offs were not material at December 31, 2018, and 2017. The components of inventory are presented in the tables below.

	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
(in millions)								
Materials and supplies	\$ 2,238	\$ 731	\$ 1,049	\$ 734	\$ 315	\$ 84	\$ 312	\$ 2
Coal	491	175	192	106	86	14	109	—
Natural gas, oil and other	355	42	218	114	103	28	1	68
Total inventory	\$ 3,084	\$ 948	\$ 1,459	\$ 954	\$ 504	\$ 126	\$ 422	\$ 70

	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
(in millions)								
Materials and supplies	\$ 2,293	\$ 744	\$ 1,118	\$ 774	\$ 343	\$ 82	\$ 309	\$ 2
Coal	603	192	255	139	116	17	139	—
Natural gas, oil and other	354	35	219	104	115	34	2	64
Total inventory	\$ 3,250	\$ 971	\$ 1,592	\$ 1,017	\$ 574	\$ 133	\$ 450	\$ 66

Investments in Debt and Equity Securities

The Duke Energy Registrants classify investments in equity securities as FV-NI and investments in debt securities as AFS. Both categories are recorded at fair value on the Consolidated Balance Sheets. Realized and unrealized gains and losses on securities classified as FV-NI are reported through net income. Unrealized gains and losses for debt securities classified as AFS are included in AOCI until realized, except OTTI's that are included in earnings immediately. At the time gains and losses for debt securities are realized, they are reported through net income. For certain investments of regulated operations, such as substantially all of the NDTF, realized and unrealized gains and losses (including any OTTI's) on debt securities are recorded as a regulatory asset or liability. The credit loss portion of debt securities of nonregulated operations are included in earnings. Investments in debt and equity securities are classified as either current or noncurrent based on management's intent and ability to sell these securities, taking into consideration current market liquidity. See Note 15 for further information.

Goodwill and Intangible Assets

Goodwill

Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont perform annual goodwill impairment tests as of August 31 each year at the reporting unit level, which is determined to be a business segment or one level below. Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont update these tests between annual tests if events or circumstances occur that would more likely than not reduce the fair value of a reporting unit below its carrying value. See Note 11 for further information.

Intangible Assets

Intangible assets are included in Other in Other Noncurrent Assets on the Consolidated Balance Sheets. Generally, intangible assets are amortized using an amortization method that reflects the pattern in which the economic benefits of the intangible asset are consumed or on a straight-line basis if that pattern is not readily determinable. Amortization of intangibles is reflected in Depreciation and amortization on the Consolidated Statements of Operations. Intangible assets are subject to impairment testing and if impaired, the carrying value is accordingly reduced.

Emission allowances permit the holder of the allowance to emit certain gaseous byproducts of fossil fuel combustion, including SO₂ and NO_x. Allowances are issued by the EPA at zero cost and may also be bought and sold via third-party transactions. Allowances allocated to or acquired by the Duke Energy Registrants are held primarily for consumption. Carrying amounts for emission allowances are based on the cost to acquire the allowances or, in the case of a business combination, on the fair value assigned in the allocation of the purchase price of the acquired business. Emission allowances are expensed to Fuel used in electric generation and purchased power on the Consolidated Statements of Operations.

RECs are used to measure compliance with renewable energy standards and are held primarily for consumption. See Note 11 for further information.

Long-Lived Asset Impairments

The Duke Energy Registrants evaluate long-lived assets, excluding goodwill, for impairment when circumstances indicate the carrying value of those assets may not be recoverable. An impairment exists when a long-lived asset's carrying value exceeds the estimated undiscounted cash flows expected to result from the use and eventual disposition of the asset. The estimated cash flows may be based on alternative expected outcomes that are probability weighted. If the carrying value of the long-lived asset is not recoverable based on these estimated future undiscounted cash flows, the carrying value of the asset is written-down to its then-current estimated fair value and an impairment charge is recognized.

The Duke Energy Registrants assess fair value of long-lived assets using various methods, including recent comparable third-party sales, internally developed discounted cash flow analysis and analysis from outside advisors. Triggering events to reassess cash flows may include, but are not limited to, significant changes in commodity prices, the condition of an asset or management's interest in selling the asset.

Equity Method Investment Impairments

Investments in affiliates that are not controlled by Duke Energy, but over which it has significant influence, are accounted for using the equity method. Equity method investments are assessed for impairment whenever events or changes in circumstances indicate that the carrying amount of the investment may not be recoverable. If the decline in value is considered to be other than temporary, the investment is written down to its estimated fair value, which establishes a new cost basis in the investment.

Impairment assessments use a discounted cash flow income approach and include consideration of the severity and duration of any decline in the fair value of the investments. The estimated cash flows may be based on alternative expected outcomes that are probability weighted. Key inputs that involve estimates and significant management judgment include cash flow projections, selection of a discount rate, probability weighting of potential outcomes, and whether any decline in value is considered temporary.

FINANCIAL STATEMENTS

SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Property, Plant and Equipment

Property, plant and equipment are stated at the lower of depreciated historical cost net of any disallowances or fair value, if impaired. The Duke Energy Registrants capitalize all construction-related direct labor and material costs, as well as indirect construction costs such as general engineering, taxes and financing costs. See "Allowance for Funds Used During Construction and Interest Capitalized" for information on capitalized financing costs. Costs of renewals and betterments that extend the useful life of property, plant and equipment are also capitalized. The cost of repairs, replacements and major maintenance projects, which do not extend the useful life or increase the expected output of the asset, are expensed as incurred. Depreciation is generally computed over the estimated useful life of the asset using the composite straight-line method. Depreciation studies are conducted periodically to update composite rates and are approved by state utility commissions and/or the FERC when required. The composite weighted average depreciation rates, excluding nuclear fuel, are included in the table that follows.

	Years Ended December 31,		
	2018	2017	2016
Duke Energy	3.0%	2.8%	2.8%
Duke Energy Carolinas	2.8%	2.8%	2.8%
Progress Energy	2.9%	2.6%	2.7%
Duke Energy Progress	2.9%	2.6%	2.6%
Duke Energy Florida	3.0%	2.8%	2.8%
Duke Energy Ohio	2.8%	2.8%	2.6%
Duke Energy Indiana	3.3%	3.0%	3.1%
Piedmont ^(a)	2.5%	2.3%	

(a) Piedmont's weighted average depreciation rate was 2.4 percent for the annualized two months ended December 31, 2016, and for the year ended October 31, 2016.

In general, when the Duke Energy Registrants retire regulated property, plant and equipment, the original cost plus the cost of retirement, less salvage value and any depreciation already recognized, is charged to accumulated depreciation. However, when it becomes probable the asset will be retired substantially in advance of its original expected useful life or is abandoned, the cost of the asset and the corresponding accumulated depreciation is recognized as a separate asset. If the asset is still in operation, the net amount is classified as Generation facilities to be retired, net on the Consolidated Balance Sheets. If the asset is no longer operating, the net amount is classified in Regulatory assets on the Consolidated Balance Sheets if deemed recoverable (see discussion of long-lived asset impairments above). When it becomes probable an asset will be abandoned, the cost of the asset and accumulated depreciation is reclassified to Regulatory assets on the Consolidated Balance Sheets for amounts recoverable in rates. The carrying value of the asset is based on historical cost if the Duke Energy Registrants are allowed to recover the remaining net book value and a return equal to at least the incremental borrowing rate. If not, an impairment is recognized to the extent the net book value of the asset exceeds the present value of future revenues discounted at the incremental borrowing rate.

When the Duke Energy Registrants sell entire regulated operating units, or retire or sell nonregulated properties, the original cost and accumulated depreciation and amortization balances are removed from Property, Plant and Equipment on the Consolidated Balance Sheets. Any gain or loss is recorded in earnings, unless otherwise required by the applicable regulatory body. See Note 10 for additional information.

Nuclear Fuel

Nuclear fuel is classified as Property, Plant and Equipment on the Consolidated Balance Sheets.

Nuclear fuel in the front-end fuel processing phase is considered work in progress and not amortized until placed in service. Amortization of nuclear fuel is included within Fuel used in electric generation and purchased power on the Consolidated Statements of Operations. Amortization is recorded using the units-of-production method.

Allowance for Funds Used During Construction and Interest Capitalized

For regulated operations, the debt and equity costs of financing the construction of property, plant and equipment are reflected as AFUDC and capitalized as a component of the cost of property, plant and equipment. AFUDC equity is reported on the Consolidated Statements of Operations as non-cash income in Other income and expenses, net. AFUDC debt is reported as a non-cash offset to Interest Expense. After construction is completed, the Duke Energy Registrants are permitted to recover these costs through their inclusion in rate base and the corresponding subsequent depreciation or amortization of those regulated assets.

AFUDC equity, a permanent difference for income taxes, reduces the ETR when capitalized and increases the ETR when depreciated or amortized. See Note 23 for additional information.

For nonregulated operations, interest is capitalized during the construction phase with an offsetting non-cash credit to Interest Expense on the Consolidated Statements of Operations.

Asset Retirement Obligations

AROs are recognized for legal obligations associated with the retirement of property, plant and equipment. Substantially all AROs are related to regulated operations. When recording an ARO, the present value of the projected liability is recognized in the period in which it is incurred, if a reasonable estimate of fair value can be made. The liability is accreted over time. For operating plants, the present value of the liability is added to the cost of the associated asset and depreciated over the remaining life of the asset. For retired plants, the present value of the liability is recorded as a regulatory asset unless determined not to be probable of recovery.

FINANCIAL STATEMENTS

SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

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The present value of the initial obligation and subsequent updates are based on discounted cash flows, which include estimates regarding timing of future cash flows, selection of discount rates and cost escalation rates, among other factors. These estimates are subject to change. Depreciation expense is adjusted prospectively for any changes to the carrying amount of the associated asset. The Duke Energy Registrants receive amounts to fund the cost of the ARO for regulated operations through a combination of regulated revenues and earnings on the NDTF. As a result, amounts recovered in regulated revenues, earnings on the NDTF, accretion expense and depreciation of the associated asset are netted and deferred as a regulatory asset or liability.

Obligations for nuclear decommissioning are based on site-specific cost studies. Duke Energy Carolinas and Duke Energy Progress assume prompt dismantlement of the nuclear facilities after operations are ceased. Duke Energy Florida assumes Crystal River Unit 3 will be placed into a safe storage configuration until eventual dismantlement is completed by 2074. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida also assume that spent fuel will be stored on-site until such time that it can be transferred to a yet to be built DOE facility.

Obligations for closure of ash basins are based upon discounted cash flows of estimated costs for site-specific plans, if known, or probability weightings of the potential closure methods if the closure plans are under development and multiple closure options are being considered and evaluated on a site-by-site basis. See Note 9 for additional information.

Revenue Recognition

Duke Energy recognizes revenue as customers obtain control of promised goods and services in an amount that reflects consideration expected in exchange for those goods or services. Generally, the delivery of electricity and natural gas results in the transfer of control to customers at the time the commodity is delivered and the amount of revenue recognized is equal to the amount billed to each customer, including estimated volumes delivered when billings have not yet occurred. See Note 18 for further information.

Derivatives and Hedging

Derivative and non-derivative instruments may be used in connection with commodity price and interest rate activities, including swaps, futures, forwards and options. All derivative instruments, except those that qualify for the NPNS exception, are recorded on the Consolidated Balance Sheets at fair value. Qualifying derivative instruments may be designated as either cash flow hedges or fair value hedges. Other derivative instruments (undesignated contracts) either have not been designated or do not qualify as hedges. The effective portion of the change in the fair value of cash flow hedges is recorded in AOCI. The effective portion of the change in the fair value of a fair value hedge is offset in net income by changes in the hedged item. For activity subject to regulatory accounting, gains and losses on derivative contracts are reflected as regulatory assets or liabilities and not as other comprehensive income or current period income. As a result, changes in fair value of these derivatives have no immediate earnings impact.

Formal documentation, including transaction type and risk management strategy, is maintained for all contracts accounted for as a hedge. At inception and at least every three months thereafter, the hedge contract is assessed to see if it is highly effective in offsetting changes in cash flows or fair values of hedged items.

See Note 14 for further information.

Captive Insurance Reserves

Duke Energy has captive insurance subsidiaries that provide coverage, on an indemnity basis, to the Subsidiary Registrants as well as certain third parties, on a limited basis, for financial losses, primarily related to property, workers' compensation and general liability. Liabilities include provisions for estimated losses IBNR, as well as estimated provisions for known claims. IBNR reserve estimates are primarily based upon historical loss experience, industry data and other actuarial assumptions. Reserve estimates are adjusted in future periods as actual losses differ from experience.

Duke Energy, through its captive insurance entities, also has reinsurance coverage with third parties for certain losses above a per occurrence and/or aggregate retention. Receivables for reinsurance coverage are recognized when realization is deemed probable.

Unamortized Debt Premium, Discount and Expense

Premiums, discounts and expenses incurred with the issuance of outstanding long-term debt are amortized over the term of the debt issue. The gain or loss on extinguishment associated with refinancing higher-cost debt obligations in the regulated operations is amortized. Amortization expense is recorded as Interest Expense in the Consolidated Statements of Operations and is reflected as Depreciation, amortization and accretion within Net cash provided by operating activities on the Consolidated Statements of Cash Flows.

Premiums, discounts and expenses are presented as an adjustment to the carrying value of the debt amount and included in Long-Term Debt on the Consolidated Balance Sheets presented.

Loss Contingencies and Environmental Liabilities

Contingent losses are recorded when it is probable a loss has occurred and can be reasonably estimated. When a range of the probable loss exists and no amount within the range is a better estimate than any other amount, the minimum amount in the range is recorded. Unless otherwise required by GAAP, legal fees are expensed as incurred.

Environmental liabilities are recorded on an undiscounted basis when environmental remediation or other liabilities become probable and can be reasonably estimated. Environmental expenditures related to past operations that do not generate current or future revenues are expensed. Environmental expenditures related to operations that generate current or future revenues are expensed or capitalized, as appropriate. Certain environmental expenditures receive regulatory accounting treatment and are recorded as regulatory assets.

See Notes 4 and 5 for further information.

Pension and Other Post-Retirement Benefit Plans

Duke Energy maintains qualified, non-qualified and other post-retirement benefit plans. Eligible employees of the Subsidiary Registrants participate in the respective qualified, non-qualified and other post-retirement benefit plans and the Subsidiary Registrants are allocated their proportionate share of benefit costs. See Note 22 for further information, including significant accounting policies associated with these plans.

Severance and Special Termination Benefits

Duke Energy has severance plans under which in general, the longer a terminated employee worked prior to termination the greater the amount of severance benefits. A liability for involuntary severance is recorded once an involuntary severance plan is committed to by management if involuntary severances are probable and can be reasonably estimated. For involuntary severance benefits incremental to its ongoing severance plan benefits, the fair value of the obligation is expensed at the communication date if there are no future service requirements or over the required future service period. Duke Energy also offers special termination benefits under voluntary severance programs. Special termination benefits are recorded immediately upon employee acceptance absent a significant retention period. Otherwise, the cost is recorded over the remaining service period. Employee acceptance of voluntary severance benefits is determined by management based on the facts and circumstances of the benefits being offered. See Note 20 for further information.

Guarantees

If necessary, liabilities are recognized at the time of issuance or material modification of a guarantee for the estimated fair value of the obligation it assumes. Fair value is estimated using a probability-weighted approach. The obligation is reduced over the term of the guarantee or related contract in a systematic and rational method as risk is reduced. Any additional contingent loss for guarantee contracts subsequent to the initial recognition of a liability is accounted for and recognized at the time a loss is probable and can be reasonably estimated. See Note 7 for further information.

Stock-Based Compensation

Stock-based compensation represents costs related to stock-based awards granted to employees and Board of Directors members. Duke Energy recognizes stock-based compensation based upon the estimated fair value of awards, net of estimated forfeitures at the date of issuance. The recognition period for these costs begins at either the applicable service inception date or grant date and continues throughout the requisite service period. Compensation cost is recognized as expense or capitalized as a component of property, plant and equipment. See Note 21 for further information.

Income Taxes

Duke Energy and its subsidiaries file a consolidated federal income tax return and other state and foreign jurisdictional returns. The Subsidiary Registrants are parties to a tax-sharing agreement with Duke Energy. Income taxes recorded represent amounts the Subsidiary Registrants would incur as separate C-Corporations. Deferred income taxes have been provided for temporary differences between GAAP and tax bases of assets and liabilities because the differences create taxable or tax-deductible amounts for future periods. ITCs associated with regulated operations are deferred and amortized as a reduction of income tax expense over the estimated useful lives of the related properties.

Accumulated deferred income taxes are valued using the enacted tax rate expected to apply to taxable income in the periods in which the deferred tax asset or liability is expected to be settled or realized. In the event of a change in tax rates, deferred tax assets and liabilities are remeasured as of the enactment date of the new rate. To the extent that the change in the value of the deferred tax represents an obligation to customers, the impact of the remeasurement is deferred to a regulatory liability. Remaining impacts are recorded in income from continuing operations. If Duke Energy's estimate of the tax effect of reversing temporary differences is not reflective of actual outcomes, is modified to reflect new developments or interpretations of the tax law, revised to incorporate new accounting principles, or changes in the expected timing or manner of the reversal then Duke Energy's results of operations could be impacted.

Tax-related interest and penalties are recorded in Interest Expense and Other Income and Expenses, net in the Consolidated Statements of Operations.

See Note 23 for further information.

Accounting for Renewable Energy Tax Credits

When Duke Energy receives ITCs on wind or solar facilities, it reduces the basis of the property recorded on the Consolidated Balance Sheets by the amount of the ITC and, therefore, the ITC benefit is ultimately recognized in the statement of operations through reduced depreciation expense. Additionally, certain tax credits and government grants result in an initial tax depreciable base in excess of the book carrying value by an amount equal to one half of the ITC. Deferred tax benefits are recorded as a reduction to income tax expense in the period that the basis difference is created.

FINANCIAL STATEMENTS

SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Excise Taxes

Certain excise taxes levied by state or local governments are required to be paid even if not collected from the customer. These taxes are recognized on a gross basis. Otherwise, the taxes are accounted for net. Excise taxes accounted for on a gross basis within both Operating Revenues and Property and other taxes in the Consolidated Statements of Operations were as follows.

(in millions)	Years Ended December 31,		
	2018	2017	2016
Duke Energy	\$ 405	\$ 376	\$ 362
Duke Energy Carolinas	35	36	31
Progress Energy	241	220	213
Duke Energy Progress	19	19	18
Duke Energy Florida	222	201	195
Duke Energy Ohio	105	98	100
Duke Energy Indiana	22	20	17
Piedmont ^(a)	2	2	

(a) Piedmont's excise taxes were immaterial for the two months ended December 31, 2016, and \$2 million for the year ended October 31, 2016.

Dividend Restrictions and Unappropriated Retained Earnings

Duke Energy does not have any legal, regulatory or other restrictions on paying common stock dividends to shareholders. However, as further described in Note 4, due to conditions established by regulators in conjunction with merger transaction approvals, Duke Energy Carolinas, Duke Energy Progress, Duke Energy Ohio, Duke Energy Indiana and Piedmont have restrictions on paying dividends or otherwise advancing funds to Duke Energy. At December 31, 2018, and 2017, an insignificant amount of Duke Energy's consolidated Retained earnings balance represents undistributed earnings of equity method investments.

New Accounting Standards

The new accounting standards adopted for 2018 and 2017 had no material impact on the presentation or results of operations, cash flows or financial position of the Duke Energy Registrants. The following accounting standards were adopted by the Duke Energy Registrants during 2018.

Revenue from Contracts with Customers. In May 2014, the FASB issued revised accounting guidance for revenue recognition from contracts with customers. The core principle of this guidance is that an entity should recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration expected in exchange for those goods or services. The amendments also required disclosure of sufficient information to allow users to understand the nature, amount, timing and uncertainty of revenue and cash flows arising from contracts with customers. The majority of Duke Energy's revenue is in scope of the new guidance. Other revenue arrangements, such as alternative revenue programs and certain PPAs and lighting agreements accounted for as leases, are excluded from the scope of this guidance and, therefore, are accounted for and evaluated for separate presentation and disclosure under other relevant accounting guidance.

Duke Energy elected the modified retrospective method of adoption effective January 1, 2018. Under the modified retrospective method of adoption, prior year reported results are not restated. Adoption of this standard did not result in a material change in the timing or pattern of revenue recognition and a cumulative-effect adjustment was not recorded at January 1, 2018. Duke Energy utilized certain practical expedients including applying this guidance to open contracts at the date of adoption, expensing costs to obtain a contract where the amortization period of the asset would have been one year or less, ignoring the effects of a significant financing when the period between transfer of the good or service and payment is one year or less and recognizing revenues for certain contracts under the invoice practical expedient, which allows revenue recognition to be consistent with invoiced amounts (including unbilled estimates) provided certain criteria are met, including consideration of whether the invoiced amounts reasonably represent the value provided to customers.

In preparation for adoption, Duke Energy identified material revenue streams and reviewed representative contracts and tariffs, including those associated with certain long-term customer contracts such as wholesale contracts, PPAs and other customer arrangements. Duke Energy also monitored the activities of the power and utilities industry revenue recognition task force and has reviewed published positions on specific industry issues to evaluate the impact, if any, on Duke Energy's specific contracts and conclusions. Duke Energy applied the available practical expedient to portfolios of tariffs and contracts with similar characteristics. The vast majority of sales, including energy provided to retail customers, are from tariff offerings that provide natural gas or electricity without a defined contractual term ("at-will"). In most circumstances, revenue from contracts with customers is equivalent to the electricity or natural gas supplied and billed in that period (including unbilled estimates). As such, adoption of the new rules did not result in a shift in the timing or pattern of revenue recognition for such sales. While there have been changes to the captions and descriptions of revenues in Duke Energy's financial statements, the most significant impact as a result of adopting the standard are additional disclosures around the nature, amount, timing and uncertainty of revenues and cash flows arising from contracts with customers. See Note 18 for further information.

Financial Instruments Classification and Measurement. On January 1, 2018, Duke Energy adopted FASB guidance, which revised the classification and measurement of certain financial instruments. The adopted guidance changes the presentation of realized and unrealized gains and losses in certain equity securities that were previously recorded in AOCI. These gains and losses are now recorded in net income. An entity's equity investments that are accounted for under the equity method of accounting are not included within the scope of the new guidance. This guidance had a minimal impact on the Duke Energy Registrant's Consolidated Statements of Operations and Comprehensive Income as changes in the fair value of most of the Duke Energy Registrants' equity securities are deferred as regulatory assets or liabilities pursuant to accounting guidance for regulated operations. The resulting adjustment of unrealized gains and losses in AOCI to retained earnings was immaterial. The primary impact to Duke Energy as a result of implementing this guidance is adding disclosure requirements to present separately the financial assets and financial liabilities by measurement category and form of financial asset. See Notes 15 and 16 for further information.

Statement of Cash Flows. In November 2016, the FASB issued revised accounting guidance to reduce diversity in practice for the presentation and classification of restricted cash on the Consolidated Statements of Cash Flows. Under the updated guidance, restricted cash and restricted cash equivalents are included within beginning-of-period and end-of-period cash and cash equivalents on the Consolidated Statements of Cash Flows. Duke Energy adopted this guidance on January 1, 2018. The guidance has been applied using a retrospective transition method to each period presented. The adoption by Duke Energy of the revised guidance resulted in a change to the amount of Cash, cash equivalents and restricted cash explained when reconciling the beginning-of-period and end-of-period total amounts shown on the Consolidated Statements of Cash Flows. In addition, a reconciliation has been provided of Cash, cash equivalents and restricted cash reported within the Consolidated Balance Sheets that sums to the total of the same such amounts in the Consolidated Statements of Cash Flows. Prior to adoption, the Duke Energy Registrants reflected changes in noncurrent restricted cash within Cash Flows from Investing Activities and changes in current restricted cash within Cash Flows from Operating Activities on the Consolidated Statements of Cash Flows.

In August 2016, the FASB issued accounting guidance addressing diversity in practice for eight separate cash flow issues. The guidance requires entities to classify distributions received from equity method investees using either the cumulative earnings approach or the nature of the distribution approach. Duke Energy adopted this guidance on January 1, 2018, and elected the nature of distribution approach. This approach requires all distributions received to be categorized based on legal documentation describing the nature of the activities generating the distribution. Cash inflows resulting in a return on investment (surplus) will be reflected in Cash Flows from Operating Activities on the Consolidated Statements of Cash Flows, whereas cash inflows resulting in a return of investment (capital) will be reflected in Cash Flows from Investing Activities on the Consolidated Statements of Cash Flows. The guidance has been applied using the retrospective transition method to each period presented. There are no changes to the Consolidated Statements of Cash Flows for the periods presented as a result of this accounting change.

Retirement Benefits. In March 2017, the FASB issued revised accounting guidance for the presentation of net periodic costs related to benefit plans. Previous guidance required the aggregation of all the components of net periodic costs on the Consolidated Statements of Operations and did not require the disclosure of the location of net periodic costs on the Consolidated Statements of Operations. Under the amended guidance, the service cost component of net periodic costs is included within Operating Income within the same line as other compensation expenses. All other components of net periodic costs are outside of Operating Income. In addition, the updated guidance permits only the service cost component of net periodic costs to be capitalized to Inventory or Property, Plant and Equipment. This represents a change from previous guidance, which permitted all components of net periodic costs to be eligible for capitalization.

Duke Energy adopted this guidance on January 1, 2018. Under previous guidance, Duke Energy presented the total non-capitalized net periodic costs within Operation, maintenance and other on the Consolidated Statements of Operations. The adoption of this guidance resulted in a retrospective change to reclassify the presentation of the non-service cost (benefit) components of net periodic costs to Other income and expenses. Duke Energy utilized the practical expedient for retrospective presentation. The change in components of net periodic costs eligible for capitalization is applicable prospectively. Since Duke Energy's service cost component is greater than the total net periodic costs, the change results in increased capitalization of net periodic costs, higher Operation, maintenance and other and higher Other income and expenses. The resulting prospective impact to Duke Energy is an immaterial increase in Net Income. See Note 22 for further information.

For Duke Energy, the retrospective change resulted in higher Operation, maintenance and other and higher Other income and expenses, net, of \$156 million and \$139 million for the years ended December 31, 2017, and 2016, respectively. There was no change to Net Income for these prior periods.

The following new accounting standards have been issued, but have not yet been adopted by the Duke Energy Registrants, as of December 31, 2018.

Leases. In February 2016, the FASB issued revised accounting guidance for leases. The core principle of this guidance is that a lessee should recognize the assets and liabilities that arise from leases on the balance sheet.

For Duke Energy, this guidance is effective for interim and annual periods beginning January 1, 2019. The guidance will be applied using a modified retrospective approach. Under the modified retrospective approach of adoption, prior year reported results are not restated and a cumulative-effect adjustment, if applicable, is recorded to retained earnings at January 1, 2019. Upon adoption, agreements considered leases for the use of certain aircraft, space on communication towers, industrial equipment, fleet vehicles, fuel transportation (barges and railcars), land and office space will be recognized on the balance sheet. Duke Energy expects to adopt the following practical expedients:

FINANCIAL STATEMENTS

SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Practical Expedient	Description	Election
Package of transition practical expedients (for leases commenced prior to adoption date and must be adopted as a package)	Do not need to 1) reassess whether any expired or existing contracts are/or contain leases, 2) reassess the lease classification for any expired or existing leases and 3) reassess initial direct costs for any existing leases.	Duke Energy plans to elect this practical expedient.
Short-term lease expedient (elect by class of underlying asset)	Elect as an accounting policy to not apply the recognition requirements to short-term leases by asset class.	Duke Energy plans to elect this practical expedient for all asset classes.
Lease and non-lease components (elect by class of underlying asset)	Elect as an accounting policy to not separate non-lease components from lease components and instead account for each lease and associated non-lease component as a single lease component by asset class.	Duke Energy plans to elect this practical expedient for all asset classes.
Hindsight expedient (when determining lease term)	Elect to use hindsight to determine the lease term.	Duke Energy plans to elect this practical expedient.
Existing and expired land easements not previously accounted for as leases	Elect to not evaluate existing or expired easements under the new guidance and carry forward current accounting treatment.	Duke Energy plans to elect this practical expedient.
Comparative reporting requirements for initial adoption	Elect to apply transition requirements at adoption date, recognize cumulative effect adjustment to retained earnings in period of adoption and not apply ASC 842 to comparative periods, including disclosures.	Duke Energy plans to elect this practical expedient.
Lessor expedient (elect by class of underlying asset)	Elect as an accounting policy to aggregate non-lease components with the related lease component when specified conditions are met by asset class. Account for the combined component based on its predominant characteristic (revenue or operating lease).	Duke Energy plans to elect this practical expedient for all asset classes.

Duke Energy currently expects to record right-of-use assets and operating lease liabilities on its balance sheet as shown in approximate amounts in the table below:

	(in millions)
Duke Energy	\$ 1,700
Duke Energy Carolinas	150
Progress Energy	850
Duke Energy Progress	400
Duke Energy Florida	450
Duke Energy Ohio	25
Duke Energy Indiana	60
Piedmont	30

In addition to the recognition of operating leases on the balance sheet, Duke Energy expects additional disclosures including both finance and operating lease costs, short-term lease costs, variable lease costs, weighted-average remaining lease term as well as weighted-average discount rates. Duke Energy does not expect a material change to its financial statements from adoption of the new standard for contracts where it is the lessor.

2. ACQUISITIONS AND DISPOSITIONS

ACQUISITIONS

The Duke Energy Registrants consolidate assets and liabilities from acquisitions as of the purchase date and include earnings from acquisitions in consolidated earnings after the purchase date.

2016 Acquisition of Piedmont Natural Gas

On October 3, 2016, Duke Energy acquired all outstanding common stock of Piedmont for a total cash purchase price of \$5.0 billion and assumed Piedmont's existing long-term debt, which had a fair value of approximately \$2.0 billion at the time of the acquisition. The acquisition provides a foundation for Duke Energy to establish a broader, long-term strategic natural gas infrastructure platform to complement its existing natural gas pipeline investments and regulated natural gas business in the Midwest. In connection with the closing of the acquisition, Piedmont became a wholly owned subsidiary of Duke Energy.

FINANCIAL STATEMENTS

ACQUISITIONS AND DISPOSITIONS

Accounting Charges Related to the Acquisition

Duke Energy incurred pretax transaction and integration costs associated with the acquisition of \$84 million, \$103 million and \$439 million for the years ended December 31, 2018, 2017 and 2016, respectively. Amounts recorded on the Consolidated Statements of Operations in 2018 and 2017 were primarily system integration costs of \$78 million and \$71 million, respectively, related to combining the various operational and financial systems of Duke Energy and Piedmont, including a one-time software impairment resulting from planned accounting system and process integration in 2017. A \$7 million charge was recorded within Impairment Charges, with the remaining \$64 million recorded within Operation, maintenance and other in 2017.

Amounts recorded in 2016 include:

- Interest expense of \$234 million related to the acquisition financing, including realized losses on forward-starting interest rate swaps of \$190 million. See Note 14 for additional information on the swaps.
- Charges of \$104 million related to commitments made in conjunction with the transaction, including charitable contributions and a one-time bill credit to Piedmont customers. \$10 million was recorded as a reduction in Operating Revenues, with the remaining \$94 million recorded within Operation, maintenance and other.
- Other transaction and integration costs of \$101 million recorded to Operation, maintenance and other, including professional fees and severance charges.

The majority of transition and integration activities were completed by the end of 2018.

Pro Forma Financial Information

The following unaudited pro forma financial information reflects the combined results of operations of Duke Energy and Piedmont as if the merger had occurred as of January 1, 2015. The pro forma financial information does not include potential cost savings, intercompany revenues, Piedmont's earnings from a certain equity method investment sold immediately prior to the merger or non-recurring transaction and integration costs incurred by Duke Energy and Piedmont. The after-tax transaction and integration costs incurred by Duke Energy and Piedmont were \$279 million for the year ended December 31, 2016.

This information has been presented for illustrative purposes only and is not necessarily indicative of the consolidated results of operations that would have been achieved or the future consolidated results of operations of Duke Energy.

(in millions)	Year Ended December 31,	
	2016	
Operating Revenues	\$	23,504
Net Income Attributable to Duke Energy Corporation		2,442

Piedmont's Earnings

Piedmont's revenues and net income included in Duke Energy's Consolidated Statements of Operations for the year ended December 31, 2016, were \$367 million and \$20 million, respectively. Piedmont's revenues and net income for the year ended December 31, 2016, include the impact of non-recurring transaction costs of \$10 million and \$46 million, respectively.

DISPOSITIONS

For the years ended December 31, 2018, and 2017, the Income (Loss) from Discontinued Operations, net of tax, was immaterial. The following table summarizes the Loss from Discontinued Operations, net of tax recorded on Duke Energy's Consolidated Statements of Operations for the year ended December 31, 2016:

(in millions)	Year Ended December 31,	
	2016	
International Disposal Group	\$	(534)
Other ^(a)		126
Loss from Discontinued Operations, net of tax	\$	(408)

- (a) Amount represents an income tax benefit resulting from immaterial out of period deferred tax liability adjustments for previously sold businesses not related to the International Disposal Group.

2016 Sale of International Energy

In February 2016, Duke Energy announced it had initiated a process to divest the International Disposal Group, and in October 2016, announced it had entered into two separate purchase and sale agreements to execute the divestiture. Both sales closed in December of 2016, resulting in available cash proceeds of \$1.9 billion, excluding transaction costs. Proceeds were primarily used to reduce the Parent debt. Existing favorable tax attributes result in no immediate U.S. federal-level cash tax impacts. Details of each transaction are as follows:

FINANCIAL STATEMENTS

ACQUISITIONS AND DISPOSITIONS

- On December 20, 2016, Duke Energy closed on the sale of its ownership interests in businesses in Argentina, Chile, Ecuador, El Salvador, Guatemala and Peru to I Squared Capital. The assets sold included approximately 2,230 MW of hydroelectric and natural gas generation capacity, transmission infrastructure and natural gas processing facilities. I Squared Capital purchased the businesses for an enterprise value of \$1.2 billion.
- On December 29, 2016, Duke Energy closed on the sale of its Brazilian business, which included approximately 2,090 MW of hydroelectric generation capacity, to CTG for an enterprise value of \$1.2 billion. With the closing of the CTG deal, Duke Energy finalized its exit from the Latin American market.

Assets Held For Sale and Discontinued Operations

As a result of the transactions, the International Disposal Group was classified as held for sale and as discontinued operations in the fourth quarter of 2016. Interest expense directly associated with the International Disposal Group was allocated to discontinued operations. No interest from corporate level debt was allocated to discontinued operations.

The following table presents the results of the International Disposal Group for the year ended December 31, 2016, which are included in Loss from Discontinued Operations, net of tax in Duke Energy's Consolidated Statements of Operations.

(in millions)	Year Ended December 31,	
		2016
Operating Revenues	\$	988
Fuel used in electric generation and purchased power		227
Cost of natural gas		43
Operation, maintenance and other		341
Depreciation and amortization ^(a)		62
Property and other taxes		15
Impairment charges ^(b)		194
(Losses) Gains on Sales of Other Assets and Other, net		(3)
Other Income and Expenses, net		58
Interest Expense		82
Pretax loss on disposal ^(c)		(514)
Loss before income taxes ^(d)		(435)
Income tax expense ^{(e)(f)}		99
Loss from discontinued operations of the International Disposal Group	\$	(534)

- (a) Upon meeting the criteria for assets held for sale, beginning in the fourth quarter of 2016 depreciation expense ceased.
- (b) In conjunction with the advancements of marketing efforts during 2016, Duke Energy performed recoverability tests of the long-lived asset groups of International Energy. As a result, Duke Energy determined the carrying value of certain assets in Central America was not fully recoverable and recorded a pretax impairment charge of \$194 million. The charge represents the excess of carrying value over the estimated fair value of the assets, which was based on a Level 3 Fair Value measurement that was primarily determined from the income approach using discounted cash flows but also considered market information obtained in 2016.
- (c) The pretax loss on disposal includes the recognition of cumulative foreign currency translation losses of \$620 million as of the disposal date. See the Consolidated Statements of Changes in Equity for additional information.
- (d) Pretax Loss attributable to Duke Energy Corporation was \$(445) million for the year ended December 31, 2016.
- (e) Amount includes \$126 million of income tax expense on the disposal, which primarily reflects in-country taxes incurred as a result of the sale. The after-tax loss on disposal was \$640 million.
- (f) Amount includes an income tax benefit of \$95 million. See Note 23, "Income Taxes," for additional information.

Duke Energy has elected not to separately disclose discontinued operations on the Consolidated Statements of Cash Flows. The following table summarizes Duke Energy's cash flows from discontinued operations related to the International Disposal Group.

(in millions)	Year Ended December 31,	
		2016
Cash flows provided by (used in):		
Operating activities	\$	204
Investing activities		(434)

Other Sale Related Matters

During 2017, Duke Energy provided certain transition services to CTG and I Squared Capital. Cash flows related to providing the transition services were not material as of December 31, 2017. All transition services related to the International Disposal Group ended in 2017. Additionally, Duke Energy will reimburse CTG and I Squared Capital for all tax obligations arising from the period preceding consummation on the transactions, and recorded a liability of \$54 million and \$78 million as of December 31, 2018, and 2017, respectively. Duke Energy has not recorded any other liabilities, contingent liabilities or indemnifications related to the International Disposal Group.

FINANCIAL STATEMENTS

BUSINESS SEGMENTS

3. BUSINESS SEGMENTS

Reportable segments are determined based on information used by the chief operating decision-maker in deciding how to allocate resources and evaluate the performance of the business. Duke Energy evaluates segment performance based on segment income. Segment income is defined as income from continuing operations net of income attributable to noncontrolling interests. Segment income, as discussed below, includes intercompany revenues and expenses that are eliminated on the Consolidated Financial Statements. Certain governance costs are allocated to each segment. In addition, direct interest expense and income taxes are included in segment income.

Products and services are sold between affiliate companies and reportable segments of Duke Energy at cost. Segment assets as presented in the tables that follow exclude all intercompany assets.

Duke Energy

Duke Energy's segment structure includes the following segments: Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables.

The Electric Utilities and Infrastructure segment includes Duke Energy's regulated electric utilities in the Carolinas, Florida and the Midwest. The regulated electric utilities conduct operations through the Subsidiary Registrants that are substantially all regulated and, accordingly, qualify for regulatory accounting treatment. Electric Utilities and Infrastructure also includes Duke Energy's commercial electric transmission infrastructure investments.

The Gas Utilities and Infrastructure segment includes Piedmont, Duke Energy's natural gas local distribution companies in Ohio and Kentucky, and Duke Energy's natural gas storage and midstream pipeline investments. Gas Utilities and Infrastructure's operations are substantially all regulated and, accordingly, qualify for regulatory accounting treatment.

The Commercial Renewables segment is primarily comprised of nonregulated utility scale wind and solar generation assets located throughout the U.S.

The remainder of Duke Energy's operations is presented as Other, which is primarily comprised of interest expense on holding company debt, unallocated corporate costs and Duke Energy's wholly owned captive insurance company, Bison. Other also includes Duke Energy's interest in NMC. See Note 12 for additional information on the investment in NMC.

Business segment information is presented in the following tables. Segment assets presented exclude intercompany assets.

(in millions)	Year Ended December 31, 2018						
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total Reportable Segments	Other	Eliminations	Total
Unaffiliated Revenues	\$ 22,242	\$ 1,783	\$ 477	\$ 24,502	\$ 19	\$ —	\$ 24,521
Intersegment Revenues	31	98	—	129	70	(199)	—
Total Revenues	\$ 22,273	\$ 1,881	\$ 477	\$ 24,631	\$ 89	\$ (199)	\$ 24,521
Interest Expense	\$ 1,288	\$ 106	\$ 88	\$ 1,482	\$ 657	\$ (45)	\$ 2,094
Depreciation and amortization	3,523	245	155	3,923	152	(1)	4,074
Equity in earnings (losses) of unconsolidated affiliates	5	27	(1)	31	52	—	83
Income tax expense (benefit) ^(a)	799	78	(147)	730	(282)	—	448
Segment income (loss) ^{(b)(c)(d)(e)}	3,058	274	9	3,341	(694)	—	2,647
Add back noncontrolling interest component							(22)
Income from discontinued operations, net of tax							19
Net income							\$ 2,644
Capital investments expenditures and acquisitions	\$ 8,086	\$ 1,133	\$ 193	\$ 9,412	\$ 256	\$ —	\$ 9,668
Segment assets	125,364	12,361	4,204	141,929	3,275	188	145,392

- (a) All segments include adjustments to the December 31, 2017 estimate of the income tax effects of the Tax Act. Electric Utilities and Infrastructure includes a \$24 million expense, Gas Utilities and Infrastructure includes a \$1 million expense, Commercial Renewables includes a \$3 million benefit and Other includes a \$2 million benefit. See Note 23 for additional information.
- (b) Electric Utilities and Infrastructure includes after-tax regulatory and legislative impairment charges of \$202 million related to rate case orders, settlements or other actions of regulators or legislative bodies and an after-tax impairment charge of \$46 million related to the Citrus County CC at Duke Energy Florida. See Note 4 for additional information.
- (c) Gas Utilities and Infrastructure includes an after-tax impairment charge of \$42 million for the investment in Constitution. See Note 12 for additional information.
- (d) Commercial Renewables includes an impairment charge of \$91 million, net of \$2 million Noncontrolling interests, related to goodwill. See Note 11 for additional information.

FINANCIAL STATEMENTS

BUSINESS SEGMENTS

- (e) Other includes \$65 million of after-tax costs to achieve the Piedmont merger, \$144 million of after-tax severance charges related to a companywide initiative and an \$82 million after-tax loss on the sale of the retired Beckjord Generating Station described below. For additional information, see Note 2 for the Piedmont Merger and Note 20 for severance charges.

In February 2018, Duke Energy sold Beckjord, a nonregulated facility retired during 2014, and recorded a pretax loss of \$106 million within (Losses) Gains on Sales of Other Assets and Other, net and \$1 million within Operation, maintenance and other on Duke Energy's Consolidated Statements of Operations for the year ended December 31, 2018. The sale included the transfer of coal ash basins and other real property and indemnification from any and all potential future claims related to the property, whether arising under environmental laws or otherwise.

(in millions)	Year Ended December 31, 2017						
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total Reportable Segments	Other	Eliminations	Total
Unaffiliated Revenues	\$ 21,300	\$ 1,743	\$ 460	\$ 23,503	\$ 62	\$ —	\$ 23,565
Intersegment Revenues	31	93	—	124	76	(200)	—
Total Revenues	\$ 21,331	\$ 1,836	\$ 460	\$ 23,627	\$ 138	\$ (200)	\$ 23,565
Interest Expense	\$ 1,240	\$ 105	\$ 87	\$ 1,432	\$ 574	\$ (20)	\$ 1,986
Depreciation and amortization	3,010	231	155	3,396	131	—	3,527
Equity in earnings (losses) of unconsolidated affiliates	5	62	(5)	62	57	—	119
Income tax expense (benefit) ^(a)	1,355	116	(628)	843	353	—	1,196
Segment income (loss) ^{(b)(c)(d)}	3,210	319	441	3,970	(905)	—	3,065
Add back noncontrolling interest component							5
Loss from discontinued operations, net of tax							(6)
Net income							\$ 3,064
Capital investments expenditures and acquisitions	\$ 7,024	\$ 907	\$ 92	\$ 8,023	\$ 175	\$ —	\$ 8,198
Segment assets	119,423	11,462	4,156	135,041	2,685	188	137,914

- (a) All segments include impacts of the Tax Act. Electric Utilities and Infrastructure includes a \$231 million benefit, Gas Utilities and Infrastructure includes a \$26 million benefit, Commercial Renewables includes a \$442 million benefit and Other includes charges of \$597 million.
- (b) Electric Utilities and Infrastructure includes after-tax regulatory settlement charges of \$98 million. See Note 4 for additional information.
- (c) Commercial Renewables includes after-tax impairment charges of \$74 million related to certain wind projects and the Energy Management Solutions reporting unit. See Notes 10 and 11 for additional information.
- (d) Other includes \$64 million of after-tax costs to achieve the Piedmont merger. See Note 2 for additional information.

(in millions)	Year Ended December 31, 2016						
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total Reportable Segments	Other	Eliminations	Total
Unaffiliated Revenues	\$ 21,336	\$ 875	\$ 484	\$ 22,695	\$ 48	\$ —	\$ 22,743
Intersegment Revenues	30	26	—	56	69	(125)	—
Total Revenues	\$ 21,366	\$ 901	\$ 484	\$ 22,751	\$ 117	\$ (125)	\$ 22,743
Interest Expense	\$ 1,136	\$ 46	\$ 53	\$ 1,235	\$ 693	\$ (12)	\$ 1,916
Depreciation and amortization	2,897	115	130	3,142	152	—	3,294
Equity in earnings (losses) of unconsolidated affiliates ^(a)	5	19	(82)	(58)	43	—	(15)
Income tax expense (benefit)	1,672	90	(160)	1,602	(446)	—	1,156
Segment income (loss) ^{(b)(c)}	3,040	152	23	3,215	(645)	1	2,571
Add back noncontrolling interest component							7
Loss from discontinued operations, net of tax ^(d)							(408)
Net income							\$ 2,170
Capital investments expenditures and acquisitions ^(e)	\$ 6,649	\$ 5,519	\$ 857	\$ 13,025	\$ 190	\$ —	\$ 13,215
Segment assets	114,993	10,760	4,377	130,130	2,443	188	132,761

FINANCIAL STATEMENTS

BUSINESS SEGMENTS

- (a) Commercial Renewables includes a pretax impairment charge of \$71 million. See Note 12 for additional information.
- (b) Other includes \$329 million of after-tax costs to achieve mergers. See Note 2 for additional information on costs related to the Piedmont merger.
- (c) Other includes after-tax charges of \$57 million related to cost savings initiatives. See Note 20 for further information.
- (d) Includes a loss on sale of the International Disposal Group. Refer to Note 2 for further information.
- (e) Other includes \$26 million of capital investment expenditures related to the International Disposal Group. Gas Utilities and Infrastructure includes the Piedmont acquisition of \$5 billion. See Note 2 for more information on the Piedmont acquisition.

Geographical Information

All assets and revenues from continuing operations are within the U.S.

Major Customers

For the year ended December 31, 2018, revenues from one customer of Duke Energy Progress are \$633 million. Duke Energy Progress has one reportable segment, Electric Utilities and Infrastructure. No other Subsidiary Registrant has an individual customer representing more than 10 percent of its revenues.

Products and Services

The following table summarizes revenues of the reportable segments by type.

(in millions)	Retail Electric	Wholesale Electric	Retail Natural Gas	Other	Total Revenues
2018					
Electric Utilities and Infrastructure	\$ 19,013	\$ 2,345	\$ —	\$ 915	\$ 22,273
Gas Utilities and Infrastructure	—	—	1,817	64	1,881
Commercial Renewables	—	375	—	102	477
Total Reportable Segments	\$ 19,013	\$ 2,720	\$ 1,817	\$ 1,081	\$ 24,631
2017					
Electric Utilities and Infrastructure	\$ 18,177	\$ 2,104	\$ —	\$ 1,050	\$ 21,331
Gas Utilities and Infrastructure	—	—	1,732	104	1,836
Commercial Renewables	—	375	—	85	460
Total Reportable Segments	\$ 18,177	\$ 2,479	\$ 1,732	\$ 1,239	\$ 23,627
2016					
Electric Utilities and Infrastructure	\$ 18,338	\$ 2,095	\$ —	\$ 933	\$ 21,366
Gas Utilities and Infrastructure	—	—	871	30	901
Commercial Renewables	—	303	—	181	484
Total Reportable Segments	\$ 18,338	\$ 2,398	\$ 871	\$ 1,144	\$ 22,751

Duke Energy Ohio

Duke Energy Ohio has two reportable segments, Electric Utilities and Infrastructure and Gas Utilities and Infrastructure.

Electric Utilities and Infrastructure transmits and distributes electricity in portions of Ohio and generates, distributes and sells electricity in portions of Northern Kentucky. Gas Utilities and Infrastructure transports and sells natural gas in portions of Ohio and Northern Kentucky. Both reportable segments conduct operations primarily through Duke Energy Ohio and its wholly owned subsidiary, Duke Energy Kentucky.

The remainder of Duke Energy Ohio's operations is presented as Other. In December 2018, the PUCO approved an order which allows the recovery or credit of revenues and expenses related to Duke Energy Ohio's contractual arrangement to buy power from OVEC power plants. Due to the change in regulatory treatment of these amounts, OVEC revenues and expenses are now reflected in the Electric Utilities and Infrastructure segment. Previously, OVEC revenues and expense were included in Other. These amounts are deemed immaterial for Duke Energy Ohio. Therefore, no prior period amounts were restated. See Note 4 for additional information on the PUCO order.

FINANCIAL STATEMENTS

BUSINESS SEGMENTS

All Duke Energy Ohio assets and revenues from continuing operations are within the U.S.

(in millions)	Year Ended December 31, 2018				
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Total Reportable Segments	Other	Total
Total revenues	\$ 1,450	\$ 506	\$ 1,956	\$ 1	\$ 1,957
Interest expense	\$ 67	\$ 24	\$ 91	\$ 1	\$ 92
Depreciation and amortization	183	85	268	—	268
Income tax expense (benefit)	47	24	71	(28)	43
Segment income (loss)/Net income ^(a)	186	93	279	(103)	176
Capital expenditures	\$ 655	\$ 172	\$ 827	\$ —	\$ 827
Segment assets	5,643	2,874	8,517	38	8,555

(a) Other includes the loss on the sale of Beckjord, see discussion above.

(in millions)	Year Ended December 31, 2017					
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Total Reportable Segments	Other	Eliminations	Total
Total revenues	\$ 1,373	\$ 508	\$ 1,881	\$ 42	\$ —	\$ 1,923
Interest expense	\$ 62	\$ 28	\$ 90	\$ 1	\$ —	\$ 91
Depreciation and amortization	178	83	261	—	—	261
Income tax expense (benefit)	40	39	79	(20)	—	59
Segment income (loss)	138	85	223	(30)	—	193
Loss from discontinued operations, net of tax						(1)
Net income						\$ 192
Capital expenditures	\$ 491	\$ 195	\$ 686	\$ —	\$ —	\$ 686
Segment assets	5,066	2,758	7,824	66	(15)	7,875

(in millions)	Year Ended December 31, 2016					
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Total Reportable Segments	Other	Eliminations	Total
Total revenues	\$ 1,410	\$ 503	\$ 1,913	\$ 31	\$ —	\$ 1,944
Interest expense	\$ 58	\$ 27	\$ 85	\$ 1	\$ —	\$ 86
Depreciation and amortization	151	80	231	2	—	233
Income tax expense (benefit)	55	44	99	(21)	—	78
Segment income (loss)	154	77	231	(39)	—	192
Income from discontinued operations, net of tax						36
Net income						\$ 228
Capital expenditures	\$ 322	\$ 154	\$ 476	\$ —	\$ —	\$ 476
Segment assets	4,782	2,696	7,478	62	(12)	7,528

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FINANCIAL STATEMENTS

REGULATORY MATTERS

4. REGULATORY MATTERS

REGULATORY ASSETS AND LIABILITIES

The Duke Energy Registrants record regulatory assets and liabilities that result from the ratemaking process. See Note 1 for further information.

The following tables present the regulatory assets and liabilities recorded on the Consolidated Balance Sheets of Duke Energy and Progress Energy. See separate tables below for balances by individual registrant.

(in millions)	Duke Energy		Progress Energy	
	December 31,		December 31,	
	2018	2017	2018	2017
Regulatory Assets				
AROs – coal ash	\$ 4,255	\$ 4,025	\$ 2,061	\$ 1,984
AROs – nuclear and other	772	852	601	655
Accrued pension and OPEB	2,654	2,249	1,074	906
Retired generation facilities	445	480	367	386
Debt fair value adjustment	1,099	1,197	—	—
Deferred asset – Lee COLA	383	—	—	—
Storm cost deferrals	1,117	531	953	526
Nuclear asset securitized balance, net	1,093	1,142	1,093	1,142
Hedge costs deferrals	204	234	74	94
Derivatives – natural gas supply contracts	141	142	—	—
Demand side management (DSM)/Energy efficiency (EE)	449	530	256	281
Grid modernization	31	39	—	—
Vacation accrual	213	213	41	42
Deferred fuel and purchased power	838	507	600	349
Nuclear deferral	133	119	46	35
Post-in-service carrying costs (PISCC) and deferred operating expenses	320	366	36	38
Transmission expansion obligation	39	46	—	—
Manufactured gas plant (MGP)	99	91	—	—
Advanced metering infrastructure (AMI)	367	362	127	150
NCEMPA deferrals	50	53	50	53
East Bend deferrals	47	45	—	—
Deferred pipeline integrity costs	65	54	—	—
Amounts due from customers	24	64	—	—
Other	784	538	322	110
Total regulatory assets	15,622	13,879	7,701	6,751
Less: current portion	2,005	1,437	1,137	741
Total noncurrent regulatory assets	\$ 13,617	\$ 12,442	\$ 6,564	\$ 6,010
Regulatory Liabilities				
Costs of removal	\$ 5,421	\$ 5,968	\$ 2,135	\$ 2,537
AROs – nuclear and other	538	806	—	—
Net regulatory liability related to income taxes	8,058	8,113	2,710	2,802
Amounts to be refunded to customers	34	10	—	—
Storm reserve	—	20	—	—
Accrued pension and OPEB	301	146	149	—
Deferred fuel and purchased power	16	47	16	1
Other	1,064	622	319	179
Total regulatory liabilities	15,432	15,732	5,329	5,519
Less: current portion	598	402	280	213
Total noncurrent regulatory liabilities	\$ 14,834	\$ 15,330	\$ 5,049	\$ 5,306

Descriptions of regulatory assets and liabilities summarized in the tables above and below follow. See tables below for recovery and amortization periods at the separate registrants.

AROs – coal ash. Represents deferred depreciation and accretion related to the legal obligation to close ash basins. The costs are deferred until recovery treatment has been determined. See Notes 1 and 9 for additional information.

AROs – nuclear and other. Represents regulatory assets or liabilities, including deferred depreciation and accretion, related to legal obligations associated with the future retirement of property, plant and equipment, excluding amounts related to coal ash. The AROs relate primarily to decommissioning nuclear power facilities. The amounts also include certain deferred gains and losses on NDTF investments. See Notes 1 and 9 for additional information.

Accrued pension and OPEB. Accrued pension and OPEB represent regulatory assets and liabilities related to each of the Duke Energy Registrants' respective shares of unrecognized actuarial gains and losses and unrecognized prior service cost and credit attributable to Duke Energy's pension plans and OPEB plans. The regulatory asset or liability is amortized with the recognition of actuarial gains and losses and prior service cost and credit to net periodic benefit costs for pension and OPEB plans. The accrued pension and OPEB regulatory asset is expected to be recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.

Retired generation facilities. Represents amounts to be recovered for facilities that have been retired and are probable of recovery.

Debt fair value adjustment. Purchase accounting adjustments recorded to state the carrying value of Progress Energy and Piedmont at fair value in connection with the 2012 and 2016 mergers, respectively. Amount is amortized over the life of the related debt.

Net regulatory asset or liability related to income taxes. Amounts for all registrants include regulatory liabilities related primarily to impacts from the Tax Act. See Note 23 for additional information. Amounts have no immediate impact on rate base as regulatory assets are offset by deferred tax liabilities.

Deferred asset – Lee COLA. Represents deferred costs incurred for the canceled Lee nuclear project.

Storm cost deferrals. Represents deferred incremental costs incurred related to extraordinary weather-related events.

Nuclear asset securitized balance, net. Represents the balance associated with Crystal River Unit 3 retirement approved for recovery by the FPSC on September 15, 2015, and the upfront financing costs securitized in 2016 with issuance of the associated bonds. The regulatory asset balance is net of the AFUDC equity portion.

Hedge costs and other deferrals. Amounts relate to unrealized gains and losses on derivatives recorded as a regulatory asset or liability, respectively, until the contracts are settled.

Derivatives – natural gas supply contracts. Represents costs for certain long-dated, fixed quantity forward gas supply contracts, which are recoverable through PGA clauses.

DSM/EE. Deferred costs related to various DSM and EE programs recoverable through various mechanisms.

Grid modernization. Amounts represent deferred depreciation and operating expenses as well as carrying costs on the portion of capital expenditures placed in service but not yet reflected in retail rates as plant in service.

Vacation accrual. Represents vacation entitlement, which is generally recovered in the following year.

Deferred fuel and purchased power. Represents certain energy-related costs that are recoverable or refundable as approved by the applicable regulatory body.

Nuclear deferral. Includes amounts related to levelizing nuclear plant outage costs, which allows for the recognition of nuclear outage expenses over the refueling cycle rather than when the outage occurs, resulting in the deferral of operations and maintenance costs associated with refueling.

Post-in-service carrying costs and deferred operating expenses. Represents deferred depreciation and operating expenses as well as carrying costs on the portion of capital expenditures placed in service but not yet reflected in retail rates as plant in service.

Transmission expansion obligation. Represents transmission expansion obligations related to Duke Energy Ohio's withdrawal from Midcontinent Independent System Operator, Inc. (MISO).

MGP. Represents remediation costs incurred at former MGP sites and the deferral of costs to be incurred at Duke Energy Ohio's East End and West End sites.

AMI. Represents deferred costs related to the installation of AMI meters and remaining net book value of non-AMI meters to be replaced at Duke Energy Carolinas, net book value of existing meters at Duke Energy Florida, Duke Energy Progress and Duke Energy Ohio and expected future recovery of net book value of electromechanical meters that have been replaced with AMI meters at Duke Energy Indiana.

NCEMPA deferrals. Represents retail allocated cost deferrals and returns associated with the additional ownership interest in assets acquired from NCEMPA in 2015.

East Bend deferrals. Represents both deferred operating expenses and deferred depreciation as well as carrying costs on the portion of East Bend that was acquired from Dayton Power and Light and that had been previously operated as a jointly owned facility.

Deferred pipeline integrity costs. Represents pipeline integrity management costs in compliance with federal regulations recovered through a rider mechanism.

Amounts due from customers. Relates primarily to margin decoupling and IMR recovery mechanisms.

Costs of removal. Represents funds received from customers to cover the future removal of property, plant and equipment from retired or abandoned sites as property is retired. Also includes certain deferred gains on NDTF investments.

Amounts to be refunded to customers. Represents required rate reductions to retail customers by the applicable regulatory body.

Storm reserve. Amounts are used to offset future incurred costs for named storms as approved by regulatory commissions.

RESTRICTIONS ON THE ABILITY OF CERTAIN SUBSIDIARIES TO MAKE DIVIDENDS, ADVANCES AND LOANS TO DUKE ENERGY

As a condition to the approval of merger transactions, the NCUC, PSCSC, PUCO, KPSC and IURC imposed conditions on the ability of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Ohio, Duke Energy Kentucky, Duke Energy Indiana and Piedmont to transfer funds to Duke Energy through loans or advances, as well as restricted amounts available to pay dividends to Duke Energy. Certain subsidiaries may transfer funds to the parent by obtaining approval of the respective state regulatory commissions. These conditions imposed restrictions on the ability of the public utility subsidiaries to pay cash dividends as discussed below.

Duke Energy Progress and Duke Energy Florida also have restrictions imposed by their first mortgage bond indentures, which in certain circumstances, limit their ability to make cash dividends or distributions on common stock. Amounts restricted as a result of these provisions were not material at December 31, 2018.

Additionally, certain other subsidiaries of Duke Energy have restrictions on their ability to dividend, loan or advance funds to Duke Energy due to specific legal or regulatory restrictions, including, but not limited to, minimum working capital and tangible net worth requirements.

The restrictions discussed below were not a material amount of Duke Energy's and Progress Energy's net assets at December 31, 2018.

Duke Energy Carolinas

Duke Energy Carolinas must limit cumulative distributions subsequent to mergers to (i) the amount of retained earnings on the day prior to the closing of the mergers, plus (ii) any future earnings recorded.

Duke Energy Progress

Duke Energy Progress must limit cumulative distributions subsequent to the mergers between Duke Energy and Progress Energy and Duke Energy and Piedmont to (i) the amount of retained earnings on the day prior to the closing of the respective mergers, plus (ii) any future earnings recorded.

Duke Energy Ohio

Duke Energy Ohio will not declare and pay dividends out of capital or unearned surplus without the prior authorization of the PUCO. Duke Energy Ohio received FERC and PUCO approval to pay dividends from its equity accounts that are reflective of the amount that it would have in its retained earnings account had push-down accounting for the Cinergy merger not been applied to Duke Energy Ohio's balance sheet. The conditions include a commitment from Duke Energy Ohio that equity, adjusted to remove the impacts of push-down accounting, will not fall below 30 percent of total capital.

Duke Energy Kentucky is required to pay dividends solely out of retained earnings and to maintain a minimum of 35 percent equity in its capital structure.

Duke Energy Indiana

Duke Energy Indiana must limit cumulative distributions subsequent to the merger between Duke Energy and Cinergy to (i) the amount of retained earnings on the day prior to the closing of the merger, plus (ii) any future earnings recorded. In addition, Duke Energy Indiana will not declare and pay dividends out of capital or unearned surplus without prior authorization of the IURC.

Piedmont

Piedmont must limit cumulative distributions subsequent to the acquisition of Piedmont by Duke Energy to (i) the amount of retained earnings on the day prior to the closing of the merger, plus (ii) any future earnings recorded.

RATE-RELATED INFORMATION

The NCUC, PSCSC, FPSC, IURC, PUCO, TPUC and KPSC approve rates for retail electric and natural gas services within their states. The FERC approves rates for electric sales to wholesale customers served under cost-based rates (excluding Ohio and Indiana), as well as sales of transmission service. The FERC also regulates certification and siting of new interstate natural gas pipeline projects.

Duke Energy Carolinas and Duke Energy Progress

Grid Improvement – South Carolina

On June 22, 2018, Duke Energy Carolinas and Duke Energy Progress filed a joint petition with the PSCSC seeking an accounting order authorizing deferral of certain costs incurred in connection with grid reliability, resiliency and modernization work that is being performed under the companies' grid improvement initiative. On October 3, 2018, the PSCSC granted Duke Energy Carolinas' and Duke Energy Progress' joint petition, which authorizes the deferral of these costs until the rate effective dates of each Company's next general rate case.

Hurricane Florence, Hurricane Michael and Winter Storm Diego

In September 2018, Hurricane Florence made landfall and inflicted severe damage to the Duke Energy Carolinas and Duke Energy Progress territories in North Carolina and South Carolina. Approximately 2 million customers were impacted. The companies incurred approximately \$500 million in incremental operation and maintenance expenses (\$70 million and \$430 million for Duke Energy Carolinas and Duke Energy Progress, respectively,) and approximately \$90 million in capital costs (\$5 million and \$85 million for Duke Energy Carolinas and Duke Energy Progress, respectively,) which are included in Net property, plant and equipment on the Consolidated Balance Sheets as of December 31, 2018, resulting from the hurricane restoration efforts. Most of the operation and maintenance expenses are deferred in Regulatory assets within Other Noncurrent Assets on the Consolidated Balance Sheets as of December 31, 2018. The balance of operation and maintenance expenses are included in Operation, maintenance and other on the Consolidated Statements of Operations for the year ended December 31, 2018.

In October 2018, the remnants of Hurricane Michael inflicted severe damage to the Duke Energy Carolinas and Duke Energy Progress territories in North Carolina and South Carolina. Approximately 1 million customers were impacted. The companies incurred approximately \$100 million in incremental operation and maintenance expenses (\$75 million and \$25 million for Duke Energy Carolinas and Duke Energy Progress, respectively,) and approximately \$21 million in capital costs (\$12 million and \$9 million for Duke Energy Carolinas and Duke Energy Progress, respectively,) which are included in Net property, plant and equipment on the Consolidated Balance Sheets as of December 31, 2018, resulting from the hurricane restoration efforts. Most of the operation and maintenance expenses are deferred in Regulatory assets within Other Noncurrent Assets on the Consolidated Balance Sheets as of December 31, 2018. The balance of operation and maintenance expenses are included in Operation, maintenance and other on the Consolidated Statements of Operations for the year ended December 31, 2018.

In December 2018, Winter Storm Diego inflicted severe damage to the Duke Energy Carolinas and Duke Energy Progress territories in North Carolina and South Carolina. Approximately 800,000 customers were impacted. The companies incurred approximately \$85 million in incremental operation and maintenance expenses (\$60 million and \$25 million for Duke Energy Carolinas and Duke Energy Progress, respectively,) and approximately \$9 million in capital costs (\$7 million and \$2 million for Duke Energy Carolinas and Duke Energy Progress, respectively,) which are included in Net property, plant and equipment on the Consolidated Balance Sheets as of December 31, 2018, resulting from the winter storm restoration efforts. Most of the operation and maintenance expenses are deferred in Regulatory assets within Other Noncurrent Assets on the Consolidated Balance Sheets as of December 31, 2018. The balance of operation and maintenance expenses are included in Operation, maintenance and other on the Consolidated Statements of Operations for the year ended December 31, 2018.

On December 21, 2018, Duke Energy Carolinas and Duke Energy Progress filed with the NCUC petitions for approval to defer the incremental costs incurred to a regulatory asset for recovery in the next base rate case. The NCUC issued an order requesting comments on the deferral positions. Duke Energy Carolinas and Duke Energy Progress cannot predict the outcome of this matter. Duke Energy Progress filed a similar request with the PSCSC on January 11, 2019, which also included a request for the continuation of prior deferrals requested for ice storms and Hurricane Matthew, and on January 30, 2019, the PSCSC issued a directive approving the deferral request.

North Carolina State Corporate Income Tax

On December 12, 2018, Duke Energy Carolinas and Duke Energy Progress filed requests to reduce their rates effective January 1, 2019, based on a reduction in North Carolina's corporate income tax rate from 3 to 2.5 percent, as enacted by the General Assembly in Session Law 2017-57, which became law on June 28, 2017, with an effective date of January 1, 2019. On December 17, 2018, the NCUC issued orders approving the Duke Energy Carolinas and Duke Energy Progress rate decrements.

FINANCIAL STATEMENTS

REGULATORY MATTERS

Duke Energy Carolinas

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Carolinas' Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2018	2017		
Regulatory Assets^(a)				
AROs – coal ash	\$ 1,725	\$ 1,645	(i)	(b)
Accrued pension and OPEB	581	410		(j)
Retired generation facilities ^(c)	21	29	X	2023
Deferred Asset – Lee COLA	383	—		(b)
Storm cost deferrals	160	—	X	(b)
Hedge costs deferrals ^(c)	101	109	X	2041
DSM/EE	169	210	(h)	(h)
Vacation accrual	78	83	(e)	2019
Deferred fuel and purchased power	196	140	(f)	2020
Nuclear deferral	87	84		2020
PISCC ^(c)	34	35	X	(b)
AMI	176	185	X	(b)
Other	266	222		(b)
Total regulatory assets	3,977	3,152		
Less: current portion	520	299		
Total noncurrent regulatory assets	\$ 3,457	\$ 2,853		
Regulatory Liabilities^(a)				
Costs of removal ^(c)	\$ 1,968	\$ 2,054	X	(g)
ARO – nuclear and other	538	806		(b)
Net regulatory liability related to income taxes ^(d)	3,082	3,028		(b)
Storm reserve ^(c)	—	20		(b)
Accrued pension and OPEB	38	44		(j)
Deferred fuel and purchased power	—	46	(f)	2020
Other	572	359		(b)
Total regulatory liabilities	6,198	6,357		
Less: current portion	199	126		
Total noncurrent regulatory liabilities	\$ 5,999	\$ 6,231		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
- (b) The expected recovery or refund period varies or has not been determined.
- (c) Included in rate base.
- (d) Includes regulatory liabilities related to the change in the federal tax rate as a result of the Tax Act and the change in the North Carolina tax rate, both discussed in Note 23.
- (e) Earns a return on outstanding balance in North Carolina.
- (f) Pays interest on over-recovered costs in North Carolina. Includes certain purchased power costs in North Carolina and South Carolina and costs of distributed energy in South Carolina.
- (g) Recovered over the life of the associated assets.
- (h) Includes incentives on DSM/EE investments and is recovered through an annual rider mechanism.
- (i) Earns a debt and equity return on coal ash expenditures for North Carolina and South Carolina retail customers as permitted by various regulatory orders.
- (j) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.

2017 North Carolina Rate Case

On August 25, 2017, Duke Energy Carolinas filed an application with the NCUC for a rate increase for retail customers of approximately \$647 million, which represented an approximate 13.6 percent increase in annual base revenues. The rate increase was driven by capital investments subsequent to the previous base rate case, including the W.S. Lee CC discussed below, grid improvement projects, AMI, investments in customer service technologies, costs of complying with CCR regulations and the Coal Ash Act and recovery of costs related to licensing and development of the Lee Nuclear Station discussed below.

FINANCIAL STATEMENTS

REGULATORY MATTERS

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On February 28, 2018, Duke Energy Carolinas and the North Carolina Public Staff (Public Staff) filed an Agreement and Stipulation of Partial Settlement resolving certain portions of the proceeding. Terms of the settlement included a return on equity of 9.9 percent and a capital structure of 52 percent equity and 48 percent debt. As a result of the settlement, Duke Energy Carolinas recorded a pretax charge of approximately \$4 million to Operation, maintenance and other on the Consolidated Statements of Operations.

On June 1, 2018, Duke Energy Carolinas and certain intervenors filed a Pilot Grid Rider Agreement and Stipulation (Grid Rider Stipulation) in which the parties agreed to the proposal Duke Energy Carolinas introduced in a post-hearing brief on April 27, 2018, along with additional commitments by Duke Energy Carolinas. Also on June 1, 2018, Duke Energy Carolinas and the Commercial Group filed a Partial Stipulation and Settlement Agreement to be considered in conjunction with the Stipulation.

Components of the Grid Rider Stipulation included:

- Duke Energy Carolinas would recover grid improvement costs through a pilot, three-year Grid Rider except for costs related to targeted undergrounding of power lines, cable and conduit replacement, and power pole replacement;
- Excluded costs were to be deferred with a return until Duke Energy Carolinas' next base rate case proceeding; and
- Costs incurred during the three-year pilot, both rider recoverable and deferred, were subject to a 4.5 percent cumulative cap of total annual electric service revenue.

On June 22, 2018, the NCUC issued an order approving the Stipulation of Partial Settlement and requiring a revenue reduction. The order also included the following material components not covered in the Stipulation:

- Recovery of \$554 million of deferred coal ash basin closure costs over a five-year period with a return at Duke Energy Carolinas' WACC;
- Assessment of a \$70 million management penalty ratably over a five-year period by reducing the annual recovery of the deferred coal ash costs;
- Denial of Duke Energy Carolinas' request for recovery of future estimated ongoing annual coal ash costs of \$201 million with approval to defer such costs with a return at Duke Energy Carolinas' WACC, to be considered for recovery in the next rate case;
- Inclusion in rates of costs related to the W.S. Lee CC, two new solar facilities, and AMI deployment as requested;
- Recovery of Lee Nuclear Station licensing and development cost of \$347 million over a 12-year period, but denial of a return on the deferred balance of costs;
- Reduction in revenue related to lower income tax expense resulting from the Tax Act, and a requirement to maintain all excess deferred income tax (EDIT) resulting from the Tax Act in a regulatory liability account pending flow back to customers as approved by the commission at the earlier of three years or Duke Energy Carolinas' next general rate case proceeding; and
- Denial of the proposed Grid Rider Stipulation related to grid improvement costs and denial of deferral accounting treatment of the costs at this time. Duke Energy Carolinas may petition for deferral of grid modernization costs outside of a general rate case proceeding if it can show financial hardship or a stipulation that includes greater consensus among intervening parties on costs being classified as grid modernization.

As a result of the Order, Duke Energy Carolinas recorded a pretax charge of approximately \$150 million to Impairment charges and Operation, maintenance and other on the Consolidated Statements of Operations. The charge is primarily related to the denial of a return on the Lee Nuclear Project and for previously recognized return impacted by the coal ash management penalty described above. On July 27, 2018, NCUC approved Duke Energy Carolinas' compliance filing. As a result, revised customer rates were effective on August 1, 2018.

On July 20, 2018, the North Carolina Attorney General filed a Notice of Appeal to the North Carolina Supreme Court from the June 22, 2018, Order Accepting Stipulation, Deciding Contested Issues and Requiring Revenue Reduction issued by the NCUC. The Attorney General contends the commission's order should be reversed and remanded, as it is in excess of the commission's statutory authority; affected by errors of law; unsupported by competent, material and substantial evidence in view of the entire record as submitted; and arbitrary or capricious. The Sierra Club, North Carolina Sustainable Energy Association, North Carolina Justice Center, North Carolina Housing Coalition, Natural Resource Defense Council and Southern Alliance for Clean Energy have also filed Notices of Appeal to the North Carolina Supreme Court from the June 22, 2018, Order Accepting Stipulation, Deciding Contested Issues and Requiring Revenue Reduction. On August 8, 2018, the Public Staff filed a Notice of Cross Appeal to the North Carolina Supreme Court from the June 22, 2018, Order Accepting Stipulation, Deciding Contested Issues and Requiring Revenue Reduction issued by the NCUC. The Public Staff contends the commission's order should be reversed and remanded, as it is affected by errors of law, and is unsupported by substantial evidence with regard to the commission's failure to consider substantial evidence of coal ash related environmental violations. On November 29, 2018, the North Carolina Attorney General's Office filed a motion with the North Carolina Supreme Court requesting the court consolidate the Duke Energy Carolinas and Duke Energy Progress appeals and enter an order adopting the parties' proposed briefing schedule as set out in the filing. On November 29, 2018, the North Carolina Supreme Court adopted a schedule for briefing set forth in the motion to consolidate the Duke Energy Carolinas and Duke Energy Progress appeals. The Appellee response briefs are due July 29, 2019. Duke Energy Carolinas cannot predict the outcome of this matter.

2018 South Carolina Rate Case

On November 8, 2018, Duke Energy Carolinas filed an application with the PSCSC for a rate increase for retail customers of approximately \$168 million, which represents an approximate 10.0 percent increase in retail revenues. The rate increase is driven by capital investments and environmental compliance progress made by Duke Energy Carolinas since its previous rate case, including the further implementation of Duke Energy Carolinas' generation modernization program, which consists of retiring, replacing and upgrading generation plants, investments in customer service technologies and continued investments in base work to maintain its transmission and distribution systems. The request includes net tax benefits resulting from the Tax Act of \$66 million to reflect the change in ongoing tax expense, primarily from the reduction in the federal income tax rate from 35 to 21 percent, and \$46 million to return EDIT resulting from the federal tax rate change and deferred revenues since January 2018 related to the change and benefits of \$17 million from a reduction in North Carolina state income taxes allocable to South Carolina.

Duke Energy Carolinas also requested approval of its proposed Grid Improvement Plan, adjustments to its Prepaid Advantage Program and a variety of accounting orders related to ongoing costs for environmental compliance, including recovery over a five-year period of \$242 million of deferred coal ash related compliance costs, grid investments between rate changes, incremental depreciation expense, a result of new depreciation rates from the depreciation study approved in the 2017 North Carolina Rate Case above, and the balance of development costs associated with the cancellation of the Lee Nuclear Project. Finally, Duke Energy Carolinas sought approval to establish a reserve and accrual for end of life nuclear costs for nuclear fuel and materials and supplies. An evidentiary hearing is scheduled to begin on March 21, 2019, and a decision and revised customer rates are expected by mid-2019. Duke Energy Carolinas cannot predict the outcome of this matter.

FERC Formula Rate Matter

On July 31, 2017, PMPA filed a complaint with FERC alleging that Duke Energy Carolinas misapplied the formula rate under the PPA between the parties by including in its rates amortization expense associated with regulatory assets and recorded in a certain account without FERC approval. On February 15, 2018, FERC issued an order ruling in favor of PMPA and ordered Duke Energy Carolinas to refund to PMPA all amounts improperly collected under the PPA. Duke Energy Carolinas has issued to PMPA and similarly situated wholesale customers refunds of approximately \$25 million. FERC also set the matter for settlement and hearing. PMPA and other customers filed a protest to Duke Energy Carolinas' refund report claiming that the refunds are inadequate in that (1) Duke Energy Carolinas invoked the limitations periods in the contracts to limit the time period for which the refunds were paid and the customers disagree that this limitation applies, and (2) Duke Energy Carolinas refunded only amounts recovered through a certain account and the customers have asserted that the order applies to all regulatory assets. On July 3, 2018, FERC issued an order accepting Duke Energy Carolinas' refund report and ruling that these two claims are outside the scope of FERC's February order. The settlement agreements and revised formula rates for all parties to the proceeding were filed on December 28, 2018. Duke Energy Carolinas cannot predict the outcome of this matter.

W.S. Lee CC

On April 9, 2014, the PSCSC granted Duke Energy Carolinas and NCEMC a CECPCN for the construction and operation of a 750-megawatt (MW) combined-cycle natural gas-fired generating plant at Duke Energy Carolinas' existing William States Lee Generating Station in Anderson, South Carolina. Duke Energy Carolinas began construction in July 2015 and its share of the cost to build the facility was approximately \$650 million, including AFUDC. Approximately \$600 million is being recovered through base rate or deferral filings in North Carolina and South Carolina. The remaining amount will be included in future rate filings. The project commenced commercial operation on April 5, 2018. NCEMC owns approximately 13 percent of the project.

Lee Nuclear Station

In December 2007, Duke Energy Carolinas applied to the NRC for COLs for two Westinghouse AP1000 reactors for the proposed William States Lee III Nuclear Station to be located at a site in Cherokee County, South Carolina. The NCUC and PSCSC concurred with the prudence of Duke Energy Carolinas incurring certain project development and preconstruction costs through several separately issued orders, although full cost recovery is not guaranteed. In December 2016, the NRC issued a COL for each reactor. Duke Energy Carolinas is not required to build the nuclear reactors as a result of the COLs being issued.

The Duke Energy Carolinas 2017 North Carolina Rate Case filing discussed above included a request to cancel the development of the Lee Nuclear project, recover incurred licensing and development costs and maintain the license issued by the NRC as an option for potential future development. The cancellation request was due to the Westinghouse bankruptcy filing and other market activity. The NCUC Order issued on June 22, 2018, approved the cancellation of the Lee Nuclear Project, allowed Duke Energy Carolinas to continue to maintain the COLs, provided for recovery of the North Carolina retail allocation of project development costs, including AFUDC accrued through December 31, 2017, over 12 years and disallowed any return on the unamortized balance during the 12-year recovery period.

Given the repeal of certain sections of the Base Load Review Act in South Carolina combined with the cancellation of the project, Duke Energy Carolinas determined that it was no longer probable it would be allowed a return on its share of project development costs attributable to South Carolina. As a result, Duke Energy Carolinas recorded a pretax impairment in the second quarter of 2018 of \$29 million within Impairment charges on the Consolidated Statements of Operations and Comprehensive Income.

South Carolina Petition

On June 22, 2018, Duke Energy Carolinas filed a petition with the PSCSC requesting an accounting order to defer certain costs incurred in connection with the addition of the W.S. Lee CC, the ongoing deployment of Duke Energy Carolinas new billing and Customer Information System and the addition of the Carolinas West Primary Distribution Control Center. This request totaling approximately \$33 million was approved on July 25, 2018.

FINANCIAL STATEMENTS

REGULATORY MATTERS

Sale of Hydroelectric (Hydro) Plants

In May 2018, Duke Energy Carolinas entered an agreement for the sale of five hydro plants with a combined 18.7-MW generation capacity in the Western Carolinas region to Northbrook Energy. The completion of the transaction is subject to approval from FERC for the four FERC-licensed plants, as well as other state regulatory agencies and is contingent upon regulatory approval from the NCUC and PSCSC to defer the total estimated loss on the sale of approximately \$40 million. On July 5, 2018, Duke Energy Carolinas filed with NCUC for approval of the sale of the five hydro plants to Northbrook, to transfer the CPCNs for the four North Carolina hydro plants and to establish a regulatory asset for the North Carolina retail portion of the difference between sales proceeds and net book value. On September 4, 2018, the Public Staff filed comments supporting the CPCN transfer with conditions. On September 18, 2018, Duke Energy Carolinas filed reply comments opposing the Public Staff's proposed conditions. On November 29, 2018, the NCUC issued a procedural order and held an evidentiary hearing on this matter on February 5, 2019. On August 28, 2018, Duke Energy Carolinas filed with PSCSC its Application for Approval of Transfer and Sale of Hydroelectric Generation Facilities, Acceptance for Filing of a Power Purchase Agreement and an Accounting Order to Establish a Regulatory Asset. On September 10, 2018, the ORS provided a letter to the commission stating its position on the application and on September 18, 2018, Duke Energy Carolinas requested this matter be carried over to allow Duke Energy Carolinas time to discuss certain accounting issues with the ORS. On August 9, 2018, Duke Energy Carolinas and Northbrook filed a joint Application for Transfer of Licenses with the FERC. On December 27, 2018, the FERC issued its Order Approving Transfer of Licenses ("Order") for the four FERC-licensed hydro plants. On January 18, 2019, Duke Energy Carolinas and Northbrook Carolina Hydro II, LLC requested a six-month extension of time to comply with the requirement of the Order that Northbrook submit to FERC certified copies of all instruments of conveyance and signed acceptance sheets within 60 days of the date of the Order, given that compliance by the deadline set in the Order is not possible because the conveyance of the projects is contingent on the receipt of state regulatory approvals, which are not anticipated to be issued by February 25, 2019.

If commission approvals are not received, Duke Energy Carolinas can cancel the sales agreement and retain the hydro facilities. If commission approvals are received, the closing is expected to occur during the second quarter of 2019. After closing, Duke Energy Carolinas will purchase all the capacity and energy generated by these facilities at the avoided cost for five years through power purchase agreements. Duke Energy Carolinas cannot predict the outcome of this matter.

Duke Energy Progress

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Progress' Consolidated Balance Sheets.

	December 31,		Earns/Pays	Recovery/Refund
(in millions)	2018	2017	a Return	Period Ends
Regulatory Assets^(a)				
AROs – coal ash	\$ 2,051	\$ 1,975	(h)	(b)
AROs – nuclear and other	429	359		(c)
Accrued pension and OPEB	542	430		(k)
Retired generation facilities	148	170	X	(b)
Storm cost deferrals ^(d)	571	150	X	(b)
Hedge costs deferrals	54	64		(b)
DSM/EE ^(e)	235	264	(i)	(i)
Vacation accrual	41	42		2019
Deferred fuel and purchased power	397	130	(f)	2020
Nuclear deferral	46	35		2020
PISCC and deferred operating expenses	36	38	X	2054
AMI	67	75		(b)
NCEMPA deferrals	50	53	(g)	2042
Other	147	74		(b)
Total regulatory assets	4,814	3,859		
Less: current portion	703	352		
Total noncurrent regulatory assets	\$ 4,111	\$ 3,507		
Regulatory Liabilities^(a)				
Costs of removal	\$ 1,878	\$ 2,122	X	(j)
Accrued pension and OPEB	93	—		(k)
Net regulatory liability related to income taxes ^(l)	1,863	1,854		(b)
Deferred fuel and purchased power	—	1	(f)	2020
Other	299	161		(b)
Total regulatory liabilities	4,133	4,138		
Less: current portion	178	139		
Total noncurrent regulatory liabilities	\$ 3,955	\$ 3,999		

FINANCIAL STATEMENTS

REGULATORY MATTERS

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
- (b) The expected recovery or refund period varies or has not been determined.
- (c) Recovery period for costs related to nuclear facilities runs through the decommissioning period of each unit.
- (d) South Carolina storm costs are included in rate base.
- (e) Included in rate base.
- (f) Pays interest on over-recovered costs in North Carolina. Includes certain purchased power costs in North Carolina and South Carolina and costs of distributed energy in South Carolina.
- (g) South Carolina retail allocated costs are earning a return.
- (h) Earns a debt and equity return on coal ash expenditures for North Carolina and South Carolina retail customers as permitted by various regulatory orders.
- (i) Includes incentives on DSM/EE investments and is recovered through an annual rider mechanism.
- (j) Recovered over the life of the associated assets.
- (k) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.
- (l) Includes regulatory liabilities related to the change in the federal tax rate as a result of the Tax Act and the change in the North Carolina tax rate, both discussed in Note 23.

2017 North Carolina Rate Case

On June 1, 2017, Duke Energy Progress filed an application with the NCUC for a rate increase for retail customers of approximately \$477 million, which represented an approximate 14.9 percent increase in annual base revenues. Subsequent to the filing, Duke Energy Progress adjusted the requested amount to \$420 million, representing an approximate 13 percent increase. The rate increase is driven by capital investments subsequent to the previous base rate case, costs of complying with CCR regulations and the Coal Ash Act, costs relating to storm recovery, investments in customer service technologies and recovery of costs associated with renewable purchased power.

On December 16, 2016, Duke Energy Progress filed a petition with the NCUC requesting an accounting order to defer certain costs incurred in connection with response to Hurricane Matthew and other significant storms in 2016. The final estimate of incremental operation and maintenance and capital costs of \$116 million was filed with the NCUC in September 2017. On July 10, 2017, the NCUC consolidated Duke Energy Progress' storm deferral request into the Duke Energy Progress rate case docket for decision.

On November 22, 2017, Duke Energy Progress and the Public Staff filed an Agreement and Stipulation of Partial Settlement resolving certain portions of the proceeding. Terms of the settlement included a return on equity of 9.9 percent and a capital structure of 52 percent equity and 48 percent debt. As a result of the settlement, in 2017 Duke Energy Progress recorded pretax charges totaling approximately \$25 million to Impairment charges and Operation, maintenance and other on the Consolidated Statements of Operations, principally related to disallowances from rate base of certain projects at the Mayo and Sutton plants. On February 23, 2018, the NCUC issued an order approving the stipulation. The order also included the following material components not covered in the stipulation:

- Recovery of the remaining \$234 million of deferred coal ash basin closure costs over a five-year period with a return at Duke Energy Progress' WACC, excluding \$10 million of retail deferred coal ash basin costs related to ash hauling at Duke Energy Progress' Asheville Plant;
- Assessment of a \$30 million management penalty ratably over a five-year period by reducing the annual recovery of the deferred coal ash costs;
- Denial of Duke Energy Progress' request for recovery of future estimated ongoing annual coal ash costs of \$129 million with approval to defer such costs with a return at Duke Energy Progress' WACC, to be considered for recovery in the next rate case; and
- Approval to recover \$51 million of the approximately \$80 million deferred storm costs over a five-year period with amortization beginning in October 2016. The order did not allow the deferral of the associated capital costs or a return on the deferred balance during the deferral period.

The order also impacted certain amounts that were similarly recorded on Duke Energy Carolinas' Consolidated Balance Sheets. As a result of the order, Duke Energy Progress and Duke Energy Carolinas recorded pretax charges of \$68 million and \$14 million, respectively, in the first quarter of 2018 to Impairment charges, Operation, maintenance and other and Interest Expense on the Consolidated Statements of Operations. These charges primarily related to the coal ash basin disallowance and previously recognized return impacted by the coal ash management penalty and deferred storm cost adjustments. Revised customer rates became effective on March 16, 2018.

On May 15, 2018, the Public Staff filed a Notice of Cross Appeal to the North Carolina Supreme Court from the February 23, 2018, Order Accepting Stipulation, Deciding Contested Issues and Granting Partial Rate Increase issued by the NCUC. The Public Staff contend the commission's order should be reversed and remanded, as it is affected by errors of law, and is unsupported by competent, material and substantial evidence in view of the entire record as submitted. The North Carolina Attorney General and Sierra Club have also filed Notices of Appeal to the North Carolina Supreme Court from the February 23, 2018, Order Accepting Stipulation, Deciding Contested Issues and Granting Partial Rate Increase. On November 29, 2018, the North Carolina Attorney General's Office filed a motion with the North Carolina Supreme Court requesting the court consolidate the Duke Energy Progress and Duke Energy Carolinas appeals and enter an order adopting the parties' proposed briefing schedule as set out in the filing. On November 29, 2018, the North Carolina Supreme Court adopted a schedule for briefing set forth in the motion to consolidate the Duke Energy Progress and Duke Energy Carolinas appeals. The Appellee response briefs are due July 29, 2019. Duke Energy Progress cannot predict the outcome of this matter.

2016 South Carolina Rate Case

In December 2016, the PSCSC approved a rate case settlement agreement among the ORS, intervenors and Duke Energy Progress. Terms of the settlement agreement included an approximate \$56 million increase in revenues over a two-year period. An increase of approximately \$38 million in revenues was effective January 1, 2017, and an additional increase of approximately \$19 million in revenues was effective January 1, 2018. Duke Energy Progress amortized approximately \$19 million from the cost of removal reserve in 2017. Other settlement terms included a rate of return on equity of 10.1 percent, recovery of coal ash costs incurred from January 1, 2015, through June 30, 2016, over a 15-year period and ongoing deferral of allocated ash basin closure costs from July 1, 2016, until the next base rate case. The settlement also provides that Duke Energy Progress will not seek an increase in rates in South Carolina to occur prior to 2019, with limited exceptions.

2018 South Carolina Rate Case

On November 8, 2018, Duke Energy Progress filed an application with the PSCSC for a rate increase for retail customers of approximately \$59 million, which represents an approximate 10.3 percent increase in annual base revenues. The rate increase is driven by capital investments and environmental compliance progress made by Duke Energy Progress since its previous rate case, including the further implementation of Duke Energy Progress' generation modernization program, which consists of retiring, replacing and upgrading generation plants, investments in customer service technologies and continued investments in base work to maintain its transmission and distribution systems. The request includes net tax benefits of \$15 million consisting of a \$12 million increase due to the expiration of EDITs related to reductions in North Carolina state income taxes allocable to South Carolina and decreases resulting from the Tax Act of \$17 million to reflect the change in ongoing tax expense, primarily the reduction in the federal income tax rate from 35 to 21 percent, and \$10 million to return EDIT resulting from the federal tax rate change and deferred revenues since January 2018 related to the change.

Duke Energy Progress also requested approval of its proposed Grid Improvement Plan, approval of a Prepaid Advantage Program and a variety of accounting orders related to ongoing costs for environmental compliance, including recovery over a five-year period of \$51 million of deferred coal ash related compliance costs, AMI deployment, grid investments between rate changes and regulatory asset treatment related to the retirement of a generating plant located in Asheville, North Carolina. Finally, Duke Energy Progress sought approval to establish a reserve and accrual for end of life nuclear costs for materials and supplies and nuclear fuel. An evidentiary hearing is scheduled to begin on April 11, 2019, and a decision and revised customer rates are expected by mid-2019. Duke Energy Progress cannot predict the outcome of this matter.

Western Carolinas Modernization Plan

On November 4, 2015, Duke Energy Progress announced a Western Carolinas Modernization Plan, which included retirement of the existing Asheville coal-fired plant, the construction of two 280-MW combined-cycle natural gas plants having dual-fuel capability, with the option to build a third natural gas simple cycle unit in 2023 based upon the outcome of initiatives to reduce the region's power demand. The plan also included upgrades to existing transmission lines and substations, installation of solar generation and a pilot battery storage project. These investments will be made within the next seven years. Duke Energy Progress is also working with the local natural gas distribution company to upgrade an existing natural gas pipeline to serve the natural gas plant.

On March 28, 2016, the NCUC issued an order approving a CPCN for the new combined-cycle natural gas plants, but denying the CPCN for the contingent simple cycle unit without prejudice to Duke Energy Progress to refile for approval in the future. On March 28, 2018, Duke Energy Progress filed an annual progress report for the construction of the combined-cycle plants with the NCUC, with an estimated cost of \$893 million. Site preparation activities for the combined-cycle plants are complete and construction of these plants began in 2017, with an expected in-service date in late 2019.

On October 8, 2018, Duke Energy Progress filed an application with the NCUC for a CPCN to construct the Hot Springs Microgrid Solar and Battery Storage Facility. On November 30, 2018, the NCUC issued an order scheduling hearings, requiring filing of testimony, establishing discovery guidelines and requiring public notice. On February 7, 2019, Duke Energy Progress made a joint filing with the Public Staff, which accepted the Public Staff's proposed conditions and requested that the NCUC cancel the evidentiary hearing. Duke Energy Progress cannot predict the outcome of this matter.

The carrying value of the 376-MW Asheville coal-fired plant, including associated ash basin closure costs, of \$327 million and \$385 million is included in Generation facilities to be retired, net on Duke Energy Progress' Consolidated Balance Sheets as of December 31, 2018, and 2017, respectively. Duke Energy Progress' request for a regulatory asset at the time of retirement with amortization over a 10-year period was approved by the NCUC on February 23, 2018.

Shearon Harris Nuclear Plant Expansion

In 2006, Duke Energy Progress selected a site at Harris to evaluate for possible future nuclear expansion. On February 19, 2008, Duke Energy Progress filed its COL application with the NRC for two Westinghouse AP1000 reactors at Harris, which the NRC docketed for review. On May 2, 2013, Duke Energy Progress filed a letter with the NRC requesting the NRC to suspend its review activities associated with the COL at the Harris site. The NCUC and PSCSC approved deferral of retail costs. Total deferred costs are approximately \$43 million as of December 31, 2018, and are recorded in Regulatory assets on Duke Energy Progress' Consolidated Balance Sheets. On November 17, 2016, the FERC approved Duke Energy Progress' rate recovery request filing for the wholesale ratepayers' share of the abandonment costs, including a debt-only return to be recovered through revised formula rates and amortized over a 15-year period beginning May 1, 2014. As part of the settlement agreement for the 2017 North Carolina Rate Case discussed above, Duke Energy Progress will amortize the regulatory asset over an eight-year period. NCUC approved the settlement on February 23, 2018.

South Carolina Petitions

On June 22, 2018, Duke Energy Progress filed a petition with the PSCSC seeking an accounting order authorizing Duke Energy Progress to adopt new depreciation rates, effective March 16, 2018, that reflect the results of Duke Energy Progress' most recent depreciation study. Also on June 22, 2018, Duke Energy Progress filed a petition with the PSCSC requesting an accounting order to defer certain costs incurred in connection with the deployment of AML, the ongoing deployment of Duke Energy Progress' new billing and Customer Information System, new depreciation rates and costs incurred in connection with the return of certain excess deferred state income taxes from North Carolina. These requests totaling approximately \$20 million were approved on July 25, 2018.

FERC Form 1 Reporting Matter

On October 18, 2017, Fayetteville Public Works Commission (FPWC) filed with FERC a complaint against Duke Energy Progress. In the complaint, FPWC alleges that Duke Energy Progress' change in its method of reporting materials and supplies inventory on FERC Form 1 for 2015 constituted a change in accounting practice that Duke Energy Progress was not permitted to implement without first obtaining FERC approval. On April 23, 2018, FERC issued an order finding that Duke Energy Progress' new reporting methodology was not proper and required Duke Energy Progress to revise its FERC Form 1s beginning in 2014 and to issue refunds to formula rate customers. Duke Energy Progress estimates that these refunds will total approximately \$14 million. On May 23, 2018, Duke Energy Progress filed a request for rehearing alleging that FERC's order is incorrect. Duke Energy Progress revised its FERC Form 1 filings in June 2018. On August 31, 2018, Duke Energy Progress filed with FERC a refund report memorializing its payment of refunds to FPWC. Duke Energy Progress cannot predict the outcome of this matter.

Tax Act

As ordered by the NCUC on October 5, 2018, Duke Energy Progress filed a proposal on October 25, 2018, to adjust rates to reflect the reduction in federal corporate income tax rate from 35 to 21 percent for taxable years beginning after December 31, 2017, as outlined in the Tax Act. Duke Energy Progress proposed that this rate decrement be effective for service rendered on and after December 1, 2018. On November 28, 2018, the NCUC approved the proposal to implement the change in the federal corporate income tax rate and effective December 1, 2018, Duke Energy Progress implemented the rate reduction. Also, as ordered by the NCUC on October 5, 2018, Duke Energy Progress shall continue to hold in a deferred regulatory liability account the difference between revenues billed under the prior federal corporate income tax rate and the federal corporate income tax rate resulting from the Tax Act for the period January 1, 2018 through November 30, 2018. The disposition of such regulatory liability may be considered in Duke Energy Progress' next general rate case proceeding or in three years, whichever is sooner. EDIT related to the corporate income tax rate reduction shall be held in a deferred tax regulatory liability account until they can be addressed for ratemaking purposes in the next general rate case proceeding or in three years, whichever is sooner.

FINANCIAL STATEMENTS

REGULATORY MATTERS

Duke Energy Florida

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Florida's Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays	Recovery/Refund
	2018	2017	a Return	Period Ends
Regulatory Assets^(a)				
AROs – coal ash ^(c)	\$ 10	\$ 9		(b)
AROs – nuclear and other ^(c)	172	296		(b)
Accrued pension and OPEB ^(c)	532	476	X	(g)
Retired generation facilities ^(c)	219	216	X	(b)
Storm cost deferrals ^{(c)(h)}	382	376	(e)	2021
Nuclear asset securitized balance, net	1,093	1,142		2036
Hedge costs deferrals	20	30		2020
DSM/EE ^(c)	21	17	X	2023
Deferred fuel and purchased power ^(c)	203	219	(f)	2020
AMI ^(c)	60	75	X	2032
Other	176	36	(d)	(b)
Total regulatory assets	2,888	2,892		
Less: current portion	434	389		
Total noncurrent regulatory assets	\$ 2,454	\$ 2,503		
Regulatory Liabilities^(a)				
Costs of removal ^(c)	\$ 257	\$ 415	(d)	(b)
Net regulatory liability related to income taxes ^(c)	847	948		(b)
Accrued pension and OPEB	56	—	X	(g)
Deferred fuel and purchased power ^(c)	16	—	(f)	2020
Other	20	18	(d)	(b)
Total regulatory liabilities	1,196	1,381		
Less: current portion	102	74		
Total noncurrent regulatory liabilities	\$ 1,094	\$ 1,307		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Included in rate base.
(d) Certain costs earn a return.
(e) Earns a debt return/interest once collections begin.
(f) Earns commercial paper rate.
(g) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.
(h) Balance includes \$165 million for Hurricane Michael. Duke Energy Florida expects to seek recovery of these costs in the first half of 2019.

Storm Restoration Cost Recovery

In September 2017, Duke Energy Florida's service territory suffered significant damage from Hurricane Irma, resulting in approximately 1 million customers experiencing outages. In the fourth quarter of 2017, Duke Energy Florida also incurred preparation costs related to Hurricane Nate. On December 28, 2017, Duke Energy Florida filed a petition with the FPSC to recover incremental storm restoration costs for Hurricane Irma and Hurricane Nate and to replenish the storm reserve. On February 6, 2018, the FPSC approved a stipulation that would apply tax savings resulting from the Tax Act toward storm costs effective January 2018 in lieu of implementing a storm surcharge. Storm costs are currently expected to be fully recovered by approximately mid-2021. On May 31, 2018, Duke Energy Florida filed a petition for approval of actual storm restoration costs and associated recovery process related to Hurricane Irma and Hurricane Nate. The petition is seeking the approval for the recovery in the amount of \$510 million in actual recoverable storm restoration costs, including the replenishment of Duke Energy Florida's storm reserve of \$132 million, and the process for recovering these recoverable storm costs. On August 20, 2018, the FPSC approved Duke Energy Florida's unopposed Motion for Continuance filed August 17, 2018, to allow for an evidentiary hearing in this matter. On January 28, 2019, Duke Energy Florida made a supplemental filing to reduce the total storm cost recovery from \$510 million to \$508 million. The commission has scheduled the hearing to begin on May 21, 2019. At December 31, 2018, Duke Energy Florida's Consolidated Balance Sheets included approximately \$217 million of recoverable costs under the FPSC's storm rule in Regulatory assets within Current Assets and Other Noncurrent Assets related to storm recovery for Hurricane Irma and Hurricane Nate. Duke Energy Florida cannot predict the outcome of this matter.

In October 2018, Duke Energy Florida's service territory suffered damage when Hurricane Michael made landfall as a strong Category 4 hurricane with maximum sustained winds of 155 mph. The storm caused catastrophic damage from wind and storm surge, particularly from Panama City Beach to Mexico Beach, resulting in widespread outages and significant damage to transmission and distribution facilities across the central Florida Panhandle. In response to Hurricane Michael, Duke Energy Florida restored service to approximately 72,000 customers. Duke Energy Florida incurred approximately \$200 million of costs resulting from the hurricane restoration efforts. Approximately \$35 million of the costs are included in Net property, plant and equipment on the Consolidated Balance Sheets as of December 31, 2018. The remaining \$165 million of costs represent recoverable costs under the FPSC's storm rule and Duke Energy Florida's Open Access Transmission Tariff formula rates and are included in Regulatory assets within Other Noncurrent Assets on the Consolidated Balance Sheets as of December 31, 2018. Duke Energy Florida anticipates filing a petition with the FPSC in the first half of 2019 to recover these costs, consistent with the provisions in the 2017 Settlement. Duke Energy Florida cannot predict the outcome of this matter.

Tax Act

Pursuant to Duke Energy Florida's 2017 Settlement, on May 31, 2018, Duke Energy Florida filed a petition related to the Tax Act, which included revenue requirement impacts of annual tax savings of \$134 million and estimated annual amortization of EDIT of \$67 million for a total of \$201 million. Of this amount, \$50 million would be offset by accelerated depreciation of Crystal River 4 and 5 coal units and an estimated \$151 million would be offset by Hurricane Irma storm cost recovery as explained in the Storm Restoration Cost Recovery section above. On December 27, 2018, Duke Energy Florida filed actual EDIT balances and amortization based on its 2017 filed tax return. This increased the revenue requirement impact of the amortization of EDIT by \$4 million, from \$67 million to \$71 million. On January 8, 2019, the FPSC approved a joint motion by Duke Energy Florida and the Office of Public Counsel resolving all stipulated positions. As part of that stipulation, Duke Energy Florida will seek a Private Letter Ruling from the IRS on its treatment of COR as mostly protected by tax normalization rules. If the IRS rules that COR is not protected by tax normalization rules, then Duke Energy Florida will make a final adjustment to the amortization of EDIT and an adjustment to the storm recovery amount retroactive to January 2018. Duke Energy Florida cannot predict the outcome of this matter.

Citrus County CC

On October 2, 2014, the FPSC granted Duke Energy Florida a Determination of Need for the construction of a 1,640-MW combined-cycle natural gas plant in Citrus County, Florida. At that time, the estimated cost of the facility was \$1.5 billion, including AFUDC. On May 5, 2015, the Florida Department of Environmental Protection approved Duke Energy Florida's Site Certification Application and construction began in October 2015. On July 10, 2018, the FPSC approved Duke Energy Florida's request to include the annual revenue requirement of \$200 million for the new Citrus County combined-cycle units in base rates. The first 820-MW power block came on-line on October 26, 2018, and the rate increase for this unit was effective in December 2018. The second 820-MW power block came on-line November 24, 2018. The rate increase for the second unit was effective in January 2019. The ultimate cost of the facility is estimated to be \$1.6 billion, and Duke Energy Florida recorded Impairment charges on Duke Energy's Consolidated Statements of Operations of \$60 million in the fourth quarter of 2018 for the overrun, which may change in light of recoveries from the EPC contractor. The plant began receiving natural gas from the Sabal Trail pipeline in August 2018. As a result of the combined-cycle natural gas plant coming on-line, Crystal River coal-fired units 1 and 2 were retired in December 2018. See Note 5 for additional information on Citrus.

Solar Base Rate Adjustment

On July 31, 2018, Duke Energy Florida petitioned the FPSC to include in base rates the revenue requirements for its first two solar generation projects, the Hamilton Project and the Columbia Project, as authorized by the 2017 Settlement. The Hamilton Project, which was placed into service on December 22, 2018, has an annual retail revenue requirement of \$15 million and the increase was effective in January 2019. The Columbia Project has a projected annual revenue requirement of \$14 million and a projected in-service date in early 2020; the associated rate increase would take place with the first month's billing cycle after the Columbia Project goes into service. At its October 30, 2018, Agenda Conference, the FPSC approved the rate increase related to the Hamilton Project to go into effect beginning with the first billing cycle in January 2019 under its file and suspend authority. Rates are subject to true up pending the outcome of the final hearing, which is scheduled to take place on April 2, 2019. Duke Energy Florida cannot predict the outcome of this matter.

FINANCIAL STATEMENTS

REGULATORY MATTERS

Duke Energy Ohio

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Ohio's Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2018	2017		
Regulatory Assets^(a)				
AROs – coal ash	\$ 20	\$ 17	X	(b)
Accrued pension and OPEB	146	139		(g)
Storm cost deferrals	4	5		2023
Hedge costs deferrals	5	6		(b)
DSM/EE	10	18	(f)	(e)
Grid modernization	31	39	X	(e)
Vacation accrual	5	5		2019
Deferred fuel and purchased power	2	—		2019
PISCC and deferred operating expenses ^(c)	17	19	X	2083
Transmission expansion obligation	43	50		(e)
MGP	99	91		(b)
AMI	46	6		(b)
East Bend deferrals	47	45	X	(b)
Deferred pipeline integrity costs	14	12	X	(b)
Other	75	42		(b)
Total regulatory assets	564	494		
Less: current portion	33	49		
Total noncurrent regulatory assets	\$ 531	\$ 445		
Regulatory Liabilities^(a)				
Costs of removal	\$ 126	\$ 189		(d)
Net regulatory liability related to income taxes	678	688		(b)
Accrued pension and OPEB	18	16		(g)
Other	75	34		(b)
Total regulatory liabilities	897	927		
Less: current portion	57	36		
Total noncurrent regulatory liabilities	\$ 840	\$ 891		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Included in rate base.
(d) Recovery over the life of the associated assets.
(e) Recovered via a rider mechanism.
(f) Includes incentives on DSM/EE investments.
(g) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.

2017 Electric Security Plan

On June 1, 2017, Duke Energy Ohio filed with the PUCO a request for a standard service offer in the form of an ESP. On February 15, 2018, the procedural schedule was suspended to facilitate ongoing settlement discussions. On April 13, 2018, Duke Energy Ohio filed a Motion to consolidate this proceeding with several other cases currently pending before the PUCO, including, but not limited to, its Electric Base Rate Case. Additionally, on April 13, 2018, Duke Energy Ohio, along with certain intervenors, filed a Stipulation and Recommendation (Stipulation) with the PUCO resolving certain issues in this proceeding. The term of the ESP would be from June 1, 2018, to May 31, 2025, and includes continuation of market-based customer rates through competitive procurement processes for generation, continuation and expansion of existing rider mechanisms and proposed new rider mechanisms relating to regulatory mandates, costs incurred to enhance the customer experience and transform the grid and a service reliability rider for vegetation management. The Stipulation establishes a regulatory model for the next seven years via the approval of the ESP and continues the current model for procuring supply for non-shopping customers, including recovery mechanisms. On December 19, 2018, the PUCO approved the Stipulation without material modification. Several parties have filed applications for rehearing. On February 6, 2019, the PUCO granted the parties rehearing. Duke Energy Ohio cannot predict the outcome of this matter.

Electric Base Rate Case

Duke Energy Ohio filed with the PUCO an electric distribution base rate case application and supporting testimony in March 2017. Duke Energy Ohio requested an estimated annual increase of approximately \$15 million and a return on equity of 10.4 percent. The application also included requests to continue certain current riders and establish new riders. On September 26, 2017, the PUCO staff filed a report recommending a revenue decrease between approximately \$18 million and \$29 million and a return on equity between 9.22 percent and 10.24 percent. On April 13, 2018, Duke Energy Ohio filed a Motion to consolidate this proceeding with several other cases pending before the PUCO. On April 13, 2018, Duke Energy Ohio, along with certain intervenors, filed the Stipulation with the PUCO resolving numerous issues including those in this base rate proceeding. Major components of the Stipulation related to the base distribution rate case include a \$19 million decrease in annual base distribution revenue with a return on equity unchanged from the current rate of 9.84 percent based upon a capital structure of 50.75 percent equity and 49.25 percent debt. Upon approval of new rates, Duke Energy Ohio's rider for recovering its initial SmartGrid implementation ends as these costs will be recovered through base rates. The Stipulation also renews 14 existing riders, some of which were included in the company's ESP, and adds two new riders including the Enhanced Service Reliability Rider to recover vegetation management costs not included in base rates, up to \$10 million per year (operation and maintenance only) and the PowerForward Rider to recover costs incurred to enhance the customer experience and further transform the grid (operation and maintenance and capital). In addition to the changes in revenue attributable to the Stipulation, Duke Energy Ohio's capital-related riders, including the Distribution Capital Investments Rider, began to reflect the lower federal income tax rate associated with the Tax Act with updates to customers' bills beginning April 1, 2018. This change reduces electric revenue by approximately \$20 million on an annualized basis. On December 19, 2018, the PUCO approved the Stipulation without material modification. New base rates were implemented effective January 2, 2019. Several parties have filed applications for rehearing. On February 6, 2019, the PUCO granted the parties rehearing. Duke Energy Ohio cannot predict the outcome of this matter.

Ohio Valley Electric Corporation

On March 31, 2017, Duke Energy Ohio filed for approval to adjust its existing price stabilization rider (Rider PSR), which is currently set at zero dollars, to pass through net costs related to its contractual entitlement to capacity and energy from the generating assets owned by OVEC. Duke Energy Ohio sought deferral authority for net costs incurred from April 1, 2017, until the new rates under Rider PSR are put into effect. On April 13, 2018, Duke Energy Ohio filed a Motion to consolidate this proceeding with several other cases currently pending before the PUCO. Also on April 13, 2018, Duke Energy Ohio, along with certain intervenors, filed a Stipulation with the PUCO resolving numerous issues including those related to Rider PSR. The Stipulation activates Rider PSR for recovery of net costs incurred from January 1, 2018 through May 2025. On December 19, 2018, the PUCO approved the Stipulation without material modification. Several parties have filed applications for rehearing. On February 6, 2019, the PUCO granted the parties rehearing. Duke Energy Ohio cannot predict the outcome of this matter. See Note 17 for additional discussion of Duke Energy Ohio's ownership interest in OVEC.

Tax Act – Ohio

On July 25, 2018, Duke Energy Ohio filed an application to establish a new rider to implement the benefits of the Tax Act for electric distribution customers. Duke Energy Ohio requested commission approval to implement the rider effective October 1, 2018, as a credit to all distribution customers based upon a percent reduction to Duke Energy Ohio's distribution rates. The new rider will flow through to customers the benefit of the lower statutory federal tax rate from 35 to 21 percent since January 1, 2018, all future benefits of the lower tax rates and a full refund of deferred income taxes collected at the higher tax rates in prior years. Deferred income taxes subject to normalization rules will be refunded consistent with federal law and deferred income taxes not subject to normalization rules will be refunded over a 10-year period. Duke Energy Ohio's transmission rates reflect lower federal income tax but guidance from FERC on amortization of both protected and unprotected transmission-related EDITs is still pending. On October 24, 2018, the PUCO issued a Finding and Order that, among other things, directed all utilities over which the commission has rate-making authority to file an application to pass the benefits of the Tax Act to customers by January 1, 2019, unless otherwise exempted or directed by the PUCO. Duke Energy Ohio's July 25, 2018, filing for electric distribution operations is consistent with the commission's October 24, 2018, Finding and Order and no further action is needed. On February 20, 2019, the PUCO approved the application without material modification. Rates will be effective March 1, 2019. On December 21, 2018, Duke Energy Ohio filed an application to change its base rates and establish a new rider to implement the benefits of the Tax Act for natural gas customers. Duke Energy Ohio requested commission approval to implement the changes and rider effective April 1, 2019. The new rider will flow through to customers the benefit of the lower statutory federal tax rate from 35 to 21 percent since January 1, 2018, all future benefits of the lower tax rates and a full refund of deferred income taxes collected at the higher tax rates in prior years. Deferred income taxes subject to normalization rules will be refunded consistent with federal law and deferred income taxes not subject to normalization rules will be refunded over a 10-year period. The PUCO has not yet ruled on the application for changes for natural gas customers. Duke Energy Ohio cannot predict the outcome of this matter.

Energy Efficiency Cost Recovery

On March 28, 2014, Duke Energy Ohio filed an application for recovery of program costs, lost distribution revenue and performance incentives related to its energy efficiency and peak demand reduction programs. These programs are undertaken to comply with environmental mandates set forth in Ohio law. The PUCO approved Duke Energy Ohio's application but found that Duke Energy Ohio was not permitted to use banked energy savings from previous years in order to calculate the amount of allowed incentive. This conclusion represented a change to the cost recovery mechanism that had been agreed upon by intervenors and approved by the PUCO in previous cases. The PUCO granted the applications for rehearing filed by Duke Energy Ohio and an intervenor. On January 6, 2016, Duke Energy Ohio and the PUCO Staff entered into a stipulation, pending the PUCO's approval, to resolve issues related to performance incentives and the PUCO Staff audit of 2013 costs, among other issues. In December 2015, based upon the stipulation, Duke Energy Ohio re-established approximately \$20 million of the revenues that had been previously reversed. On October 26, 2016, the PUCO issued an order approving the stipulation without modification. In December 2016, the PUCO granted the intervenors request for rehearing for the purpose of further review. Duke Energy Ohio cannot predict the outcome of this matter.

On June 15, 2016, Duke Energy Ohio filed an application for approval of a three-year energy efficiency and peak demand reduction portfolio of programs. A stipulation and modified stipulation were filed on December 22, 2016, and January 27, 2017, respectively. Under the terms of the stipulations, which included support for deferral authority of all costs and a cap on shared savings incentives, Duke Energy Ohio has offered its energy efficiency and peak demand reduction programs throughout 2017. On February 3, 2017, Duke Energy Ohio filed for deferral authority of its costs incurred in 2017 in respect of its proposed energy efficiency and peak demand reduction portfolio. On September 27, 2017, the PUCO issued an order approving a modified stipulation. The modifications impose an annual cap of approximately \$38 million on program costs and shared savings incentives combined, but allowed for Duke Energy Ohio to file for a waiver of costs in excess of the cap in 2017. The PUCO approved the waiver request for 2017 up to a total cost of \$56 million. On November 21, 2017, the PUCO granted Duke Energy Ohio's and intervenor's applications for rehearing of the September 27, 2017, order. On January 10, 2018, the PUCO denied the Ohio Consumers' Counsel's application for rehearing of the PUCO order granting Duke Energy Ohio's waiver request; however, a decision on Duke Energy Ohio's application for rehearing remains pending. Duke Energy Ohio cannot predict the outcome of this matter.

2014 Electric Security Plan

In April 2015, the PUCO modified and approved Duke Energy Ohio's proposed ESP, with a three-year term and an effective date of June 1, 2015. The PUCO approved a competitive procurement process for SSO load, a distribution capital investment rider (Rider DCI) and a tracking mechanism for incremental distribution expenses caused by major storms. The PUCO also approved a placeholder tariff for a price stabilization rider, but denied Duke Energy Ohio's specific request to include Duke Energy Ohio's entitlement to generation from OVEC in the rider at this time; however, the order allows Duke Energy Ohio to submit additional information to request recovery in the future. On May 4, 2015, Duke Energy Ohio filed an application for rehearing requesting the PUCO to modify or amend certain aspects of the order. On May 28, 2015, the PUCO granted all applications for rehearing filed in the case for future consideration. On March 21, 2018, the PUCO issued an order denying Duke Energy Ohio's issues on rehearing. On April 20, 2018, Duke Energy Ohio filed a second application for rehearing based upon the commission's March 21, 2018, Order. On May 16, 2018, the commission issued its third Entry on Rehearing granting in part, and denying in part, Duke Energy Ohio's rehearing request.

On March 9, 2018, Duke Energy Ohio filed a motion to extend its then-current ESP, including all terms and conditions thereof, pending approval of a new ESP. On May 30, 2018, the PUCO granted the request, with modification. Specifically, the PUCO did not extend the cap applicable to Rider DCI beyond July 31, 2018. Duke Energy Ohio sought rehearing of this finding. On July 25, 2018, the PUCO granted the request and allowed a continuing cap on recovery under Rider DCI. On August 24, 2018, OMA and OCC filed an Application for Rehearing of the commission's decision. Duke Energy Ohio filed a Memorandum Contra OCC's request for rehearing of the commission's continuation of Rider DCI on September 4, 2018. On September 19, 2018, the PUCO issued an Order granting rehearing on the matter for further consideration. Duke Energy Ohio cannot predict the outcome of this matter.

On May 21, 2018, the Ohio Manufacturers' Association (OMA) filed a notice of appeal of PUCO's approval of Duke Energy Ohio's ESP with the Ohio Supreme Court, challenging PUCO's approval of Duke Energy Ohio's Price Stability Rider as a placeholder and its Rider DCI to recover incremental revenue requirement for distribution capital since Duke Energy Ohio's last base rate case. On July 16, 2018, the Office of the Ohio Consumers' Counsel (OCC) filed its own appeal of Duke Energy Ohio's ESP with the Ohio Supreme Court raising similar issues to that of the OMA. Duke Energy Ohio filed a Motion to Intervene in the two Ohio Supreme Court appeals. OMA's Supreme Court brief was filed on August 20, 2018. PUCO submitted its brief on October 26, 2018, and Duke Energy Ohio filed its brief on October 29, 2018. The OCC's Supreme Court brief was filed on October 15, 2018. Duke Energy Ohio filed its brief on December 20, 2018. The PUCO submitted its brief on December 21, 2018. Duke Energy Ohio cannot predict the outcome of this matter.

Natural Gas Pipeline Extension

Duke Energy Ohio is proposing to install a new natural gas pipeline (the Central Corridor Project) in its Ohio service territory to increase system reliability and enable the retirement of older infrastructure. Duke Energy Ohio currently estimates the pipeline development costs and construction activities will range from \$163 million to \$245 million in direct costs (excluding overheads and AFUDC). On January 20, 2017, Duke Energy Ohio filed an amended application with the Ohio Power Siting Board (OPSB) for approval of one of two proposed routes. A public hearing was held on June 15, 2017. In April 2018, Duke Energy Ohio filed a motion with OPSB to establish a procedural schedule and filed supplemental information supporting its application. On December 18, 2018, the OPSB established a procedural schedule that includes a local public hearing on March 21, 2019, and an evidentiary hearing starting on April 9, 2019. If approved, construction of the pipeline extension is expected to be completed before the 2021/2022 winter season. Duke Energy Ohio cannot predict the outcome of this matter.

2012 Natural Gas Rate Case/MGP Cost Recovery

On November 13, 2013, the PUCO issued an order approving a settlement of Duke Energy Ohio's natural gas base rate case and authorizing the recovery of costs incurred between 2008 and 2012 for environmental investigation and remediation of two former MGP sites. The PUCO order also authorized Duke Energy Ohio to continue deferring MGP environmental investigation and remediation costs incurred subsequent to 2012 and to submit annual filings to adjust the MGP rider for future costs. Intervening parties appealed this decision to the Ohio Supreme Court and on June 29, 2017, the Ohio Supreme Court issued its decision affirming the PUCO order. Appellants filed a request for reconsideration, which was denied on September 27, 2017. This matter is now final.

The PUCO order also contained conditional deadlines for completing the MGP environmental investigation and remediation costs at the MGP sites. As of December 31, 2018, Duke Energy Ohio had approximately \$24 million for future remediation costs expected to be incurred at the East End site and approximately \$23 million for future remediation costs expected to be incurred at the West End site included in Regulatory assets within Other Noncurrent Assets on the Consolidated Balance Sheets.

FINANCIAL STATEMENTS

REGULATORY MATTERS

Duke Energy Kentucky Electric Rate Case

On September 1, 2017, Duke Energy Kentucky filed a rate case with the KPSC requesting an increase in electric base rates of approximately \$49 million, which represents an approximate 15 percent increase on the average customer bill. Subsequent to the filing, Duke Energy Kentucky adjusted the requested amount to \$30.1 million, in part to reflect the benefits of the Tax Act, representing an approximate 9 percent increase on the average customer bill. The rate increase was driven by increased investment in utility plant, increased operations and maintenance expenses and recovery of regulatory assets. The application also includes requests to implement an Environmental Surcharge Mechanism to recover environmental costs not recovered in base rates, to establish a Distribution Capital Investment Rider to recover incremental costs of specific programs, to establish a FERC Transmission Cost Reconciliation Rider to recover escalating transmission costs and to modify existing Profit Sharing Mechanism to increase customers' share of proceeds from the benefits of owning generation and to mitigate shareholder risks associated with that generation. An evidentiary hearing concluded on March 8, 2018, and the KPSC issued an order on April 13, 2018. Major components of the Order include approval of an \$8 million increase in base rates with a return on equity at 9.725 percent based upon a capital structure of 49 percent equity on a total allocable capitalization of approximately \$650 million. The Order approved the Environmental Surcharge Mechanism Rider and in June 2018 recovery began of capital-related environmental costs, including costs related to ash and ash disposal, and environmental operation and maintenance expenses formerly recovered in base rates, including expenses for environmental reagents and emission allowances. The incremental revenue from this rider will be approximately \$13 million on an annualized basis. The order settles all issues associated with the Tax Act as it relates to the electric business by lowering the income tax component of the revenue requirement and refunding protected EDIT under allowable normalization rules and unprotected EDIT over 10 years. The Order denied requests to implement riders for certain transmission costs and distribution capital investments. Duke Energy Kentucky implemented new base rates on May 1, 2018. On May 3, 2018, Duke Energy Kentucky filed an application for rehearing on certain aspects of the order; on May 23, 2018, the KPSC granted a rehearing. On October 2, 2018, the KPSC issued its rehearing order correcting certain findings in its initial order and making additional changes that are immaterial to the company's earnings.

Duke Energy Kentucky Natural Gas Base Rate Case

On August 31, 2018, Duke Energy Kentucky filed an application with the KPSC requesting an increase in natural gas base rates of approximately \$11 million, an approximate 11.1 percent average increase across all customer classes. The increase is net of approximately \$5 million in annual savings as a result of the Tax Act. The drivers for this case are capital invested since Duke Energy Kentucky's last rate case in 2009. Duke Energy Kentucky is also seeking implementation of a Weather Normalization Adjustment Mechanism, amortization of regulatory assets and to implement the impacts of the Tax Act, prospectively. On January 30, 2019, Duke Energy Kentucky entered into a settlement agreement with the Attorney General of Kentucky, the only intervenor in the case, which if approved would resolve the matter. The settlement provides for an approximate \$7 million increase and approval of the proposed Weather Normalization Mechanism. A hearing was held on February 5, 2019. A ruling is expected in late first quarter 2019. Duke Energy Kentucky cannot predict the outcome of this matter.

FERC 494 Refund of Regional Transmission Enhancement Projects

FERC Order No. 494 Settlement Agreement (FERC 494 Settlement Agreement) was entered into by most of the PJM transmission owners, including Duke Energy Ohio and Duke Energy Kentucky, and the PJM state regulatory commissions approximately two years ago and was planned to be effective on January 1, 2016; however, it was not approved by FERC until May 31, 2018. The FERC 494 Settlement Agreement was due to the Seventh Circuit Court of Appeals finding that FERC had failed to adequately justify the costs that the customers in the western part of PJM were being charged for high voltage transmission projects, or Regional Transmission Expansion Plan (RTEP) projects (500 kV and above) built in the east. These costs were being allocated to all PJM customers on a load-ratio share basis but the court determined that these costs were not justifiable to customers in the west, including Duke Energy Ohio and Duke Energy Kentucky, that did not benefit from the RTEP projects. Costs for the periods 2012 through 2015 are expected to be refunded to Duke Energy Ohio and Duke Energy Kentucky on a monthly basis through December 2025. The refund amount for similar costs incurred beginning in 2016 through June 30, 2018, prior to the change in cost allocation by PJM was determined in the third quarter of 2018 and these amounts will be refunded over a 12-month period beginning in July 2018. These refunds, totaling approximately \$47 million for Duke Energy Ohio and Duke Energy Kentucky, have been recorded to Operation, maintenance and other on the Consolidated Statements of Operations for the year ended December 31, 2018.

Regional Transmission Organization Realignment

Duke Energy Ohio, including Duke Energy Kentucky, transferred control of its transmission assets from MISO to PJM, effective December 31, 2011. The PUCO approved a settlement related to Duke Energy Ohio's recovery of certain costs of the RTO realignment via a non-bypassable rider. Duke Energy Ohio is allowed to recover all MTEP costs directly or indirectly charged to Ohio customers. The KPSC also approved a request to effect the RTO realignment, subject to a commitment not to seek double recovery in a future rate case of the transmission expansion fees that may be charged by MISO and PJM in the same period or overlapping periods.

The following table provides a reconciliation of the beginning and ending balance of Duke Energy Ohio's recorded liability for its exit obligation and share of MTEP costs recorded in Other within Current Liabilities and Other Noncurrent Liabilities on the Consolidated Balance Sheets. The retail portions of MTEP costs billed by MISO are recovered by Duke Energy Ohio through a non-bypassable rider. As of December 31, 2018, and 2017, \$43 million and \$50 million, respectively, are recorded in Regulatory assets on Duke Energy Ohio's Consolidated Balance Sheets.

(in millions)	Provisions/ Adjustments		Cash Reductions	
	December 31, 2017			December 31, 2018
Duke Energy Ohio	\$ 66	\$ (4)	\$ (4)	\$ 58

FINANCIAL STATEMENTS

REGULATORY MATTERS

Duke Energy Indiana

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Indiana's Consolidated Balance Sheets.

	December 31,		Earns/Pays	Recovery/Refund
(in millions)	2018	2017	a Return	Period Ends
Regulatory Assets^(a)				
AROs – coal ash	\$ 450	\$ 380		(b)
Accrued pension and OPEB	222	197		(f)
Retired generation facilities ^(c)	57	65	X	2026
Hedge costs deferrals	24	25		(b)
DSM/EE	14	21	(e)	(e)
Vacation accrual	11	11		2019
Deferred fuel and purchased power	40	18		2019
PISCC and deferred operating expenses ^(c)	233	274	X	(b)
AMI ^(c)	18	21	X	(b)
Other	88	131		(b)
Total regulatory assets	1,157	1,143		
Less: current portion	175	165		
Total noncurrent regulatory assets	\$ 982	\$ 978		
Regulatory Liabilities^(a)				
Costs of removal	\$ 628	\$ 644		(d)
Net regulatory liability related to income taxes	1,009	998		(b)
Amounts to be refunded to customers	1	10		2019
Accrued pension and OPEB	67	64		(f)
Other	42	31		(b)
Total regulatory liabilities	1,747	1,747		
Less: current portion	25	24		
Total noncurrent regulatory liabilities	\$ 1,722	\$ 1,723		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Included in rate base.
(d) Recovery over the life of the associated assets.
(e) Includes incentives on DSM/EE investments and is recovered through a tracker mechanism over a two-year period.
(f) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.

FERC Transmission Return on Equity Complaint

Customer groups have filed with the FERC complaints against Midcontinent Independent System Operator, Inc. (MISO) and its transmission-owning members, including Duke Energy Indiana, alleging, among other things, that the current base rate of return on equity earned by MISO transmission owners of 12.38 percent is unjust and unreasonable. The complaints claim, among other things, that the current base rate of return on equity earned by MISO transmission owners should be reduced to 8.67 percent. On January 5, 2015, the FERC issued an order accepting the MISO transmission owners' adder of 0.50 percent to the base rate of return on equity based on participation in an RTO subject to it being applied to a return on equity that is shown to be just and reasonable in the pending return on equity complaints. On December 22, 2015, the presiding FERC ALJ in the first complaint issued an Initial Decision in which the base rate of return on equity was set at 10.32 percent. On September 28, 2016, the Initial Decision in the first complaint was affirmed by FERC, but is subject to rehearing requests. On June 30, 2016, the presiding FERC ALJ in the second complaint issued an Initial Decision setting the base rate of return on equity at 9.70 percent. The Initial Decision in the second complaint is pending FERC review. On April 14, 2017, the U.S. Court of Appeals for the District of Columbia Circuit, in *Emera Maine v. FERC*, reversed and remanded certain aspects of the methodology employed by FERC to establish rates of return on equity. On October 16, 2018, FERC issued an order in response to the Emera remand proceeding proposing a new method for determining whether an existing return on equity is unjust and unreasonable, and a new process for determining a just and reasonable return on equity. On November 14, 2018, FERC directed parties to the MISO complaints to file briefs on how the new process for determining return on equity proposed in the Emera proceeding should be applied to the complaints involving the MISO transmission owners' return on equity. Initial briefs were filed on February 13, 2019, and reply briefs will be due April 10, 2019. Duke Energy Indiana currently believes these matters will not have a material impact on its results of operations, cash flows and financial position.

Benton County Wind Farm Dispute

On December 16, 2013, BCWF filed a lawsuit against Duke Energy Indiana seeking damages for past generation losses alleging Duke Energy Indiana violated its obligations under a 2006 PPA by refusing to offer electricity to the market at negative prices. Damage claims continue to increase during times that BCWF is not dispatched. Under 2013 revised MISO market rules, Duke Energy Indiana is required to make a price offer to MISO for the power it proposes to sell into MISO markets and MISO determines whether BCWF is dispatched. Because market prices would have been negative due to increased market participation, Duke Energy Indiana determined it would not bid at negative prices in order to balance customer needs against BCWF's need to run. BCWF contends Duke Energy Indiana must bid at the lowest negative price to ensure dispatch, while Duke Energy Indiana contends it is not obligated to bid at any particular price, that it cannot ensure dispatch with any bid and that it has reasonably balanced the parties' interests. On July 6, 2015, the U.S. District Court for the Southern District of Indiana entered judgment against BCWF on all claims. BCWF appealed the decision and on December 9, 2016, the appeals court ruled in favor of BCWF. Duke Energy Indiana recorded an obligation and a regulatory asset related to the settlement amount in fourth quarter 2016. On June 30, 2017, the parties finalized a settlement agreement. Terms of the settlement included Duke Energy Indiana paying \$29 million for back damages. Additionally, the parties agreed on the method by which the contract will be bid into the market in the future. The settlement amount was paid in June 2017. The IURC issued an order on September 27, 2017, approving recovery of the settlement amount through Duke Energy Indiana's fuel clause. The IURC order has been appealed to the Indiana Court of Appeals. On May 21, 2018, the Indiana Court of Appeals upheld the commission's decision. The appellants have requested rehearing at the Indiana Court of Appeals. The Indiana Court of Appeals denied the request for rehearing. The appellants have requested transfer to the Indiana Supreme Court, including briefs in support from environmental groups. The Indiana Supreme Court denied transfer concluding this matter in favor of Duke Energy Indiana.

Edwardsport Integrated Gasification Combined Cycle Plant

On September 20, 2018, Duke Energy Indiana, the Indiana Office of Utility Consumer Counselor, the Duke Industrial Group and Nucor Steel – Indiana entered into a settlement agreement to resolve IGCC ratemaking issues for calendar years 2018 and 2019. The agreement will remain in effect until new rates are established in Duke Energy Indiana's next base rate case, which is expected to be filed in mid-2019 with rates effective in mid-2020. It addresses the pending Edwardsport filing at the commission and eliminates the need for future filings until the overall rate case. This settlement includes caps on Duke Energy Indiana's retail operating expenses for 2018 and 2019, reduces Duke Energy Indiana's regulatory asset by \$30 million (with a corresponding reduction of the amount of amortization of the regulatory asset included in rates by \$10 million annually beginning with the implementation of final IGCC 17 rates), and provides funding for low-income assistance and clean energy projects. Duke Energy Indiana recognized pretax impairment and related charges of \$32 million in the third quarter of 2018. The settlement is subject to IURC approval. An evidentiary hearing was held December 2018 and an IURC Order is expected in March 2019. Duke Energy Indiana cannot predict the outcome of this matter.

Tax Act

On June 27, 2018, Duke Energy Indiana, the Indiana Office of Utility Consumer Counselor, the Indiana Industrial Group and Nucor Steel – Indiana filed testimony consistent with their Stipulation and Settlement Agreement (Settlement Agreement) in the federal tax act proceeding with the IURC. The Settlement Agreement outlines how Duke Energy Indiana will implement the impacts of the Tax Act. Material components of the Settlement Agreement were as follows:

- Riders to reflect the change in the statutory federal tax rate from 35 to 21 percent as they are filed in 2018;
- Base rates to reflect the change in the statutory federal tax rate from 35 to 21 percent upon IURC approval, but no later than September 1, 2018;
- Duke Energy Indiana to continue to defer protected federal EDIT until January 1, 2020, at which time it will be returned to customers according to the Average Rate Assumption Method required by the Internal Revenue Service over approximately 26 years; and
- Duke Energy Indiana to begin returning unprotected federal EDIT upon IURC approval, over 10 years. In order to mitigate the negative impacts to cash flow and credit metrics, the Settlement Agreement allows Duke Energy Indiana to return \$7 million per year over the first five years, with a step up to \$35 million per year in the following five years.

On August 22, 2018, the IURC approved the settlement and rates were adjusted effective September 1, 2018.

FINANCIAL STATEMENTS

REGULATORY MATTERS

Piedmont

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Piedmont's Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays	Recovery/Refund
	2018	2017	a Return	Period Ends
Regulatory Assets ^(a)				
AROs – other	\$ 19	\$ 15		(d)
Accrued pension and OPEB ^(c)	99	91	X	(f)
Derivatives – gas supply contracts ^(e)	141	142		
Vacation accrual	12	10		
Deferred pipeline integrity costs ^(c)	51	42	X	(b)
Amount due from customers	24	64	X	(b)
Other	11	14		(b)
Total regulatory assets	357	378		
Less: current portion	54	95		
Total noncurrent regulatory assets	\$ 303	\$ 283		
Regulatory Liabilities ^(a)				
Costs of removal	\$ 564	\$ 544		(d)
Net regulatory liability related to income taxes	579	597		(b)
Accrued pension and OPEB ^(c)	1	—	X	(f)
Amount due to customers	33	—	X	(b)
Other	41	3		(b)
Total regulatory liabilities	1,218	1,144		
Less: current portion	37	3		
Total noncurrent regulatory liabilities	\$ 1,181	\$ 1,141		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Included in rate base.
(d) Recovery over the life of the associated assets.
(e) Balance will fluctuate with changes in the market. Current contracts extend into 2031.
(f) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.

South Carolina Rate Stabilization Adjustment Filing

On June 15, 2018, Piedmont filed with the PSCSC under the South Carolina Rate Stabilization Act its quarterly monitoring report for the 12-month period ending March 31, 2018. The filing included a revenue deficiency calculation and tariff rates in order to permit Piedmont the opportunity to earn the rate of return on common equity established in its last general rate case. The filing also incorporated the impacts of the Tax Act by lowering the income tax component of the revenue requirement, refunding protected EDIT under allowable normalization rules, unprotected EDIT and amounts over collected from the customers from January 1, 2018, through the end of the review period for this proceeding. A settlement agreement reached between Piedmont and ORS was filed with the PSCSC on September 14, 2018, and approved by the PSCSC on October 3, 2018. Terms of the settlement include implementation of rates for the 12-month period beginning November 2018 with a return on equity of 10.2 percent.

North Carolina Integrity Management Rider Filing

In October 2018, Piedmont filed a petition under the IMR mechanism to collect an additional \$10 million in annual revenues, effective December 2018, based on the eligible capital investments closed to integrity and safety projects over the six-month period ended September 30, 2018. On November 27, 2018, the NCUC approved the requested rate adjustment.

In May 2018, Piedmont filed, and the NCUC approved, a petition under the IMR mechanism to update rates, effective June 2018, based on the eligible capital investments closed to integrity and safety projects over the six-month period ending March 31, 2018, and the decrease in the corporate federal income tax rate effective January 1, 2018. The combined effect of the update was a reduction to annual revenues of approximately \$6 million.

Tennessee Integrity Management Rider Filing

In November 2018, Piedmont filed a petition with the TPUC under the IMR mechanism to collect an additional \$3 million in annual revenues, effective January 2019, based on the eligible capital investments closed to integrity and safety projects over the 12-month period ending October 31, 2018. A hearing on this matter is scheduled for March 2019.

FINANCIAL STATEMENTS

REGULATORY MATTERS

2018 North Carolina Rate Case

On February 27, 2019, Piedmont filed a notice with the NCUC of its intent to file a base rate adjustment application no earlier than 30 days from the notice submittal date.

OTHER REGULATORY MATTERS

Progress Energy Merger FERC Mitigation

Since December 2014, the FERC Office of Enforcement has conducted an investigation of Duke Energy's market power filings in its application for approval of the Progress Energy merger submitted in 2012. On June 8, 2018, the FERC issued an order approving a settlement agreement under which Duke Energy paid a penalty of \$3.5 million. The FERC Office of Enforcement stated in its conclusion that Duke Energy violated FERC regulations by failing to fully and accurately describe certain specific matters in its market power filings. Duke Energy neither admitted nor denied the alleged violations.

Atlantic Coast Pipeline, LLC

On September 2, 2014, Duke Energy, Dominion Resources (Dominion), Piedmont and Southern Company Gas announced the formation of Atlantic Coast Pipeline, LLC (ACP) to build and own the proposed Atlantic Coast Pipeline (ACP pipeline), an approximately 600-mile interstate natural gas pipeline running from West Virginia to North Carolina. The ACP pipeline is designed to meet, in part, the needs identified by Duke Energy Carolinas, Duke Energy Progress and Piedmont. Dominion will be responsible for building and operating the ACP pipeline and holds a leading ownership percentage in ACP of 48 percent. Duke Energy owns a 47 percent interest, which is accounted for as an equity method investment through its Gas Utilities and Infrastructure segment. Southern Company Gas maintains a 5 percent interest. See Notes 12 and 17 for additional information related to Duke Energy's ownership interest. Duke Energy Carolinas, Duke Energy Progress and Piedmont, among others, will be customers of the pipeline. Purchases will be made under several 20-year supply contracts, subject to state regulatory approval.

In 2018, the FERC issued a series of Notices to Proceed, which authorized the project to begin certain construction-related activities along the pipeline route, including supply header and compressors. On May 11, 2018, and October 19, 2018, FERC issued Notices to Proceed allowing full construction activities in all areas of West Virginia except in the Monongahela National Forest. On July 24, 2018, FERC issued a Notice to Proceed allowing full construction activities along the project route in North Carolina. On October 19, 2018, the conditions to effectiveness of the Virginia 401 water quality certification were satisfied. Immediately following receipt of the Virginia 401 certification, ACP filed a request for FERC to issue a Notice to Proceed with full construction activities in Virginia. We appreciate the professional and collaborative process by the permitting agencies designed to ensure that this critical energy infrastructure project will meet the stringent environmental standards required by law and regulation.

ACP is the subject of challenges in state and federal courts and agencies, including, among others, challenges of the project's incidental take statement (ITS), crossings of the Blue Ridge Parkway, the Appalachian Trail, and the Monongahela and George Washington National Forests, the project's U.S. Army Corps of Engineers (USACE) 404 permit, the Virginia conditional 401 water quality certification, the FERC Environmental Impact Statement order and the FERC order approving the Certificate of Public Convenience and Necessity. Each of these challenges alleges non-compliance on the part of federal and state permitting authorities and adverse ecological consequences if the project is permitted to proceed. ACP is vigorously defending these challenges and coordinating with the federal and state authorities which are the direct parties to the challenges. Since July 2018, notable developments in these challenges include a stay issued by the U.S. Court of Appeals for the Fourth Circuit (Fourth Circuit) on construction activities through the Monongahela and George Washington National Forests, a reissuance of the project's ITS and Blue Ridge Parkway right-of-way and renewed challenges of these reissued permits, a stay issued by the Fourth Circuit of the project's biological opinion and ITS (which stay has halted most project construction activity), a Fourth Circuit decision vacating the project's permits to cross the Monongahela and George Washington National Forests and the Appalachian Trail and the Fourth Circuit's remand to USACE of ACP's Huntington District 404 verification.

The delays resulting from the legal challenges described above have impacted the cost and schedule for the project. As a result, project cost estimates have increased to \$7.0 billion to \$7.8 billion, excluding financing costs. ACP expects to achieve a late 2020 in-service date for key segments of the project, while it expects the remainder to extend into 2021. Abnormal weather, work delays (including delays due to judicial or regulatory action) and other conditions may result in cost or schedule modifications in the future.

Sabal Trail Transmission, LLC

On May 4, 2015, Duke Energy acquired a 7.5 percent ownership interest in Sabal Trail, which is accounted for as an equity method investment, from Spectra Energy Partners, LP, a master limited partnership, formed by Enbridge Inc. (formerly Spectra Energy Corp.). Spectra Energy Partners, LP holds a 50 percent ownership interest in Sabal Trail and NextEra Energy has a 42.5 percent ownership interest. Sabal Trail is a joint venture to construct a 515-mile natural gas pipeline (Sabal Trail pipeline) to transport natural gas to Florida. Total estimated project costs are approximately \$3.2 billion. The Sabal Trail pipeline traverses Alabama, Georgia and Florida. The primary customers of the Sabal Trail pipeline, Duke Energy Florida and FP&L have each contracted to buy pipeline capacity for 25-year initial terms. See Notes 12 and 17 for additional information related to Duke Energy's ownership interest.

On February 3, 2016, the FERC issued an order granting the request for a CPCN to construct and operate the pipeline. The Sabal Trail pipeline received other required regulatory approvals and the Phase 1 mainline was placed in service in July 2017. On October 12, 2017, Sabal Trail filed a request with FERC to place in-service a lateral line to Duke Energy Florida's Citrus County CC. This request is required to support commissioning and testing activities at the facility. On March 16, 2018, FERC approved the Citrus lateral and it was placed in service.

FINANCIAL STATEMENTS

REGULATORY MATTERS

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On September 21, 2016, intervenors filed an appeal of FERC's CPCN orders to the U.S. Court of Appeals for the District of Columbia Circuit (D.C. Circuit Court of Appeals). On August 22, 2017, the appeals court ruled against FERC in the case for failing to include enough information on the impact of greenhouse-gas emissions carried by the pipeline, vacated the CPCN order and remanded the case to FERC. In response to the August 2017 court decision, the FERC issued a draft Supplemental Environmental Impact Statement (SEIS) on September 27, 2017. On October 6, 2017, FERC and a group of industry intervenors, including Sabal Trail and Duke Energy Florida, filed separate petitions with the D.C. Circuit Court of Appeals requesting rehearing regarding the court's decision to vacate the CPCN order. On January 31, 2018, the D.C. Circuit Court of Appeals denied the requests for rehearing. On February 2, 2018, Sabal Trail filed a request with FERC for expedited issuance of its order on remand and reissuance of the CPCN. In the alternative, the pipeline requested that FERC issue a temporary emergency CPCN to allow for continued operations. On February 5, 2018, FERC issued the final SEIS. On February 6, 2018, FERC and the intervenors in this case each filed motions for stay with the D.C. Circuit Court to stay the court's mandate. On March 7, 2018, the D.C. Circuit Court of Appeals granted FERC and Sabal Trail's stay request. On March 14, 2018, FERC issued its final order on remand, which recertified the project. On August 10, 2018, FERC denied requests for rehearing of the final order on remand.

Constitution Pipeline Company, LLC

Duke Energy owns a 24 percent ownership interest in Constitution, which is accounted for as an equity method investment. Constitution is a natural gas pipeline project slated to transport natural gas supplies from the Marcellus supply region in northern Pennsylvania to major northeastern markets. The pipeline will be constructed and operated by Williams Partners L.P., which has a 41 percent ownership share. The remaining interest is held by Cabot Oil and Gas Corporation and WGL Holdings, Inc. Before the permitting delays discussed below, Duke Energy's total anticipated contributions were approximately \$229 million. As a result of the permitting delays and project uncertainty, total anticipated contributions by Duke Energy can no longer be reasonably estimated. Since April 2016, with the actions of the New York State Department of Environmental Conservation (NYSDEC), Constitution stopped construction and discontinued capitalization of future development costs until the project's uncertainty is resolved.

In December 2014, Constitution received approval from the FERC to construct and operate the proposed pipeline. However, on April 22, 2016, the NYSDEC denied Constitution's application for a necessary water quality certification for the New York portion of the Constitution pipeline. Constitution filed legal actions in the U.S. Court of Appeals for the Second Circuit (U.S. Court of Appeals) challenging the legality and appropriateness of the NYSDEC's decision and on August 18, 2017, the petition was denied in part and dismissed in part. In September 2017, Constitution filed a petition for a rehearing of portions of the decision unrelated to the water quality certification, which was denied by the U.S. Court of Appeals. In January 2018, Constitution petitioned the Supreme Court of the United States to review the U.S. Court of Appeals decision, and on April 30, 2018, the Supreme Court denied Constitution's petition. In October 2017, Constitution filed a petition for declaratory order requesting FERC to find that the NYSDEC waived its rights to issue a Section 401 water quality certification by not acting on Constitution's application within a reasonable period of time as required by statute. This petition was based on precedent established by another pipeline's successful petition with FERC following a District of Columbia Circuit Court ruling. On January 11, 2018, FERC denied Constitution's petition. In February 2018, Constitution filed a rehearing request with FERC of its finding that the NYSDEC did not waive the Section 401 certification requirement. On July 19, 2018, FERC denied Constitution's rehearing request. Constitution is currently unable to approximate an in-service date for the project due to the NYSDEC's denial of the water quality certification. The Constitution partners remain committed to the project and are evaluating next steps to move the project forward. On June 25, 2018, Constitution filed with FERC a Request for Extension of Time until December 2, 2020, for construction of the project. On November 5, 2018, FERC issued an Order Granting Extension of Time.

See Notes 12 and 17 for additional information related to ownership interest and carrying value of the investment.

Potential Coal Plant Retirements

The Subsidiary Registrants periodically file IRPs with their state regulatory commissions. The IRPs provide a view of forecasted energy needs over a long term (10 to 20 years) and options being considered to meet those needs. IRPs filed by the Subsidiary Registrants included planning assumptions to potentially retire certain coal-fired generating facilities in North Carolina and Indiana earlier than their current estimated useful lives primarily because facilities do not have the requisite emission control equipment to meet regulatory requirements expected to apply in the near future. Duke Energy continues to evaluate the potential need to retire these coal-fired generating facilities earlier than the current estimated useful lives and plans to seek regulatory recovery for amounts that would not be otherwise recovered when any of these assets are retired.

The table below contains the net carrying value of generating facilities planned for retirement or included in recent IRPs as evaluated for potential retirement due to a lack of requisite environmental control equipment. Dollar amounts in the table below are included in Net property, plant and equipment on the Consolidated Balance Sheets as of December 31, 2018, and exclude capitalized asset retirement costs.

	Capacity (in MW)	Remaining Net Book Value (in millions)
Duke Energy Carolinas		
Allen Steam Station Units 1-3 ^(a)	585	\$ 162
Duke Energy Indiana		
Gallagher Units 2 and 4 ^(b)	280	121
Total Duke Energy	865	\$ 283

- (a) Duke Energy Carolinas will retire Allen Steam Station Units 1 through 3 by December 31, 2024, as part of the resolution of a lawsuit involving alleged New Source Review violations.
- (b) Duke Energy Indiana committed to either retire or stop burning coal at Gallagher Units 2 and 4 by December 31, 2022, as part of the 2016 settlement of Edwardsport IGCC matters.

Refer to the "Western Carolinas Modernization Plan" discussion above for details of Duke Energy Progress' planned retirements.

5. COMMITMENTS AND CONTINGENCIES

INSURANCE

General Insurance

The Duke Energy Registrants have insurance and reinsurance coverage either directly or through indemnification from Duke Energy's captive insurance company, Bison, and its affiliates, consistent with companies engaged in similar commercial operations with similar type properties. The Duke Energy Registrants' coverage includes (i) commercial general liability coverage for liabilities arising to third parties for bodily injury and property damage; (ii) workers' compensation; (iii) automobile liability coverage; and (iv) property coverage for all real and personal property damage. Real and personal property damage coverage excludes electric transmission and distribution lines, but includes damages arising from boiler and machinery breakdowns, earthquakes, flood damage and extra expense, but not outage or replacement power coverage. All coverage is subject to certain deductibles or retentions, sublimits, exclusions, terms and conditions common for companies with similar types of operations. The Duke Energy Registrants self-insure their electric transmission and distribution lines against loss due to storm damage and other natural disasters. As discussed further in Note 4, Duke Energy Florida maintains a storm damage reserve and has a regulatory mechanism to recover the cost of named storms on an expedited basis.

The cost of the Duke Energy Registrants' coverage can fluctuate from year to year reflecting claims history and conditions of the insurance and reinsurance markets.

In the event of a loss, terms and amounts of insurance and reinsurance available might not be adequate to cover claims and other expenses incurred. Uninsured losses and other expenses, to the extent not recovered by other sources, could have a material effect on the Duke Energy Registrants' results of operations, cash flows or financial position. Each company is responsible to the extent losses may be excluded or exceed limits of the coverage available.

Nuclear Insurance

Duke Energy Carolinas owns and operates McGuire and Oconee and operates and has a partial ownership interest in Catawba. McGuire and Catawba each have two reactors. Oconee has three reactors. The other joint owners of Catawba reimburse Duke Energy Carolinas for certain expenses associated with nuclear insurance per the Catawba joint owner agreements.

Duke Energy Progress owns and operates Robinson, Brunswick and Harris. Robinson and Harris each have one reactor. Brunswick has two reactors.

Duke Energy Florida owns Crystal River Unit 3, which permanently ceased operation in 2013 and reached a SAFSTOR condition in January 2018 after the successful transfer of all used nuclear fuel assemblies to an on-site dry cask storage facility.

In the event of a loss, terms and amounts of insurance available might not be adequate to cover property damage and other expenses incurred. Uninsured losses and other expenses, to the extent not recovered by other sources, could have a material effect on Duke Energy Carolinas', Duke Energy Progress' and Duke Energy Florida's results of operations, cash flows or financial position. Each company is responsible to the extent losses may be excluded or exceed limits of the coverage available.

Nuclear Liability Coverage

The Price-Anderson Act requires owners of nuclear reactors to provide for public nuclear liability protection per nuclear incident up to a maximum total financial protection liability. The maximum total financial protection liability, which is approximately \$14.1 billion, is subject to change every five years for inflation and for the number of licensed reactors. Total nuclear liability coverage consists of a combination of private primary nuclear liability insurance coverage and a mandatory industry risk-sharing program to provide for excess nuclear liability coverage above the maximum reasonably available private primary coverage. The U.S. Congress could impose revenue-raising measures on the nuclear industry to pay claims.

Primary Liability Insurance

Duke Energy Carolinas and Duke Energy Progress have purchased the maximum reasonably available private primary nuclear liability insurance as required by law, which is \$450 million per station. Duke Energy Florida has purchased \$100 million primary nuclear liability insurance in compliance with the law.

Excess Liability Program

This program provides \$13.6 billion of coverage per incident through the Price-Anderson Act's mandatory industrywide excess secondary financial protection program of risk pooling. This amount is the product of potential cumulative retrospective premium assessments of \$138 million times the current 99 licensed commercial nuclear reactors in the U.S. Under this program, licensees could be assessed retrospective premiums to compensate for public nuclear liability damages in the event of a nuclear incident at any licensed facility in the U.S. Retrospective premiums may be assessed at a rate not to exceed \$20.5 million per year per licensed reactor for each incident. The assessment may be subject to state premium taxes.

Nuclear Property and Accidental Outage Coverage

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are members of NEIL, an industry mutual insurance company, which provides property damage, nuclear accident decontamination and premature decommissioning insurance for each station for losses resulting from damage to its nuclear plants, either due to accidents or acts of terrorism. Additionally, NEIL provides accidental outage coverage for each station for losses in the event of a major accidental outage at an insured nuclear station.

Pursuant to regulations of the NRC, each company's property damage insurance policies provide that all proceeds from such insurance be applied, first, to place the plant in a safe and stable condition after a qualifying accident and second, to decontaminate the plant before any proceeds can be used for decommissioning, plant repair or restoration.

Losses resulting from acts of terrorism are covered as common occurrences, such that if terrorist acts occur against one or more commercial nuclear power plants insured by NEIL within a 12-month period, they would be treated as one event and the owners of the plants where the act occurred would share one full limit of liability. The full limit of liability is currently \$3.2 billion. NEIL sublimits the total aggregate for all of their policies for non-nuclear terrorist events to approximately \$1.8 billion.

Each nuclear facility has accident property damage, nuclear accident decontamination and premature decommissioning liability insurance from NEIL with limits of \$1.5 billion, except for Crystal River Unit 3. Crystal River Unit 3's limit is \$50 million and is on an actual cash value basis. All nuclear facilities except for Catawba and Crystal River Unit 3 also share an additional \$1.25 billion nuclear accident insurance limit above their dedicated underlying limit. This shared additional excess limit is not subject to reinstatement in the event of a loss. Catawba has a dedicated \$1.25 billion of additional nuclear accident insurance limit above its dedicated underlying limit. Catawba and Oconee also have an additional \$750 million of non-nuclear accident property damage limit. All coverages are subject to sublimits and significant deductibles.

NEIL's Accidental Outage policy provides some coverage, such as business interruption, for losses in the event of a major accident property damage outage of a nuclear unit. Coverage is provided on a weekly limit basis after a significant waiting period deductible and at 100 percent of the available weekly limits for 52 weeks and 80 percent of the available weekly limits for the next 110 weeks. Coverage is provided until these available weekly periods are met where the accidental outage policy limit will not exceed \$490 million for McGuire, Catawba and Harris, \$476 million for Brunswick, \$462 million for Oconee and \$392 million for Robinson. NEIL sublimits the accidental outage recovery to the first 104 weeks of coverage not to exceed \$328 million from non-nuclear accidental property damage. Coverage amounts decrease in the event more than one unit at a station is out of service due to a common accident. All coverages are subject to sublimits and significant deductibles.

Potential Retroactive Premium Assessments

In the event of NEIL losses, NEIL's board of directors may assess member companies' retroactive premiums of amounts up to 10 times their annual premiums for up to six years after a loss. NEIL has never exercised this assessment. The maximum aggregate annual retrospective premium obligations for Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are \$159 million, \$97 million and \$1 million, respectively. Duke Energy Carolinas' maximum assessment amount includes 100 percent of potential obligations to NEIL for jointly owned reactors. Duke Energy Carolinas would seek reimbursement from the joint owners for their portion of these assessment amounts.

ENVIRONMENTAL

The Duke Energy Registrants are subject to federal, state and local regulations regarding air and water quality, hazardous and solid waste disposal and other environmental matters. These regulations can be changed from time to time, imposing new obligations on the Duke Energy Registrants. The following environmental matters impact all of the Duke Energy Registrants.

Remediation Activities

In addition to the ARO recorded as a result of various environmental regulations, discussed in Note 9, the Duke Energy Registrants are responsible for environmental remediation at various sites. These include certain properties that are part of ongoing operations and sites formerly owned or used by Duke Energy entities. These sites are in various stages of investigation, remediation and monitoring. Managed in conjunction with relevant federal, state and local agencies, remediation activities vary based upon site conditions and location, remediation requirements, complexity and sharing of responsibility. If remediation activities involve joint and several liability provisions, strict liability, or cost recovery or contribution actions, the Duke Energy Registrants could potentially be held responsible for environmental impacts caused by other potentially responsible parties and may also benefit from insurance policies or contractual indemnities that cover some or all cleanup costs. Liabilities are recorded when losses become probable and are reasonably estimable. The total costs that may be incurred cannot be estimated because the extent of environmental impact, allocation among potentially responsible parties, remediation alternatives and/or regulatory decisions have not yet been determined at all sites. Additional costs associated with remediation activities are likely to be incurred in the future and could be significant. Costs are typically expensed as Operation, maintenance and other in the Consolidated Statements of Operations unless regulatory recovery of the costs is deemed probable.

FINANCIAL STATEMENTS

COMMITMENTS AND CONTINGENCIES

The following tables contain information regarding reserves for probable and estimable costs related to the various environmental sites. These reserves are recorded in Accounts payable within Current Liabilities and Other within Other Noncurrent Liabilities on the Consolidated Balance Sheets.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Balance at December 31, 2015	\$ 94	\$ 10	\$ 17	\$ 3	\$ 14	\$ 54	\$ 12
Provisions/adjustments	19	4	7	2	4	7	1
Cash reductions	(15)	(4)	(6)	(2)	(4)	(2)	(3)
Balance at December 31, 2016	98	10	18	3	14	59	10
Provisions/adjustments	8	3	3	2	2	3	(4)
Cash reductions	(25)	(3)	(6)	(2)	(4)	(15)	(1)
Balance at December 31, 2017	81	10	15	3	12	47	5
Provisions/adjustments	26	3	2	3	(2)	21	1
Cash reductions	(30)	(2)	(6)	(2)	(4)	(20)	(1)
Balance at December 31, 2018	\$ 77	\$ 11	\$ 11	\$ 4	\$ 6	\$ 48	\$ 5

As of December 31, 2016, and October 31, 2016 and 2015, Piedmont's environmental reserve was \$1 million. As of December 31, 2018, and 2017, the reserve was \$2 million.

Additional losses in excess of recorded reserves that could be incurred for the stages of investigation, remediation and monitoring for environmental sites that have been evaluated at this time are not material except as presented in the table below.

(in millions)	
Duke Energy	\$ 46
Duke Energy Carolinas	17
Duke Energy Ohio	19
Piedmont	2

North Carolina and South Carolina Ash Basins

In February 2014, a break in a stormwater pipe beneath an ash basin at Duke Energy Carolinas' retired Dan River Steam Station caused a release of ash basin water and ash into the Dan River. In July 2014, Duke Energy completed remediation work identified by the EPA and continues to cooperate with the EPA's civil enforcement process. The NCDEQ has historically assessed Duke Energy Carolinas and Duke Energy Progress with NOVs for violations that were most often resolved through satisfactory corrective actions and minor, if any, fines or penalties. Subsequent to the Dan River ash release, Duke Energy Carolinas and Duke Energy Progress have been served with a higher level of NOVs, including assessed penalties for violations at Sutton and Dan River Steam Station. Duke Energy Carolinas and Duke Energy Progress continue to resolve violations through corrective actions, and associated penalties related to existing unresolved NOVs are not expected to be material.

LITIGATION

Duke Energy Carolinas and Duke Energy Progress

Coal Ash Insurance Coverage Litigation

In March 2017, Duke Energy Carolinas and Duke Energy Progress filed a civil action in the North Carolina Superior Court against various insurance providers. The lawsuit seeks payment for coal ash-related liabilities covered by third-party liability insurance policies. The insurance policies were issued between 1971 and 1986 and provide third-party liability insurance for property damage. The civil action seeks damages for breach of contract and indemnification for costs arising from the Coal Ash Act and the EPA CCR rule at 15 coal-fired plants in North Carolina and South Carolina. On January 23, 2019, the court granted the parties' joint motion for a four month stay of the proceedings, until June 3, 2019, to allow the parties to discuss potential resolution. If the case is not fully resolved at that time, litigation will resume. The trial remains scheduled for August 2020. Duke Energy Carolinas and Duke Energy Progress cannot predict the outcome of this matter.

NCDEQ State Enforcement Actions

In the first quarter of 2013, SELC sent notices of intent to sue Duke Energy Carolinas and Duke Energy Progress related to alleged CWA violations from coal ash basins at two coal-fired power plants in North Carolina. The NCDEQ filed enforcement actions against Duke Energy Carolinas and Duke Energy Progress alleging violations of water discharge permits and North Carolina groundwater standards. The cases have been consolidated and are being heard before a single judge in the North Carolina Superior Court.

On August 16, 2013, the NCDEQ filed an enforcement action against Duke Energy Carolinas and Duke Energy Progress related to the remaining coal-fired power plants in North Carolina, alleging violations of the CWA and violations of the North Carolina groundwater standards. Both of these cases have been assigned to the judge handling the enforcement actions discussed above. SELC is representing several environmental groups who have been permitted to intervene in these cases.

FINANCIAL STATEMENTS

COMMITMENTS AND CONTINGENCIES

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The court issued orders in 2016 granting Motions for Partial Summary Judgment for seven of the 14 North Carolina plants with coal ash basins named in the enforcement actions. On February 13, 2017, the court issued an order denying motions for partial summary judgment brought by both the environmental groups and Duke Energy Carolinas and Duke Energy Progress for the remaining seven plants. On March 15, 2017, Duke Energy Carolinas and Duke Energy Progress filed a Notice of Appeal with the North Carolina Court of Appeals to challenge the trial court's order. The parties were unable to reach an agreement at mediation in April 2017 and submitted briefs to the trial court on remaining issues to be tried. On August 1, 2018, the Court of Appeals dismissed the appeal and the matter is proceeding before the trial court. No trial date has been scheduled. Duke Energy Carolinas and Duke Energy Progress cannot predict the outcome of this matter.

Federal Citizens Suits

On June 13, 2016, RRBA filed a federal citizen suit in the Middle District of North Carolina alleging unpermitted discharges to surface water and groundwater violations at the Mayo Plant. On August 19, 2016, Duke Energy Progress filed a Motion to Dismiss. On April 26, 2017, the court entered an order dismissing four of the claims in the federal citizen suit. Two claims relating to alleged violations of NPDES permit provisions survived the motion to dismiss, and Duke Energy Progress filed its response on May 10, 2017. Duke Energy Progress and RRBA each filed motions for summary judgment on March 23, 2018. The court has not yet ruled on these motions.

On May 16, 2017, RRBA filed a federal citizen suit in the U.S. District Court for the Middle District of North Carolina, which asserts two claims relating to alleged violations of NPDES permit provisions at the Roxboro Plant and one claim relating to the use of nearby water bodies. Duke Energy Progress and RRBA each filed motions for summary judgment on April 17, 2018, and the court has not yet ruled on these motions.

On May 8, 2018, on motion from Duke Energy Progress, the court ordered trial in both of the above matters to be consolidated. Trial is currently scheduled to begin July 15, 2019.

On June 20, 2017, RRBA filed a federal citizen suit in the U.S. District Court for the Middle District of North Carolina challenging the closure plans at the Mayo Plant under the EPA CCR Rule. Duke Energy Progress filed a motion to dismiss, which was granted by the court on March 30, 2018. RRBA had until April 30, 2018, to file an appeal to the Fourth Circuit but did not do so.

On August 2, 2017, RRBA filed a federal citizen suit in the U.S. District Court for the Middle District of North Carolina challenging the closure plans at the Roxboro Plant under the EPA CCR Rule. Duke Energy Progress filed a motion to dismiss on October 2, 2017, which was granted by the court on May 29, 2018. RRBA had until June 28, 2018, to file an appeal to the Fourth Circuit but did not do so.

On December 5, 2017, various parties filed a federal citizen suit in the U.S. District Court for the Middle District of North Carolina for alleged violations at Duke Energy Carolinas' Belews Creek under the CWA. Duke Energy Carolinas' answer to the complaint was filed on August 27, 2018. On October 10, 2018, Duke Energy Carolinas filed Motions to Dismiss for lack of standing, Motion for Judgment on the Pleadings and Motion to Stay Discovery. On January 9, 2019, the court entered an order denying Duke Energy Carolinas' motion to stay discovery. There has been no ruling on the other pending motions.

Duke Energy Carolinas and Duke Energy Progress cannot predict the outcome of these matters.

Groundwater Contamination Claims

Beginning in May 2015, a number of residents living in the vicinity of the North Carolina facilities with ash basins received letters from the NCDEQ advising them not to drink water from the private wells on their land tested by the NCDEQ as the samples were found to have certain substances at levels higher than the criteria set by the DHHS. Results of CSAs testing performed by Duke Energy under the Coal Ash Act have been consistent with historical data provided to state regulators over many years. The DHHS and NCDEQ sent follow-up letters on October 15, 2015, to residents near coal ash basins who have had their wells tested, stating that private well samplings at a considerable distance from coal ash basins, as well as some municipal water supplies, contain similar levels of vanadium and hexavalent chromium, which led investigators to believe these constituents are naturally occurring. In March 2016, DHHS rescinded the advisories.

Duke Energy Carolinas and Duke Energy Progress have received formal demand letters from residents near Duke Energy Carolinas' and Duke Energy Progress' coal ash basins. The residents claim damages for nuisance and diminution in property value, among other things. The parties held three days of mediation discussions, which ended at impasse. On January 6, 2017, Duke Energy Carolinas and Duke Energy Progress received the plaintiffs' notice of their intent to file suits should the matter not settle. The NCDEQ preliminarily approved Duke Energy's permanent water solution plans on January 13, 2017, and as a result shortly thereafter, Duke Energy issued a press release, providing additional details regarding the homeowner compensation package. This package consists of three components: (i) a \$5,000 goodwill payment to each eligible well owner to support the transition to a new water supply, (ii) where a public water supply is available and selected by the eligible well owner, a stipend to cover 25 years of water bills and (iii) the Property Value Protection Plan. The Property Value Protection Plan is a program offered by Duke Energy designed to guarantee eligible plant neighbors the fair market value of their residential property should they decide to sell their property during the time that the plan is offered. Payments are being made and the remaining reserves are not material.

On August 23, 2017, a class-action suit was filed in Wake County Superior Court, North Carolina, against Duke Energy Carolinas and Duke Energy Progress on behalf of certain property owners living near coal ash impoundments at Allen, Asheville, Belews Creek, Buck, Cliffside, Lee, Marshall, Mayo and Roxboro. The class is defined as those who are well-eligible under the Coal Ash Act or those to whom Duke Energy has promised a permanent replacement water supply and seeks declaratory and injunctive relief, along with compensatory damages. Plaintiffs allege that Duke Energy's improper maintenance of coal ash impoundments caused harm, particularly through groundwater contamination. Despite NCDEQ's preliminary approval, Plaintiffs contend that Duke Energy's proposed permanent water solutions plan fails to comply with the Coal Ash Act. On September 28, 2017, Duke Energy Carolinas and Duke Energy Progress filed a Motion to Dismiss and Motion to Strike the class designation. The parties entered into a Settlement Agreement on January 24, 2018, which resulted in the dismissal of the underlying class action on January 25, 2018.

On September 14, 2017, a complaint was filed against Duke Energy Progress in New Hanover County Superior Court by a group of homeowners residing approximately 1 mile from Duke Energy Progress' Sutton Steam Plant. The homeowners allege that coal ash constituents have been migrating from ash impoundments at Sutton into their groundwater for decades and that in 2015, Duke Energy Progress discovered these releases of coal ash, but failed to notify any officials or neighbors and failed to take remedial action. The homeowners claim unspecified physical and mental injuries as a result of consuming their well water and seek actual damages for personal injury, medical monitoring and punitive damages. On March 6, 2018, Plaintiffs' counsel voluntarily dismissed the action without prejudice.

Duke Energy Carolinas

Asbestos-related Injuries and Damages Claims

Duke Energy Carolinas has experienced numerous claims for indemnification and medical cost reimbursement related to asbestos exposure. These claims relate to damages for bodily injuries alleged to have arisen from exposure to or use of asbestos in connection with construction and maintenance activities conducted on its electric generation plants prior to 1985. As of December 31, 2018, there were 164 asserted claims for non-malignant cases with the cumulative relief sought of up to \$42 million and 87 asserted claims for malignant cases with the cumulative relief sought of up to \$21 million. Based on Duke Energy Carolinas' experience, it is expected that the ultimate resolution of most of these claims likely will be less than the amount claimed.

Duke Energy Carolinas has recognized asbestos-related reserves of \$630 million and \$489 million at December 31, 2018, and 2017, respectively. These reserves are classified in Other within Other Noncurrent Liabilities and Other within Current Liabilities on the Consolidated Balance Sheets. These reserves are based upon Duke Energy Carolinas' best estimate for current and future asbestos claims through 2038 and are recorded on an undiscounted basis. In light of the uncertainties inherent in a longer-term forecast, management does not believe they can reasonably estimate the indemnity and medical costs that might be incurred after 2038 related to such potential claims. It is possible Duke Energy Carolinas may incur asbestos liabilities in excess of the recorded reserves.

Duke Energy Carolinas has third-party insurance to cover certain losses related to asbestos-related injuries and damages above an aggregate self-insured retention. Duke Energy Carolinas' cumulative payments began to exceed the self-insurance retention in 2008. Future payments up to the policy limit will be reimbursed by the third-party insurance carrier. The insurance policy limit for potential future insurance recoveries indemnification and medical cost claim payments is \$764 million in excess of the self-insured retention. Receivables for insurance recoveries were \$739 million and \$585 million at December 31, 2018, and 2017, respectively. These amounts are classified in Other within Other Noncurrent Assets and Receivables within Current Assets on the Consolidated Balance Sheets. Duke Energy Carolinas is not aware of any uncertainties regarding the legal sufficiency of insurance claims. Duke Energy Carolinas believes the insurance recovery asset is probable of recovery as the insurance carrier continues to have a strong financial strength rating.

Duke Energy Progress and Duke Energy Florida

Spent Nuclear Fuel Matters

On October 16, 2014, Duke Energy Progress and Duke Energy Florida sued the U.S. in the U.S. Court of Federal Claims. The lawsuit claimed the Department of Energy breached a contract in failing to accept spent nuclear fuel under the Nuclear Waste Policy Act of 1982 and asserted damages for the cost of on-site storage. Duke Energy Progress and Duke Energy Florida asserted damages for the period January 1, 2011, through December 31, 2013, of \$48 million and \$25 million, respectively. On November 17, 2017, the Court awarded Duke Energy Progress and Duke Energy Florida \$48 million and \$21 million, respectively, subject to appeal. No appeals were filed and Duke Energy Progress and Duke Energy Florida recognized the recoveries in the first quarter of 2018. Claims for all periods through 2013 have been resolved. On June 22, 2018, Duke Energy Progress and Duke Energy Florida filed a complaint for damages incurred for 2014 through first quarter 2018.

Duke Energy Progress

Gypsum Supply Agreements Matter

On June 30, 2017, CertainTeed filed a declaratory judgment action against Duke Energy Progress in the North Carolina Business Court relating to a gypsum supply agreement. In its complaint, CertainTeed sought an order from the court declaring that the minimum amount of gypsum Duke Energy Progress must provide to CertainTeed under the supply agreement was 50,000 tons per month through 2029. Trial in this matter was completed on July 16, 2018. On August 29, 2018, the court issued an order and opinion finding that Duke Energy Progress is required to supply 50,000 tons of gypsum/month, but that CertainTeed's sole remedy for Duke Energy Progress' long-term discontinuance under the agreement is liquidated damages. On November 14, 2018, the parties reached a settlement agreement. The amount owed under the liquidated damages provision is approximately \$90 million on an undiscounted basis over 10 years. Approximately \$3 million was paid in 2018. As of December 31, 2018, \$9 million is recorded in Accounts payable within Current Liabilities and \$63 million in Other within Other Noncurrent Liabilities on the Consolidated Balance Sheets. The liability is recorded on a discounted basis at a rate of approximately 4 percent. These costs are probable of recovery from customers and are recorded in Regulatory Assets within Other Noncurrent Assets on the Consolidated Balance Sheets.

FINANCIAL STATEMENTS

COMMITMENTS AND CONTINGENCIES

Duke Energy Florida

Fluor Contract Litigation

On January 29, 2019, Fluor filed a breach of contract lawsuit in the U.S. District Court for the Middle District of Florida against Duke Energy Florida related to an EPC agreement for the combined-cycle natural gas plant in Citrus County, Florida. Fluor filed an amended complaint on February, 13, 2019. Fluor's multicount complaint seeks civil, statutory and contractual remedies related to Duke Energy Florida's \$67 million draw in early 2019, on Fluor's letter of credit and offset of invoiced amounts. Duke Energy Florida is attempting to recover from Fluor \$110 million in additional costs incurred by Duke Energy Florida. Duke Energy Florida cannot predict the outcome of this matter. See Note 4 for additional information.

Class-Action Lawsuit

On February 22, 2016, a lawsuit was filed in the U.S. District Court for the Southern District of Florida on behalf of a class of Duke Energy Florida and FP&L's customers in Florida. The suit alleges the State of Florida's NCRS are unconstitutional and pre-empted by federal law. Plaintiffs claim they are entitled to repayment of all money paid by customers of Duke Energy Florida and FP&L as a result of the NCRS, as well as an injunction against any future charges under those statutes. The constitutionality of the NCRS has been challenged unsuccessfully in a number of prior cases on alternative grounds. Duke Energy Florida and FP&L filed motions to dismiss the complaint on May 5, 2016. On September 21, 2016, the Court granted the motions to dismiss with prejudice. Plaintiffs filed a motion for reconsideration, which was denied. On January 4, 2017, plaintiffs filed a notice of appeal to the Eleventh Circuit U.S. Court of Appeals (Eleventh Circuit). On July 11, 2018, the Eleventh Circuit affirmed the U.S. District Court's dismissal of the lawsuit. The deadline to file a petition for cert was October 9, 2018, and no petition was filed; therefore, the dismissal of the lawsuit is final.

Westinghouse Contract Litigation

On March 28, 2014, Duke Energy Florida filed a lawsuit against Westinghouse in the U.S. District Court for the Western District of North Carolina. The lawsuit seeks recovery of \$54 million in milestone payments in excess of work performed under an EPC for Levy as well as a determination by the court of the amounts due to Westinghouse as a result of the termination of an EPC contract. Duke Energy Florida recognized an exit obligation as a result of the termination of the EPC. On March 31, 2014, Westinghouse filed a separate lawsuit against Duke Energy Florida in U.S. District Court for the Western District of Pennsylvania alleging damages under the same EPC contract in excess of \$510 million for engineering and design work, costs to end supplier contracts and an alleged termination fee. On June 9, 2014, the judge in the North Carolina case ruled that the litigation will proceed in the Western District of North Carolina.

On July 11, 2016, Duke Energy Florida and Westinghouse filed separate Motions for Summary Judgment. On September 29, 2016, the court issued its ruling, granting Westinghouse a \$30 million termination fee claim and dismissing Duke Energy Florida's \$54 million refund claim. Westinghouse's claim for termination costs continued to trial. Following a trial on the matter, the court issued an order in December 2016 denying Westinghouse's claim for termination costs and reaffirming its earlier ruling in favor of Westinghouse on the \$30 million termination fee. Judgment was entered against Duke Energy Florida in the amount of approximately \$34 million, which includes prejudgment interest. Westinghouse appealed the trial court's order to the Fourth Circuit and Duke Energy Florida cross-appealed.

On March 29, 2017, Westinghouse filed Chapter 11 bankruptcy in the Southern District of New York, which automatically stayed the appeal. On May 23, 2017, the bankruptcy court entered an order lifting the stay with respect to the appeal. Westinghouse and Duke Energy Florida executed a settlement agreement resolving this matter on April 5, 2018. The bankruptcy court approved the settlement and Duke Energy Florida paid approximately \$34 million to Westinghouse in July 2018 pursuant to this agreement. At the request of the parties, the Fourth Circuit has dismissed the appeal.

MGP Cost Recovery Action

On December 30, 2011, Duke Energy Florida filed a lawsuit against FirstEnergy to recover investigation and remediation costs incurred by Duke Energy Florida in connection with the restoration of two former MGP sites in Florida. Duke Energy Florida alleged that FirstEnergy, as the successor to Associated Gas & Electric Co., owes past and future contribution and response costs of up to \$43 million for the investigation and remediation of MGP sites. On December 6, 2016, the trial court entered judgment against Duke Energy Florida in the case. In January 2017, Duke Energy Florida appealed the decision to the U.S. Court of Appeals for the Sixth Circuit, which affirmed the trial court's ruling on April 10, 2018. The dismissal of the lawsuit is therefore final.

Other Litigation and Legal Proceedings

The Duke Energy Registrants are involved in other legal, tax and regulatory proceedings arising in the ordinary course of business, some of which involve significant amounts. The Duke Energy Registrants believe the final disposition of these proceedings will not have a material effect on their results of operations, cash flows or financial position.

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FINANCIAL STATEMENTS

COMMITMENTS AND CONTINGENCIES

The table below presents recorded reserves based on management's best estimate of probable loss for legal matters, excluding asbestos-related reserves, the CertainTeed liquidated damages obligation and the exit obligation in 2017 related to the termination of an EPC contract. Reserves are classified on the Consolidated Balance Sheets in Other within Other Noncurrent Liabilities and Other within Current Liabilities. The reasonably possible range of loss in excess of recorded reserves is not material, other than as described above.

(in millions)	December 31,	
	2018	2017
Reserves for Legal Matters		
Duke Energy	\$ 65	\$ 88
Duke Energy Carolinas	9	30
Progress Energy	54	55
Duke Energy Progress	12	13
Duke Energy Florida	24	24
Piedmont	1	2

OTHER COMMITMENTS AND CONTINGENCIES

General

As part of their normal business, the Duke Energy Registrants are party to various financial guarantees, performance guarantees and other contractual commitments to extend guarantees of credit and other assistance to various subsidiaries, investees and other third parties. These guarantees involve elements of performance and credit risk, which are not fully recognized on the Consolidated Balance Sheets and have unlimited maximum potential payments. However, the Duke Energy Registrants do not believe these guarantees will have a material effect on their results of operations, cash flows or financial position.

Purchase Obligations

Purchased Power

Duke Energy Progress, Duke Energy Florida and Duke Energy Ohio have ongoing purchased power contracts, including renewable energy contracts, with other utilities, wholesale marketers, co-generators and qualified facilities. These purchased power contracts generally provide for capacity and energy payments. In addition, Duke Energy Progress and Duke Energy Florida have various contracts to secure transmission rights.

The following table presents executory purchased power contracts with terms exceeding one year, excluding contracts classified as leases.

	Minimum Purchase Amount at December 31, 2018								
	Contract								
(in millions)	Expiration	2019	2020	2021	2022	2023	Thereafter	Total	
Duke Energy Progress ^(a)	2022-2031	\$ 51	\$ 52	\$ 53	\$ 30	\$ 25	\$ 215	\$ 426	
Duke Energy Florida ^(b)	2021-2025	363	380	365	363	382	361	2,214	
Duke Energy Ohio ^{(c)(d)}	2020-2022	146	117	53	11	—	—	327	

- (a) Contracts represent 100 percent of net plant output.
- (b) Contracts represent between 81 percent and 100 percent of net plant output.
- (c) Contracts represent between 1 percent and 8 percent of net plant output.
- (d) Excludes PPA with OVEC. See Note 17 for additional information.

Gas Supply and Capacity Contracts

Duke Energy Ohio and Piedmont routinely enter into long-term natural gas supply commodity and capacity commitments and other agreements that commit future cash flows to acquire services needed in their businesses. These commitments include pipeline and storage capacity contracts and natural gas supply contracts to provide service to customers. Costs arising from the natural gas supply commodity and capacity commitments, while significant, are pass-through costs to customers and are generally fully recoverable through the fuel adjustment or PGA procedures and prudence reviews in North Carolina and South Carolina and under the Tennessee Incentive Plan in Tennessee. In the Midwest, these costs are recovered via the Gas Cost Recovery Rate in Ohio or the Gas Cost Adjustment Clause in Kentucky. The time periods for fixed payments under pipeline and storage capacity contracts are up to 16 years. The time periods for fixed payments under natural gas supply contracts are up to seven years. The time period for the natural gas supply purchase commitments is up to 12 years.

Certain storage and pipeline capacity contracts require the payment of demand charges that are based on rates approved by the FERC in order to maintain rights to access the natural gas storage or pipeline capacity on a firm basis during the contract term. The demand charges that are incurred in each period are recognized in the Consolidated Statements of Operations and Comprehensive Income as part of natural gas purchases and are included in Cost of natural gas.

FINANCIAL STATEMENTS

COMMITMENTS AND CONTINGENCIES

The following table presents future unconditional purchase obligations under natural gas supply and capacity contracts as of December 31, 2018.

(in millions)	Duke Energy	Duke Energy Ohio	Piedmont
2019	\$ 314	\$ 38	\$ 276
2020	287	30	257
2021	255	29	226
2022	225	11	214
2023	148	4	144
Thereafter	1,067	—	1,067
Total	\$ 2,296	\$ 112	\$ 2,184

Operating and Capital Lease Commitments

The Duke Energy Registrants lease office buildings, railcars, vehicles and other property and equipment with various terms and expiration dates. Additionally, Duke Energy Carolinas and Duke Energy Progress have capital leases related to firm natural gas pipeline transportation capacity. Duke Energy Progress and Duke Energy Florida have entered into certain purchased power agreements, which are classified as leases. Consolidated capitalized lease obligations are classified as Long-Term Debt or Other within Current Liabilities on the Consolidated Balance Sheets. Amortization of assets recorded under capital leases is included in Depreciation and amortization and Fuel used in electric generation and purchased power on the Consolidated Statements of Operations.

The following tables present rental expense for operating leases. These amounts are included in Operation, maintenance and other and Fuel used in electric generation and purchased power on the Consolidated Statements of Operations.

(in millions)	Years Ended December 31,		
	2018	2017	2016
Duke Energy	\$ 268	\$ 241	\$ 242
Duke Energy Carolinas	49	44	45
Progress Energy	143	130	140
Duke Energy Progress	75	75	68
Duke Energy Florida	68	55	72
Duke Energy Ohio	13	15	16
Duke Energy Indiana	21	23	23

(in millions)	Years Ended December 31,		Two Months Ended	Year Ended
	2018	2017	December 31,	October 31,
Piedmont	\$ 11	\$ 7	\$ 1	\$ 5

The following table presents future minimum lease payments under operating leases, which at inception had a non-cancelable term of more than one year.

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
	\$	\$	\$	\$	\$	\$	\$	\$
2019	239	33	97	49	48	2	6	5
2020	219	29	90	46	44	2	5	5
2021	186	19	79	37	42	2	4	5
2022	170	19	76	34	42	2	4	5
2023	160	17	77	35	42	2	5	6
Thereafter	1,017	68	455	314	141	23	66	11
Total	\$ 1,991	\$ 185	\$ 874	\$ 515	\$ 359	\$ 33	\$ 90	\$ 37

FINANCIAL STATEMENTS

COMMITMENTS AND CONTINGENCIES

The following table presents future minimum lease payments under capital leases.

(in millions)	December 31, 2018						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
2019	\$ 170	\$ 20	\$ 45	\$ 20	\$ 25	\$ 2	\$ 1
2020	174	20	46	21	25	—	1
2021	177	15	45	20	25	—	1
2022	165	15	45	21	24	—	1
2023	165	15	45	21	24	—	1
Thereafter	577	204	230	209	21	—	27
Minimum annual payments	1,428	289	456	312	144	2	32
Less: amount representing interest	(487)	(180)	(205)	(175)	(30)	—	(22)
Total	\$ 941	\$ 109	\$ 251	\$ 137	\$ 114	\$ 2	\$ 10

6. DEBT AND CREDIT FACILITIES

Summary of Debt and Related Terms

The following tables summarize outstanding debt.

(in millions)	December 31, 2018								
	Weighted Average Interest Rate	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unsecured debt, maturing 2019-2078	4.26%	\$ 20,955	\$ 1,150	\$ 3,800	\$ 50	\$ 350	\$ 1,000	\$ 408	\$ 2,150
Secured debt, maturing 2020-2037	3.69%	4,297	450	1,703	300	1,403	—	—	—
First mortgage bonds, maturing 2019-2048 ^(a)	4.32%	25,628	8,759	13,100	7,574	5,526	1,099	2,670	—
Capital leases, maturing 2019-2051 ^(b)	5.06%	941	109	251	137	114	2	10	—
Tax-exempt bonds, maturing 2019-2041 ^(c)	3.40%	941	243	48	48	—	77	572	—
Notes payable and commercial paper ^(d)	2.73%	4,035	—	—	—	—	—	—	—
Money pool/intercompany borrowings	—	—	739	1,385	444	108	299	317	198
Fair value hedge carrying value adjustment	—	5	5	—	—	—	—	—	—
Unamortized debt discount and premium, net ^(e)	—	1,434	(23)	(29)	(15)	(11)	(31)	(8)	(1)
Unamortized debt issuance costs ^(f)	—	(297)	(54)	(112)	(40)	(61)	(7)	(20)	(11)
Total debt	4.13%	\$ 57,939	\$ 11,378	\$ 20,146	\$ 8,498	\$ 7,429	\$ 2,439	\$ 3,949	\$ 2,336
Short-term notes payable and commercial paper	—	(3,410)	—	—	—	—	—	—	—
Short-term money pool/intercompany borrowings	—	—	(439)	(1,235)	(294)	(108)	(274)	(167)	(198)
Current maturities of long-term debt ^(g)	—	(3,406)	(6)	(1,672)	(603)	(270)	(551)	(63)	(350)
Total long-term debt ^(g)	—	\$ 51,123	\$ 10,933	\$ 17,239	\$ 7,601	\$ 7,051	\$ 1,614	\$ 3,719	\$ 1,788

FINANCIAL STATEMENTS

DEBT AND CREDIT FACILITIES

- (a) Substantially all electric utility property is mortgaged under mortgage bond indentures.
- (b) Duke Energy includes \$63 million and \$531 million of capital lease purchase accounting adjustments related to Duke Energy Progress and Duke Energy Florida, respectively, related to power purchase agreements that are not accounted for as capital leases in their respective financial statements because of grandfathering provisions in GAAP.
- (c) Substantially all tax-exempt bonds are secured by first mortgage bonds, letters of credit or the Master Credit Facility.
- (d) Includes \$625 million that was classified as Long-Term Debt on the Consolidated Balance Sheets due to the existence of long-term credit facilities that backstop these commercial paper balances, along with Duke Energy's ability and intent to refinance these balances on a long-term basis. The weighted average days to maturity for Duke Energy's commercial paper program was 16 days.
- (e) Duke Energy includes \$1,380 million and \$156 million in purchase accounting adjustments related to Progress Energy and Piedmont, respectively.
- (f) Duke Energy includes \$41 million in purchase accounting adjustments primarily related to the merger with Progress Energy.
- (g) Refer to Note 17 for additional information on amounts from consolidated VIEs.

December 31, 2017									
(in millions)	Weighted	Duke		Duke		Duke		Duke	
	Average	Duke	Energy	Progress	Energy	Energy	Energy	Energy	Piedmont
	Interest	Energy	Carolinas	Energy	Progress	Florida	Ohio	Indiana	
	Rate								
Unsecured debt, maturing 2018-2073	4.17%	\$ 20,409	\$ 1,150	\$ 3,950	\$ —	\$ 550	\$ 900	\$ 411	\$ 2,050
Secured debt, maturing 2018-2037	3.15%	4,458	450	1,757	300	1,457	—	—	—
First mortgage bonds, maturing 2018-2047 ^(a)	4.51%	23,529	7,959	11,801	6,776	5,025	1,100	2,669	—
Capital leases, maturing 2018-2051 ^(b)	4.55%	1,000	61	269	139	129	5	11	—
Tax-exempt bonds, maturing 2019-2041 ^(c)	3.23%	941	243	48	48	—	77	572	—
Notes payable and commercial paper ^(d)	1.57%	2,788	—	—	—	—	—	—	—
Money pool/intercompany borrowings		—	404	955	390	—	54	311	364
Fair value hedge carrying value adjustment		6	6	—	—	—	—	—	—
Unamortized debt discount and premium, net ^(e)		1,582	(19)	(30)	(16)	(10)	(33)	(9)	(1)
Unamortized debt issuance costs ^(f)		(271)	(47)	(108)	(40)	(56)	(7)	(21)	(12)
Total debt	4.09%	\$ 54,442	\$ 10,207	\$ 18,642	\$ 7,597	\$ 7,095	\$ 2,096	\$ 3,944	\$ 2,401
Short-term notes payable and commercial paper		(2,163)	—	—	—	—	—	—	—
Short-term money pool/intercompany borrowings		—	(104)	(805)	(240)	—	(29)	(161)	(364)
Current maturities of long-term debt ^(g)		(3,244)	(1,205)	(771)	(3)	(768)	(3)	(3)	(250)
Total long-term debt^(g)		\$ 49,035	\$ 8,898	\$ 17,066	\$ 7,354	\$ 6,327	\$ 2,064	\$ 3,780	\$ 1,787

- (a) Substantially all electric utility property is mortgaged under mortgage bond indentures.
- (b) Duke Energy includes \$81 million and \$603 million of capital lease purchase accounting adjustments related to Duke Energy Progress and Duke Energy Florida, respectively, related to power purchase agreements that are not accounted for as capital leases in their respective financial statements because of grandfathering provisions in GAAP.
- (c) Substantially all tax-exempt bonds are secured by first mortgage bonds, letters of credit or the Master Credit Facility.
- (d) Includes \$625 million that was classified as Long-Term Debt on the Consolidated Balance Sheets due to the existence of long-term credit facilities that backstop these commercial paper balances, along with Duke Energy's ability and intent to refinance these balances on a long-term basis. The weighted average days to maturity for Duke Energy's commercial paper programs was 14 days.
- (e) Duke Energy includes \$1,509 million and \$176 million purchase accounting adjustments related to the mergers with Progress Energy and Piedmont, respectively.
- (f) Duke Energy includes \$47 million in purchase accounting adjustments primarily related to the merger with Progress Energy.
- (g) Refer to Note 17 for additional information on amounts from consolidated VIEs.

FINANCIAL STATEMENTS

DEBT AND CREDIT FACILITIES

Current Maturities of Long-Term Debt

The following table shows the significant components of Current maturities of Long-Term Debt on the Consolidated Balance Sheets. The Duke Energy Registrants currently anticipate satisfying these obligations with cash on hand and proceeds from additional borrowings.

(in millions)	Maturity Date	Interest Rate	December 31, 2018
Unsecured Debt			
Progress Energy	March 2019	7.050%	\$ 450
Duke Energy (Parent)	September 2019	5.050%	500
Piedmont	September 2019	3.155% ^(b)	350
Duke Energy Kentucky	October 2019	4.65%	100
Progress Energy	December 2019	4.875%	350
First Mortgage Bonds			
Duke Energy Progress	January 2019	5.300%	600
Duke Energy Ohio	April 2019	5.450%	450
Other^(a)			606
Current maturities of long-term debt			\$ 3,406

(a) Includes capital lease obligations, amortizing debt and small bullet maturities.

(b) Debt has a floating interest rate.

Maturities and Call Options

The following table shows the annual maturities of long-term debt for the next five years and thereafter. Amounts presented exclude short-term notes payable and commercial paper and money pool borrowings for the Subsidiary Registrants.

(in millions)	December 31, 2018							
	Duke Energy ^(a)	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
2019	\$ 3,408	\$ 6	\$ 1,674	\$ 603	\$ 270	552	\$ 63	\$ 350
2020	3,765	907	926	354	572	—	503	—
2021	4,803	503	2,004	904	600	50	70	160
2022	2,745	353	1,032	505	77	—	94	—
2023	3,375	1,303	535	456	79	350	153	45
Thereafter	35,288	7,940	12,880	5,437	5,793	1,251	2,925	1,595
Total long-term debt, including current maturities	\$ 53,384	\$ 11,012	\$ 19,051	\$ 8,259	\$ 7,391	\$ 2,203	\$ 3,808	\$ 2,150

(a) Excludes \$1,578 million in purchase accounting adjustments related to the Progress Energy merger and the Piedmont acquisition.

The Duke Energy Registrants have the ability under certain debt facilities to call and repay the obligation prior to its scheduled maturity. Therefore, the actual timing of future cash repayments could be materially different than as presented above.

FINANCIAL STATEMENTS

DEBT AND CREDIT FACILITIES

Short-Term Obligations Classified as Long-Term Debt

Tax-exempt bonds that may be put to the Duke Energy Registrants at the option of the holder and certain commercial paper issuances and money pool borrowings are classified as Long-Term Debt on the Consolidated Balance Sheets. These tax-exempt bonds, commercial paper issuances and money pool borrowings, which are short-term obligations by nature, are classified as long term due to Duke Energy's intent and ability to utilize such borrowings as long-term financing. As Duke Energy's Master Credit Facility and other bilateral letter of credit agreements have non-cancelable terms in excess of one year as of the balance sheet date, Duke Energy has the ability to refinance these short-term obligations on a long-term basis. The following tables show short-term obligations classified as long-term debt.

(in millions)	December 31, 2018				
	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Ohio	Duke Energy Indiana
Tax-exempt bonds	\$ 312	\$ —	\$ —	\$ 27	\$ 285
Commercial paper ^(a)	625	300	150	25	150
Total	\$ 937	\$ 300	\$ 150	\$ 52	\$ 435

(in millions)	December 31, 2017				
	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Ohio	Duke Energy Indiana
Tax-exempt bonds	\$ 312	\$ —	\$ —	\$ 27	\$ 285
Commercial paper ^(a)	625	300	150	25	150
Total	\$ 937	\$ 300	\$ 150	\$ 52	\$ 435

(a) Progress Energy amounts are equal to Duke Energy Progress amounts.

FINANCIAL STATEMENTS

DEBT AND CREDIT FACILITIES

Summary of Significant Debt Issuances

In January 2019, Duke Energy Ohio issued \$800 million of first mortgage bonds. The issuance was split between a \$400 million, 10-year tranche at 3.65 percent and a \$400 million, 30-year tranche at 4.30 percent. The net proceeds will be used to refinance \$450 million of Duke Energy Ohio bonds maturing in April 2019, to pay down short-term debt and for general corporate purposes.

The following tables summarize significant debt issuances (in millions).

Issuance Date	Maturity Date	Interest Rate	Year Ended December 31, 2018				
			Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida
Unsecured Debt							
March 2018 ^(a)	April 2025	3.950%	\$ 250	\$ 250	\$ —	\$ —	\$ —
May 2018 ^(b)	May 2021	3.114%	500	500	—	—	—
September 2018 ^(c)	September 2078	5.625%	500	500	—	—	—
First Mortgage Bonds							
March 2018 ^(d)	March 2023	3.050%	500	—	500	—	—
March 2018 ^(d)	March 2048	3.950%	500	—	500	—	—
June 2018 ^(e)	July 2028	3.800%	600	—	—	—	600
June 2018 ^(e)	July 2048	4.200%	400	—	—	—	400
August 2018 ^(f)	September 2023	3.375%	300	—	—	300	—
August 2018 ^(f)	September 2028	3.700%	500	—	—	500	—
November 2018 ^(g)	May 2022	3.350%	350	—	350	—	—
November 2018 ^(g)	November 2028	3.950%	650	—	650	—	—
Total issuances			\$ 5,050	\$ 1,250	\$ 2,000	\$ 800	\$ 1,000

- (a) Debt issued to pay down short-term debt.
- (b) Debt issued to pay down short-term debt. Debt issuance has a floating debt rate.
- (c) Callable after September 2023 at par. Junior subordinated hybrid debt issued to pay down short-term debt and for general corporate purposes.
- (d) Debt issued to repay at maturity a \$300 million first mortgage bond due April 2018, pay down intercompany short-term debt and for general corporate purposes.
- (e) Debt issued to repay a portion of intercompany short-term debt under the money pool borrowing arrangement and for general corporate purposes.
- (f) Debt issued to repay short-term debt and for general corporate purposes.
- (g) Debt issued to fund eligible green energy projects, including zero-carbon solar and energy storage, in the Carolinas.

FINANCIAL STATEMENTS

DEBT AND CREDIT FACILITIES

Issuance Date	Maturity Date	Interest Rate	Year Ended December 31, 2017						
			Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	
Unsecured Debt									
April 2017 ^(a)	April 2025	3.364%	\$ 420	\$ 420	\$ —	\$ —	\$ —	\$ —	\$ —
June 2017 ^(b)	June 2020	2.100%	330	330	—	—	—	—	—
August 2017 ^(c)	August 2022	2.400%	500	500	—	—	—	—	—
August 2017 ^(c)	August 2027	3.150%	750	750	—	—	—	—	—
August 2017 ^(c)	August 2047	3.950%	500	500	—	—	—	—	—
December 2017 ^(d)	December 2019 ^(k)	2.100%	400	—	—	—	400	—	—
Secured Debt									
February 2017 ^(e)	June 2034	4.120%	587	—	—	—	—	—	—
August 2017 ^(f)	December 2036	4.110%	233	—	—	—	—	—	—
First Mortgage Bonds									
January 2017 ^(g)	January 2020	1.850%	250	—	—	—	250	—	—
January 2017 ^(g)	January 2027	3.200%	650	—	—	—	650	—	—
March 2017 ^(h)	June 2046	3.700%	100	—	—	—	—	—	100
September 2017 ⁽ⁱ⁾	September 2020	1.500% ^(l)	300	—	—	300	—	—	—
September 2017 ⁽ⁱ⁾	September 2047	3.600%	500	—	—	500	—	—	—
November 2017 ^(j)	December 2047	3.700%	550	—	550	—	—	—	—
Total issuances			\$ 6,070	\$ 2,500	\$ 550	\$ 800	\$ 1,300	\$ 100	

- (a) Proceeds were used to refinance \$400 million of unsecured debt at maturity and to repay a portion of outstanding commercial paper.
- (b) Debt issued to repay a portion of outstanding commercial paper.
- (c) Debt issued to repay at maturity \$700 million of unsecured debt, to repay outstanding commercial paper and for general corporate purposes.
- (d) Debt issued to fund storm restoration costs related to Hurricane Irma and for general corporate purposes.
- (e) Portfolio financing of four Texas and Oklahoma wind facilities. Duke Energy pledged substantially all of the assets of these wind facilities and is nonrecourse to Duke Energy. Proceeds were used to reimburse Duke Energy for a portion of previously funded construction expenditures.
- (f) Portfolio financing of eight solar facilities located in California, Colorado and New Mexico. Duke Energy pledged substantially all of the assets of these solar facilities and is nonrecourse to Duke Energy. Proceeds were used to reimburse Duke Energy for a portion of previously funded construction expenditures.
- (g) Debt issued to fund capital expenditures for ongoing construction and capital maintenance, to repay a \$250 million aggregate principal amount of bonds at maturity and for general corporate purposes.
- (h) Proceeds were used to fund capital expenditures for ongoing construction, capital maintenance and for general corporate purposes.
- (i) Debt issued to repay at maturity a \$200 million aggregate principal amount of bonds at maturity, pay down intercompany short-term debt and for general corporate purposes, including capital expenditures.
- (j) Debt issued to refinance \$400 million aggregate principal amount of bonds due January 2018, pay down intercompany short-term debt and for general corporate purposes.
- (k) Principal balance will be repaid in equal quarterly installments beginning in March 2018.
- (l) Debt issuance has a floating interest rate.

Available Credit Facilities

In January 2018, Duke Energy extended the termination date of substantially all of its existing \$8 billion Master Credit Facility capacity from March 16, 2022, to March 16, 2023. In May 2018, Duke Energy completed the extension process with 100 percent of all commitments to the Master Credit Facility extending to March 16, 2023. The Duke Energy Registrants, excluding Progress Energy (Parent), have borrowing capacity under the Master Credit Facility up to specified sublimits for each borrower. Duke Energy has the unilateral ability at any time to increase or decrease the borrowing sublimits of each borrower, subject to a maximum sublimit for each borrower. The amount available under the Master Credit Facility has been reduced to backstop issuances of commercial paper, certain letters of credit and variable-rate demand tax-exempt bonds that may be put to the Duke Energy Registrants at the option of the holder. Duke Energy Carolinas and Duke Energy Progress are also required to each maintain \$250 million of available capacity under the Master Credit Facility as security to meet obligations under plea agreements reached with the U.S. Department of Justice in 2015 related to violations at North Carolina facilities with ash basins.

FINANCIAL STATEMENTS

DEBT AND CREDIT FACILITIES

The table below includes the current borrowing sublimits and available capacity under these credit facilities.

(in millions)	December 31, 2018							Piedmont
	Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	
Facility size ^(a)	\$ 8,000	\$ 2,650	\$ 1,750	\$ 1,400	\$ 650	\$ 450	\$ 600	\$ 500
Reduction to backstop issuances								
Commercial paper ^(b)	(3,022)	(917)	(739)	(444)	(108)	(299)	(317)	(198)
Outstanding letters of credit	(53)	(45)	(4)	(2)	—	—	—	(2)
Tax-exempt bonds	(81)	—	—	—	—	—	(81)	—
Coal ash set-aside	(500)	—	(250)	(250)	—	—	—	—
Available capacity	\$ 4,344	\$ 1,688	\$ 757	\$ 704	\$ 542	\$ 151	\$ 202	\$ 300

(a) Represents the sublimit of each borrower.

(b) Duke Energy issued \$625 million of commercial paper and loaned the proceeds through the money pool to Duke Energy Carolinas, Duke Energy Progress, Duke Energy Ohio and Duke Energy Indiana. The balances are classified as Long-Term Debt Payable to Affiliated Companies in the Consolidated Balance Sheets.

Three-Year Revolving Credit Facility

Duke Energy (Parent) has a \$1.0 billion revolving credit facility through June 2020. Borrowings under this facility will be used for general corporate purposes. As of December 31, 2018, \$500 million has been drawn under the Three Year Revolver. This balance is classified as Long-term debt on Duke Energy's Consolidated Balance Sheets. Any undrawn commitments can be drawn, and borrowings can be prepaid, at any time throughout the term of the facility. The terms and conditions of the Three Year Revolver are generally consistent with those governing Duke Energy's Master Credit Facility.

Duke Energy Progress Term Loan Facility

In December 2018, Duke Energy Progress entered into a two-year term loan facility with commitments totaling \$700 million. Borrowings under the facility will be used to pay storm-related costs, pay down commercial paper and to partially finance an upcoming bond maturity. As of December 31, 2018, \$50 million has been drawn under the term loan. The balance is classified as Long-term debt on Duke Energy Progress' Consolidated Balance Sheets. In January and February 2019, the remaining \$650 million was drawn under the term loan.

Piedmont Term Loan Facility

In September 2018, Piedmont executed an amendment to its existing senior unsecured term loan facility. The amendment increased commitments from \$250 million to \$350 million and extended the maturity date to September 2019. Borrowings under the facility will be used for general corporate purposes. As of December 31, 2018, the entire \$350 million has been drawn under the Piedmont Term Loan. This balance is classified as Current maturities of long-term debt on Piedmont's Consolidated Balance Sheets. The terms and conditions of the Piedmont Term Loan are generally consistent with those governing Duke Energy's Master Credit Facility.

Other Debt Matters

In September 2016, Duke Energy filed a Form S-3 with the SEC. Under this Form S-3, which is uncapped, the Duke Energy Registrants, excluding Progress Energy, may issue debt and other securities in the future at amounts, prices and with terms to be determined at the time of future offerings. The registration statement was filed to replace a similar prior filing upon expiration of its three-year term and also allows for the issuance of common stock by Duke Energy.

Duke Energy has an effective Form S-3 with the SEC to sell up to \$3 billion of variable denomination floating-rate demand notes, called PremierNotes. The Form S-3 states that no more than \$1.5 billion of the notes will be outstanding at any particular time. The notes are offered on a continuous basis and bear interest at a floating rate per annum determined by the Duke Energy PremierNotes Committee, or its designee, on a weekly basis. The interest rate payable on notes held by an investor may vary based on the principal amount of the investment. The notes have no stated maturity date, are non-transferable and may be redeemed in whole or in part by Duke Energy or at the investor's option at any time. The balance as of December 31, 2018, and 2017 was \$1,010 million and \$986 million, respectively. The notes are short-term debt obligations of Duke Energy and are reflected as Notes payable and commercial paper on Duke Energy's Consolidated Balance Sheets.

In January 2017, Duke Energy amended its Form S-3 to add Piedmont as a registrant and included in the amendment a prospectus for Piedmont under which it may issue debt securities in the same manner as other Duke Energy Registrants.

Money Pool

The Subsidiary Registrants, excluding Progress Energy (Parent), are eligible to receive support for their short-term borrowing needs through participation with Duke Energy and certain of its subsidiaries in a money pool arrangement. Under this arrangement, those companies with short-term funds may provide short-term loans to affiliates participating in this arrangement. The money pool is structured such that the Subsidiary Registrants, excluding Progress Energy (Parent), separately manage their cash needs and working capital requirements. Accordingly, there is no net settlement of receivables and payables between money pool participants. Duke Energy (Parent), may loan funds to its participating subsidiaries, but may not borrow funds through the money pool. Accordingly, as the money pool activity is between Duke Energy and its wholly owned subsidiaries, all money pool balances are eliminated within Duke Energy's Consolidated Balance Sheets.

FINANCIAL STATEMENTS

DEBT AND CREDIT FACILITIES

Money pool receivable balances are reflected within Notes receivable from affiliated companies on the Subsidiary Registrants' Consolidated Balance Sheets. Money pool payable balances are reflected within either Notes payable to affiliated companies or Long-Term Debt Payable to Affiliated Companies on the Subsidiary Registrants' Consolidated Balance Sheets.

Restrictive Debt Covenants

The Duke Energy Registrants' debt and credit agreements contain various financial and other covenants. Duke Energy's Master Credit Facility contains a covenant requiring the debt-to-total capitalization ratio not to exceed 65 percent for each borrower, excluding Piedmont, and 70 percent for Piedmont. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements. As of December 31, 2018, each of the Duke Energy Registrants was in compliance with all covenants related to their debt agreements. In addition, some credit agreements may allow for acceleration of payments or termination of the agreements due to nonpayment, or acceleration of other significant indebtedness of the borrower or some of its subsidiaries. None of the debt or credit agreements contain material adverse change clauses.

Other Loans

As of December 31, 2018, and 2017, Duke Energy had loans outstanding of \$741 million, including \$37 million at Duke Energy Progress and \$701 million, including \$38 million at Duke Energy Progress, respectively, against the cash surrender value of life insurance policies it owns on the lives of its executives. The amounts outstanding were carried as a reduction of the related cash surrender value that is included in Other within Other Noncurrent Assets on the Consolidated Balance Sheets.

7. GUARANTEES AND INDEMNIFICATIONS

Duke Energy and Progress Energy have various financial and performance guarantees and indemnifications, which are issued in the normal course of business. As discussed below, these contracts include performance guarantees, standby letters of credit, debt guarantees, surety bonds and indemnifications. Duke Energy and Progress Energy enter into these arrangements to facilitate commercial transactions with third parties by enhancing the value of the transaction to the third party. At December 31, 2018, Duke Energy and Progress Energy do not believe conditions are likely for significant performance under these guarantees. To the extent liabilities are incurred as a result of the activities covered by the guarantees, such liabilities are included on the accompanying Consolidated Balance Sheets.

On January 2, 2007, Duke Energy completed the spin-off of its natural gas businesses to shareholders. Guarantees issued by Duke Energy or its affiliates, or assigned to Duke Energy prior to the spin-off, remained with Duke Energy subsequent to the spin-off. Guarantees issued by Spectra Capital or its affiliates prior to the spin-off remained with Spectra Capital subsequent to the spin-off, except for guarantees that were later assigned to Duke Energy. Duke Energy has indemnified Spectra Capital against any losses incurred under certain of the guarantee obligations that remain with Spectra Capital. At December 31, 2018, the maximum potential amount of future payments associated with these guarantees was \$205 million, the majority of which expires by 2028.

Duke Energy has issued performance guarantees to customers and other third parties that guarantee the payment and performance of other parties, including certain non-wholly owned entities, as well as guarantees of debt of certain non-consolidated entities and less than wholly owned consolidated entities. If such entities were to default on payments or performance, Duke Energy would be required under the guarantees to make payments on the obligations of the less than wholly owned entity. The maximum potential amount of future payments required under these guarantees as of December 31, 2018, was \$296 million. Of this amount, \$11 million relates to guarantees issued on behalf of less than wholly owned consolidated entities, with the remainder related to guarantees issued on behalf of third parties and unconsolidated affiliates of Duke Energy. Of the guarantees noted above, \$248 million of the guarantees expire between 2019 and 2030, with the remaining performance guarantees having no contractual expiration.

In October 2017, ACP executed a \$3.4 billion revolving credit facility with a stated maturity date of October 2021. Duke Energy entered into a guarantee agreement to support its share of the ACP revolving credit facility. Duke Energy's maximum exposure to loss under the terms of the guarantee is \$677 million as of December 31, 2018. This amount represents 47 percent of the outstanding borrowings under the credit facility.

Duke Energy guaranteed debt issued by Duke Energy Carolinas of \$650 million as of December 31, 2018, and 2017.

Duke Energy has guaranteed certain issuers of surety bonds, obligating itself to make payment upon the failure of a wholly owned and former non-wholly owned entity to honor its obligations to a third party. Under these arrangements, Duke Energy has payment obligations that are triggered by a draw by the third party or customer due to the failure of the wholly owned or former non-wholly owned entity to perform according to the terms of its underlying contract. At December 31, 2018, Duke Energy had guaranteed \$63 million of outstanding surety bonds, most of which have no set expiration.

Duke Energy uses bank-issued standby letters of credit to secure the performance of wholly owned and non-wholly owned entities to a third party or customer. Under these arrangements, Duke Energy has payment obligations to the issuing bank that are triggered by a draw by the third party or customer due to the failure of the wholly owned or non-wholly owned entity to perform according to the terms of its underlying contract. At December 31, 2018, Duke Energy had issued a total of \$454 million in letters of credit, which expire between 2019 and 2022. The unused amount under these letters of credit was \$60 million.

Duke Energy recognized \$23 million and \$21 million, as of December 31, 2018, and 2017, respectively, primarily in Other within Other Noncurrent Liabilities on the Consolidated Balance Sheets, for the guarantees discussed above. As current estimates change, additional losses related to guarantees and indemnifications to third parties, which could be material, may be recorded by the Duke Energy Registrants in the future.

FINANCIAL STATEMENTS

JOINT OWNERSHIP OF GENERATING AND TRANSMISSION FACILITIES

8. JOINT OWNERSHIP OF GENERATING AND TRANSMISSION FACILITIES

The Duke Energy Registrants maintain ownership interests in certain jointly owned generating and transmission facilities. The Duke Energy Registrants are entitled to a share of the generating capacity and output of each unit equal to their respective ownership interests. The Duke Energy Registrants pay their ownership share of additional construction costs, fuel inventory purchases and operating expenses. The Duke Energy Registrants share of revenues and operating costs of the jointly owned facilities is included within the corresponding line in the Consolidated Statements of Operations. Each participant in the jointly owned facilities must provide its own financing.

The following table presents the Duke Energy Registrants' interest of jointly owned plant or facilities and amounts included on the Consolidated Balance Sheets. All facilities are operated by the Duke Energy Registrants and are included in the Electric Utilities and Infrastructure segment.

(in millions except for ownership interest)	December 31, 2018			
	Ownership Interest	Property, Plant and Equipment	Accumulated Depreciation	Construction Work in Progress
Duke Energy Carolinas				
Catawba (units 1 and 2) ^(a)	19.25%	\$ 989	\$ 483	\$ 17
W.S. Lee CC ^(b)	86.67%	593	12	4
Duke Energy Indiana				
Gibson (unit 5) ^(c)	50.05%	390	173	3
Vermillion ^(d)	62.50%	168	135	—
Transmission and local facilities ^(c)	Various	5,037	1,769	—

- (a) Jointly owned with North Carolina Municipal Power Agency Number 1, NCEMC and PMPA.
(b) Jointly owned with NCEMC.
(c) Jointly owned with WVPA and Indiana Municipal Power Agency.
(d) Jointly owned with WVPA.

Effective June 30, 2018, Duke Energy Ohio, Ohio Power Company, and The Dayton Power and Light Company, completed an asset exchange that reallocated their ownership interest in certain jointly owned transmission facilities. This transaction was approved by FERC and PUCO. The transaction eliminated the joint owner relationships for these assets. Assets were exchanged at net book value and the net increase in Duke Energy Ohio's assets are shown within Capital expenditures in Duke Energy Ohio's Consolidated Statements of Cash Flows.

9. ASSET RETIREMENT OBLIGATIONS

Duke Energy records an ARO when it has a legal obligation to incur retirement costs associated with the retirement of a long-lived asset and the obligation can be reasonably estimated. Certain assets of the Duke Energy Registrants have an indeterminate life, such as transmission and distribution facilities, and thus the fair value of the retirement obligation is not reasonably estimable. A liability for these AROs will be recorded when a fair value is determinable.

The Duke Energy Registrants' regulated operations accrue costs of removal for property that does not have an associated legal retirement obligation based on regulatory orders from state commissions. These costs of removal are recorded as a regulatory liability in accordance with regulatory accounting treatment. The Duke Energy Registrants do not accrue the estimated cost of removal for any nonregulated assets. See Note 4 for the estimated cost of removal for assets without an associated legal retirement obligation, which are included in Regulatory liabilities on the Consolidated Balance Sheets.

The following table presents the AROs recorded on the Consolidated Balance Sheets.

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Decommissioning of nuclear power facilities ^(a)	\$ 5,696	\$ 2,335	\$ 3,209	\$ 2,679	\$ 530	\$ —	\$ —	\$ —
Closure of ash impoundments	4,446	1,568	2,123	2,103	20	52	702	—
Other ^(b)	325	46	79	38	41	41	20	19
Total asset retirement obligation	\$ 10,467	\$ 3,949	\$ 5,411	\$ 4,820	\$ 591	\$ 93	\$ 722	\$ 19
Less: current portion	919	290	514	509	5	6	109	—
Total noncurrent asset retirement obligation	\$ 9,548	\$ 3,659	\$ 4,897	\$ 4,311	\$ 586	\$ 87	\$ 613	\$ 19

- (a) Duke Energy amount includes purchase accounting adjustments related to the merger with Progress Energy.
(b) Primarily includes obligations related to asbestos removal. Duke Energy Ohio and Piedmont also include AROs related to the retirement of natural gas mains and services. Duke Energy includes AROs related to the removal of renewable energy generation assets.

FINANCIAL STATEMENTS

ASSET RETIREMENT OBLIGATIONS

Nuclear Decommissioning Liability

AROs related to nuclear decommissioning are based on site-specific cost studies. The NCUC, PSCSC and FPSC require updated cost estimates for decommissioning nuclear plants every five years.

The following table summarizes information about the most recent site-specific nuclear decommissioning cost studies. Decommissioning costs are stated in 2018 dollars for Duke Energy Carolinas, 2017 dollars for Duke Energy Florida and 2014 dollars for Duke Energy Progress, and include costs to decommission plant components not subject to radioactive contamination.

(in millions)	Annual Funding Requirement ^(a)	Decommissioning Costs ^(a)	Year of Cost Study
Duke Energy	\$ 24	\$ 8,737	2014 and 2018
Duke Energy Carolinas ^{(b)(c)}	—	4,291	2018
Duke Energy Progress	24	3,550	2014
Duke Energy Florida ^(d)	—	896	2018

- (a) Amounts for Progress Energy equal the sum of Duke Energy Progress and Duke Energy Florida.
(b) Decommissioning cost for Duke Energy Carolinas reflects its ownership interest in jointly owned reactors. Other joint owners are responsible for decommissioning costs related to their interest in the reactors.
(c) Duke Energy Carolinas' site-specific nuclear decommissioning cost study completed in 2018 is expected to be filed with the NCUC and PSCSC by the second quarter 2019. Duke Energy Carolinas will also complete a new funding study, which will be completed and filed with the NCUC and PSCSC in 2019.
(d) Duke Energy Florida's site-specific nuclear decommissioning cost study and a new funding study were completed and filed with the FPSC in 2018.

Nuclear Decommissioning Trust Funds

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida each maintain NDTFs that are intended to pay for the decommissioning costs of their respective nuclear power plants. The NDTF investments are managed and invested in accordance with applicable requirements of various regulatory bodies including the NRC, FERC, NCUC, PSCSC, FPSC and the IRS.

Use of the NDTF investments is restricted to nuclear decommissioning activities including license termination, spent fuel and site restoration. The license termination and spent fuel obligations relate to contaminated decommissioning and are recorded as AROs. The site restoration obligation relates to non-contaminated decommissioning and is recorded to cost of removal within Regulatory liabilities on the Consolidated Balance Sheets.

The following table presents the fair value of NDTF assets legally restricted for purposes of settling AROs associated with nuclear decommissioning. Duke Energy Florida is actively decommissioning Crystal River Unit 3 and was granted an exemption from the NRC, which allows for use of the NDTF for all aspects of nuclear decommissioning. The entire balance of Duke Energy Florida's NDTF may be applied toward license termination, spent fuel and site restoration costs incurred to decommission Crystal River Unit 3 and is excluded from the table below. See Note 16 for additional information related to the fair value of the Duke Energy Registrants' NDTFs.

(in millions)	December 31,	
	2018	2017
Duke Energy	\$ 5,579	\$ 5,864
Duke Energy Carolinas	3,133	3,321
Duke Energy Progress	2,446	2,543

Nuclear Operating Licenses

Operating licenses for nuclear units are potentially subject to extension. The following table includes the current expiration of nuclear operating licenses.

Unit	Year of Expiration
Duke Energy Carolinas	
Catawba Units 1 and 2	2043
McGuire Unit 1	2041
McGuire Unit 2	2043
Oconee Units 1 and 2	2033
Oconee Unit 3	2034
Duke Energy Progress	
Brunswick Unit 1	2036
Brunswick Unit 2	2034
Harris	2046
Robinson	2030

FINANCIAL STATEMENTS

ASSET RETIREMENT OBLIGATIONS

The NRC has acknowledged permanent cessation of operation and permanent removal of fuel from the reactor vessel at Crystal River Unit 3. Therefore, the license no longer authorizes operation of the reactor. In January 2018, Crystal River Unit 3 reached a SAFSTOR status.

Closure of Ash Impoundments

The Duke Energy Registrants are subject to state and federal regulations covering the closure of coal ash impoundments, including the EPA CCR rule and the Coal Ash Act, and other agreements. AROs recorded on the Duke Energy Registrants' Consolidated Balance Sheets include the legal obligation for closure of coal ash basins and the disposal of related ash as a result of these regulations and agreements.

The ARO amount recorded on the Consolidated Balance Sheets is based upon estimated closure costs for impacted ash impoundments. The amount recorded represents the discounted cash flows for estimated closure costs based upon either specific closure plans or the probability weightings of the potential closure methods as evaluated on a site-by-site basis. Actual costs to be incurred will be dependent upon factors that vary from site to site. The most significant factors are the method and time frame of closure at the individual sites. Closure methods considered include removing the water from ash basins, consolidating material as necessary and capping the ash with a synthetic barrier, excavating and relocating the ash to a lined structural fill or lined landfill or recycling the ash for concrete or some other beneficial use. The ultimate method and timetable for closure will be in compliance with standards set by federal and state regulations and other agreements. The ARO amount will be adjusted as additional information is gained through the closure and post-closure process, including acceptance and approval of compliance approaches, which may change management assumptions, and may result in a material change to the balance. See ARO Liability Rollforward section below for information on revisions made to the coal ash liability during 2018 and 2017.

Asset retirement costs associated with the AROs for operating plants and retired plants are included in Net property, plant and equipment and Regulatory assets, respectively, on the Consolidated Balance Sheets. See Note 4 for additional information on Regulatory assets related to AROs.

Cost recovery for future expenditures will be pursued through the normal ratemaking process with federal and state utility commissions, which permit recovery of necessary and prudently incurred costs associated with Duke Energy's regulated operations. See Note 4 for additional information on recovery of coal ash costs.

ARO Liability Rollforward

The following tables present changes in the liability associated with AROs.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Balance at December 31, 2016	\$ 10,611	\$ 3,895	\$ 5,475	\$ 4,697	\$ 778	\$ 77	\$ 866	\$ 14
Accretion expense ^(a)	435	184	228	195	33	3	32	1
Liabilities settled ^(b)	(619)	(282)	(270)	(204)	(65)	(7)	(49)	(8)
Liabilities incurred in the current year ^(c)	51	5	—	—	—	7	29	8
Revisions in estimates of cash flows	(303)	(192)	(19)	(15)	(4)	4	(97)	—
Balance at December 31, 2017	10,175	3,610	5,414	4,673	742	84	781	15
Accretion expense ^(a)	427	179	225	196	29	4	29	1
Liabilities settled ^(b)	(638)	(281)	(272)	(227)	(45)	(5)	(79)	—
Liabilities incurred in the current year ^(c)	39	8	5	—	5	—	25	—
Revisions in estimates of cash flows ^(d)	464	433	39	178	(140)	10	(34)	3
Balance at December 31, 2018	\$ 10,467	\$ 3,949	\$ 5,411	\$ 4,820	\$ 591	\$ 93	\$ 722	\$ 19

- (a) Substantially all accretion expense for the years ended December 31, 2018, and 2017 relates to Duke Energy's regulated operations and has been deferred in accordance with regulatory accounting treatment.
- (b) Amounts primarily relate to ash impoundment closures and nuclear decommissioning of Crystal River Unit 3.
- (c) Amounts primarily relate to AROs recorded as a result of state agency closure requirements at Duke Energy Indiana.
- (d) Amounts primarily relate to increases in groundwater monitoring estimates for closure of ash impoundments and an increase for nuclear decommissioning costs at Duke Energy Carolinas' nuclear sites compared to original estimates, partially offset by a reduction for nuclear decommissioning at Crystal River Unit 3 compared to original estimates and modifications to the timing of expected cash flows for coal ash AROs.

FINANCIAL STATEMENTS

PROPERTY, PLANT AND EQUIPMENT

10. PROPERTY, PLANT AND EQUIPMENT

The following tables summarize the property, plant and equipment for Duke Energy and its subsidiary registrants.

December 31, 2018									
(in millions)	Estimated Useful Life (Years)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Land		\$ 2,072	\$ 472	\$ 868	\$ 445	\$ 423	\$ 136	\$ 116	\$ 448
Plant – Regulated									
Electric generation, distribution and transmission	15-100	100,706	38,468	42,760	26,147	16,613	5,182	14,292	—
Natural gas transmission and distribution	12-80	8,808	—	—	—	—	2,719	—	6,089
Other buildings and improvements	24-90	1,966	681	636	295	341	270	253	126
Plant – Nonregulated									
Electric generation, distribution and transmission	5-30	4,410	—	—	—	—	—	—	—
Other buildings and improvements	25-35	494	—	—	—	—	—	—	—
Nuclear fuel		3,460	1,898	1,562	1,562	—	—	—	—
Equipment	3-55	2,141	467	565	399	166	384	178	141
Construction in process		5,726	1,678	2,515	1,659	856	412	325	382
Other	3-40	4,675	1,077	1,354	952	393	257	279	300
Total property, plant and equipment ^{(a)(d)}		134,458	44,741	50,260	31,459	18,792	9,360	15,443	7,486
Total accumulated depreciation – regulated ^{(b)(c)(d)}		(41,079)	(15,496)	(16,398)	(11,423)	(4,968)	(2,717)	(4,914)	(1,575)
Total accumulated depreciation – nonregulated ^{(c)(d)}		(2,047)	—	—	—	—	—	—	—
Generation facilities to be retired, net		362	—	362	362	—	—	—	—
Total net property, plant and equipment		\$ 91,694	\$ 29,245	\$ 34,224	\$ 20,398	\$ 13,824	\$ 6,643	\$ 10,529	\$ 5,911

- (a) Includes capitalized leases of \$1,237 million, \$135 million, \$257 million, \$137 million, \$120 million, \$73 million and \$35 million at Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio and Duke Energy Indiana, respectively, primarily within Plant – Regulated. The Progress Energy, Duke Energy Progress and Duke Energy Florida amounts are net of \$131 million, \$14 million and \$117 million, respectively, of accumulated amortization of capitalized leases.
- (b) Includes \$1,947 million, \$1,087 million, \$860 million and \$860 million of accumulated amortization of nuclear fuel at Duke Energy, Duke Energy Carolinas, Progress Energy and Duke Energy Progress, respectively.
- (c) Includes accumulated amortization of capitalized leases of \$61 million, \$12 million, \$20 million and \$10 million at Duke Energy, Duke Energy Carolinas, Duke Energy Ohio and Duke Energy Indiana, respectively.
- (d) Includes gross property, plant and equipment cost of consolidated VIEs of \$4,007 million and accumulated depreciation of consolidated VIEs of \$698 million at Duke Energy.

FINANCIAL STATEMENTS

PROPERTY, PLANT AND EQUIPMENT

December 31, 2017									
(in millions)	Estimated Useful Life (Years)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Land		\$ 1,559	\$ 467	\$ 767	\$ 424	\$ 343	\$ 134	\$ 111	\$ 41
Plant – Regulated									
Electric generation, distribution and transmission	8-100	93,687	35,657	39,419	24,502	14,917	4,870	13,741	—
Natural gas transmission and distribution	12-80	8,292	—	—	—	—	2,559	—	5,733
Other buildings and improvements	15-100	1,936	647	652	316	336	243	240	154
Plant – Nonregulated									
Electric generation, distribution and transmission ^(a)	5-30	4,273	—	—	—	—	—	—	—
Other buildings and improvements	25-35	465	—	—	—	—	—	—	—
Nuclear fuel		3,680	2,120	1,560	1,560	—	—	—	—
Equipment	3-55	2,122	402	555	416	139	348	169	266
Construction in process		6,995	2,614	3,059	1,434	1,625	350	416	231
Other	3-40	4,498	1,032	1,311	931	370	228	271	300
Total property, plant and equipment ^{(b)(e)}		127,507	42,939	47,323	29,583	17,730	8,732	14,948	6,725
Total accumulated depreciation – regulated ^{(c)(d)(e)}		(39,742)	(15,063)	(15,857)	(10,903)	(4,947)	(2,691)	(4,662)	(1,479)
Total accumulated depreciation – nonregulated ^{(d)(e)}		(1,795)	—	—	—	—	—	—	—
Generation facilities to be retired, net		421	—	421	421	—	—	—	—
Total net property, plant and equipment		\$ 86,391	\$ 27,876	\$ 31,887	\$ 19,101	\$ 12,783	\$ 6,041	\$ 10,286	\$ 5,246

- (a) Includes a pretax impairment charge of \$58 million on a wholly owned non-contracted wind project. See discussion below.
- (b) Includes capitalized leases of \$1,294 million, \$81 million, \$272 million, \$139 million, \$133 million, \$80 million and \$35 million at Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio and Duke Energy Indiana, respectively, primarily within Plant – Regulated. The Progress Energy, Duke Energy Progress and Duke Energy Florida amounts are net of \$114 million, \$11 million and \$103 million, respectively, of accumulated amortization of capitalized leases.
- (c) Includes \$2,113 million, \$1,283 million, \$831 million and \$831 million of accumulated amortization of nuclear fuel at Duke Energy, Duke Energy Carolinas, Progress Energy and Duke Energy Progress, respectively.
- (d) Includes accumulated amortization of capitalized leases of \$57 million, \$11 million, \$21 million and \$9 million at Duke Energy, Duke Energy Carolinas, Duke Energy Ohio and Duke Energy Indiana, respectively.
- (e) Includes gross property, plant and equipment cost of consolidated VIEs of \$3,941 million and accumulated depreciation of consolidated VIEs of \$598 million at Duke Energy.

During the year ended December 31, 2017, Duke Energy recorded a pretax impairment charge of \$69 million on a wholly owned non-contracted wind project. The impairment was recorded within Impairment charges on Duke Energy's Consolidated Statements of Operations. \$58 million of the impairment related to property, plant and equipment and \$11 million of the impairment related to a net intangible asset; see Note 11 for additional information. The charge represents the excess carrying value over the estimated fair value of the project, which was based on a Level 3 Fair Value measurement that was determined from the income approach using discounted cash flows. The impairment was primarily due to the non-contracted wind project being located in a market that has experienced continued declining market pricing during 2017 and declining long-term forecasted energy and capacity prices, driven by low natural gas prices, additional renewable generation placed in service and lack of significant load growth.

FINANCIAL STATEMENTS

PROPERTY, PLANT AND EQUIPMENT

The following tables present capitalized interest, which includes the debt component of AFUDC.

(in millions)	Years Ended December 31,		
	2018	2017	2016
Duke Energy	\$ 161	\$ 128	\$ 100
Duke Energy Carolinas	35	45	38
Progress Energy	51	45	31
Duke Energy Progress	26	21	17
Duke Energy Florida	25	24	14
Duke Energy Ohio	17	10	8
Duke Energy Indiana	27	9	7

(in millions)	Years Ended December 31,		Two Months Ended December 31,	Year Ended October 31,
	2018	2017	2016	2016
Piedmont	\$ 17	\$ 12	\$ 2	\$ 12

Operating Leases

Duke Energy's Commercial Renewables segment operates various renewable energy projects and sells the generated output to utilities, electric cooperatives, municipalities and commercial and industrial customers through long-term contracts. In certain situations, these long-term contracts and the associated renewable energy projects qualify as operating leases. Rental income from these leases is accounted for as Operating Revenues in the Consolidated Statements of Operations. There are no minimum lease payments as all payments are contingent based on actual electricity generated by the renewable energy projects. Contingent lease payments were \$268 million, \$262 million, and \$216 million for the years ended December 31, 2018, 2017 and 2016. As of December 31, 2018, renewable energy projects owned by Duke Energy and accounted for as operating leases had a cost basis of \$3,358 million and accumulated depreciation of \$602 million. These assets are principally classified as nonregulated electric generation and transmission assets.

11. GOODWILL AND INTANGIBLE ASSETS

Goodwill

Duke Energy

The following table presents goodwill by reportable segment for Duke Energy included on Duke Energy's Consolidated Balance Sheets at December 31, 2018, and 2017.

(in millions)	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total
Goodwill Balance at December 31, 2017	\$ 17,379	\$ 1,924	\$ 122	\$ 19,425
Accumulated impairment charges ^(a)	—	—	(29)	(29)
Goodwill balance at December 31, 2017, adjusted for accumulated impairment charges	\$ 17,379	\$ 1,924	\$ 93	\$ 19,396
Goodwill Balance at December 31, 2018	\$ 17,379	\$ 1,924	\$ 122	\$ 19,425
Accumulated impairment charges ^(a)	\$ —	\$ —	\$ (122)	\$ (122)
Goodwill balance at December 31, 2018, adjusted for accumulated impairment charges	\$ 17,379	\$ 1,924	\$ —	\$ 19,303

- (a) Duke Energy evaluated the recoverability of goodwill during 2017 and recorded impairment charges of \$29 million related to the Energy Management Solutions reporting unit within the Commercial Renewables segment. The fair value of the reporting unit was determined based on the market approach. See "Goodwill Impairment Testing" below for the results of the 2018 goodwill impairment test.

Duke Energy Ohio

Duke Energy Ohio's Goodwill balance of \$920 million, allocated \$596 million to Electric Utilities and Infrastructure and \$324 million to Gas Utilities and Infrastructure, is presented net of accumulated impairment charges of \$216 million on the Consolidated Balance Sheets at December 31, 2018, and 2017.

Progress Energy

Progress Energy's Goodwill is included in the Electric Utilities and Infrastructure segment and there are no accumulated impairment charges.

FINANCIAL STATEMENTS

GOODWILL AND INTANGIBLE ASSETS

Piedmont

Piedmont's Goodwill is included in the Gas Utilities and Infrastructure segment and there are no accumulated impairment charges.

Goodwill Impairment Testing

Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont are required to perform an annual goodwill impairment test as of the same date each year and, accordingly, perform their annual impairment testing of goodwill as of August 31. Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont update their test between annual tests if events or circumstances occur that would more likely than not reduce the fair value of a reporting unit below its carrying value.

In the third quarter of 2018, based on the results of the annual quantitative goodwill impairment test, management determined that the fair value of the Commercial Renewables reporting unit was below its respective carrying value, including goodwill. Determination of the Commercial Renewables reporting unit fair value was based on an income approach, which estimates the fair value based on discounted future cash flows. The fair value of the Commercial Renewables reporting unit is impacted by several factors, including forecasted tax credit utilization, the cost of capital, current and forecasted solar and wind volumes, and legislative developments. Certain assumptions used in determining the fair value of the reporting unit in the 2018 impairment test changed from those used in the 2017 annual impairment test including the cost of capital as a result of rising interest rates and the timing of tax credit utilization due to tax reform and IRS clarification on bonus depreciation in August 2018. Based on the quantitative impairment test, the estimated fair value of the Commercial Renewables reporting unit was below its carrying value by an immaterial amount but still more than the goodwill balance assigned to the reporting unit. As such, the entire remaining goodwill balance of approximately \$93 million was impaired during the third quarter of 2018.

The fair value of all other reporting units for Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont exceeded their respective carrying values at the date of the annual impairment analysis.

Intangible Assets

The following tables show the carrying amount and accumulated amortization of intangible assets included in Other within Other Noncurrent Assets on the Consolidated Balance Sheets of the Duke Energy Registrants at December 31, 2018, and 2017.

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Emission allowances	\$ 18	\$ —	\$ 5	\$ 2	\$ 3	\$ —	\$ 12	\$ —
Renewable energy certificates	168	46	120	120	—	2	—	—
Natural gas, coal and power contracts	24	—	—	—	—	—	24	—
Renewable operating and development projects	84	—	—	—	—	—	—	—
Other	6	—	—	—	—	—	—	3
Total gross carrying amounts	300	46	125	122	3	2	36	3
Accumulated amortization – natural gas, coal and power contracts	(20)	—	—	—	—	—	(20)	—
Accumulated amortization – renewable operating and development projects	(29)	—	—	—	—	—	—	—
Accumulated amortization – other	(5)	—	—	—	—	—	—	(3)
Total accumulated amortization	(54)	—	—	—	—	—	(20)	(3)
Total intangible assets, net	\$ 246	\$ 46	\$ 125	\$ 122	\$ 3	\$ 2	\$ 16	\$ —

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FINANCIAL STATEMENTS

GOODWILL AND INTANGIBLE ASSETS

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Emission allowances	\$ 19	\$ 1	\$ 5	\$ 2	\$ 3	\$ —	\$ 13	\$ —
Renewable energy certificates	148	38	107	107	—	3	—	—
Natural gas, coal and power contracts	24	—	—	—	—	—	24	—
Renewable operating and development projects	79	—	—	—	—	—	—	—
Other	6	—	—	—	—	—	—	3
Total gross carrying amounts	276	39	112	109	3	3	37	3
Accumulated amortization – natural gas, coal and power contracts	(19)	—	—	—	—	—	(19)	—
Accumulated amortization – renewable operating and development projects	(22)	—	—	—	—	—	—	—
Accumulated amortization – other	(5)	—	—	—	—	—	—	(3)
Total accumulated amortization	(46)	—	—	—	—	—	(19)	(3)
Total intangible assets, net	\$ 230	\$ 39	\$ 112	\$ 109	\$ 3	\$ 3	\$ 18	\$ —

During the year ended December 31, 2017, Duke Energy recorded a pretax impairment charge of \$69 million on a wholly owned non-contracted wind project. The impairment was recorded within Impairment charges on Duke Energy's Consolidated Statements of Operations. \$58 million of the impairment related to property, plant and equipment and \$11 million of the impairment related to a net intangible asset that was recorded in 2007 when the project was acquired. Prior to the impairment, the gross amount of the intangible asset was \$18 million and the accumulated amortization was \$7 million. The intangible asset was fully impaired. See Note 10 for additional information.

Amortization Expense

Amortization expense amounts for natural gas, coal and power contracts, renewable operating projects and other intangible assets are immaterial for the years ended December 31, 2018, 2017 and 2016, and are expected to be immaterial for the next five years as of December 31, 2018.

12. INVESTMENTS IN UNCONSOLIDATED AFFILIATES

EQUITY METHOD INVESTMENTS

Investments in affiliates that are not controlled by Duke Energy, but over which it has significant influence, are accounted for using the equity method.

The following table presents Duke Energy's investments in unconsolidated affiliates accounted for under the equity method, as well as the respective equity in earnings, by segment.

(in millions)	Years Ended December 31,					
	2018		2017		2016	
	Investments	Equity in earnings	Investments	Equity in earnings	Investments	Equity in earnings
Electric Utilities and Infrastructure	\$ 97	\$ 6	\$ 89	\$ 5	\$ 93	\$ 5
Gas Utilities and Infrastructure	1,003	27	763	62	566	19
Commercial Renewables	201	(1)	190	(5)	185	(82)
Other	108	51	133	57	81	43
Total	\$ 1,409	\$ 83	\$ 1,175	\$ 119	\$ 925	\$ (15)

During the years ended December 31, 2018, 2017 and 2016, Duke Energy received distributions from equity investments of \$108 million, \$13 million and \$31 million, respectively, which are included in Other assets within Cash Flows from Operating Activities on the Consolidated Statements of Cash Flows. During the years ended December 31, 2018, and 2017, Duke Energy received distributions from equity investments of \$137 million and \$281 million, respectively, which are included in Return of investment capital within Cash Flows from Investing Activities on the Consolidated Statements of Cash Flows.

During the years ended December 31, 2018, and 2017, and the two months ended December 31, 2016, and the year ended October 31, 2016, Piedmont received distributions from equity investments of \$1 million, \$4 million, \$1 million and \$26 million, respectively, which are included in Other assets within Cash Flows from Operating Activities and \$3 million, \$2 million, \$1 million and \$18 million, respectively, which are included within Cash Flows from Investing Activities on the Consolidated Statements of Cash Flows.

Significant investments in affiliates accounted for under the equity method are discussed below.

FINANCIAL STATEMENTS

INVESTMENTS IN UNCONSOLIDATED AFFILIATES

Electric Utilities and Infrastructure

Duke Energy owns a 50 percent interest in DATC and in Pioneer, which build, own and operate electric transmission facilities in North America.

Gas Utilities and Infrastructure

The table below outlines Duke Energy's ownership interests in natural gas pipeline companies and natural gas storage facilities.

Entity Name	Ownership Interest	Investment Amount (in millions)	
		December 31, 2018	December 31, 2017
Pipeline Investments			
Atlantic Coast Pipeline, LLC ^(a)	47%	\$ 797	\$ 397
Sabal Trail Transmission, LLC	7.5%	112 ^(d)	219
Constitution Pipeline, LLC ^(a)	24%	25	81
Cardinal Pipeline Company, LLC ^(b)	21.49%	10	11
Storage Facilities			
Pine Needle LNG Company, LLC ^(b)	45%	13	13
Hardy Storage Company, LLC ^(b)	50%	46	42
Total Investments ^(c)		\$ 1,003	\$ 763

- (a) During the year ended December 31, 2017, Piedmont transferred its share of ownership interest in ACP and Constitution to a wholly owned subsidiary of Duke Energy at book value.
- (b) Piedmont owns the Cardinal, Pine Needle and Hardy Storage investments.
- (c) Duke Energy includes purchase accounting adjustments related to Piedmont.
- (d) Sabal Trail returned capital of \$112 million during the year ended December 31, 2018.

In October 2017, Duke Energy entered into a guarantee agreement to support its share of the ACP revolving credit facility. See Note 7 for additional information. As a result of the financing, ACP returned capital of \$265 million to Duke Energy.

Piedmont sold its 15 percent membership interest in SouthStar on October 3, 2016, for \$160 million resulting in an after tax gain of \$81 million during the year ended October 31, 2016. Piedmont's Equity in Earnings in SouthStar was \$19 million for the year ended October 31, 2016.

During the fourth quarter of 2018, ACP received several adverse court rulings as described in Note 4. As a result, Duke Energy evaluated this investment for impairment and determined that fair value approximated carrying value and therefore no impairment was necessary.

For regulatory matters and other information on the ACP, Sabal Trail and Constitution investments, see Notes 4 and 17.

Commercial Renewables

Duke Energy has a 50 percent interest in DS Cornerstone, LLC, which owns wind farm projects in the U.S.

Impairment of Equity Method Investments

During the year ended December 31, 2018, Duke Energy recorded an OTTI of the Constitution investment of \$55 million within Equity in earnings of unconsolidated affiliates on Duke Energy's Consolidated Statements of Operations. The charge represents the excess carrying value over the estimated fair value of the project, which was based on a Level 3 Fair Value measurement that was determined from the income approach using discounted cash flows. The impairment was primarily due to the recent actions taken by the courts and regulators to uphold the NYSDEC's denial of the certification and uncertainty associated with the remaining legal and regulatory challenges. For additional information on the Constitution investment, see Note 4.

During the year ended December 31, 2016, Duke Energy recorded an OTTI of certain wind project investments. The \$71 million pretax impairment was recorded within Equity in earnings (losses) of unconsolidated affiliates on Duke Energy's Consolidated Statements of Operations. The other-than-temporary decline in value of these investments was primarily attributable to a sustained decline in market pricing where the wind investments are located, projected net losses for the projects and a reduction in the projected cash distribution to the class of investment owned by Duke Energy.

Other

Duke Energy owns a 17.5 percent indirect interest in NMC, which owns and operates a methanol and MTBE business in Jubail, Saudi Arabia. Duke Energy's economic ownership interest decreased from 25 to 17.5 percent with the successful startup of NMC's polyacetal production facility in 2017. Duke Energy retains 25 percent of the board representation and voting rights of NMC.

FINANCIAL STATEMENTS

RELATED PARTY TRANSACTIONS

13. RELATED PARTY TRANSACTIONS

The Subsidiary Registrants engage in related party transactions in accordance with the applicable state and federal commission regulations. Refer to the Consolidated Balance Sheets of the Subsidiary Registrants for balances due to or due from related parties. Material amounts related to transactions with related parties included in the Consolidated Statements of Operations and Comprehensive Income are presented in the following table.

(in millions)	Years Ended December 31,		
	2018	2017	2016
Duke Energy Carolinas			
Corporate governance and shared service expenses ^(a)	\$ 985	\$ 858	\$ 831
Indemnification coverages ^(b)	22	23	22
JDA revenue ^(c)	84	49	38
JDA expense ^(c)	207	145	156
Intercompany natural gas purchases ^(d)	15	9	2
Progress Energy			
Corporate governance and shared service expenses ^(a)	\$ 906	\$ 736	\$ 710
Indemnification coverages ^(b)	34	38	35
JDA revenue ^(c)	207	145	156
JDA expense ^(c)	84	49	38
Intercompany natural gas purchases ^(d)	78	77	19
Duke Energy Progress			
Corporate governance and shared service expenses ^(a)	\$ 577	\$ 438	\$ 397
Indemnification coverages ^(b)	13	15	14
JDA revenue ^(c)	207	145	156
JDA expense ^(c)	84	49	38
Intercompany natural gas purchases ^(d)	78	77	19
Duke Energy Florida			
Corporate governance and shared service expenses ^(a)	\$ 329	\$ 298	\$ 313
Indemnification coverages ^(b)	21	23	21
Duke Energy Ohio			
Corporate governance and shared service expenses ^(a)	\$ 374	\$ 363	\$ 356
Indemnification coverages ^(b)	5	5	5
Duke Energy Indiana			
Corporate governance and shared service expenses ^(a)	\$ 405	\$ 370	\$ 366
Indemnification coverages ^(b)	7	8	8
Piedmont			
Corporate governance and shared service expenses ^(a)	\$ 170	\$ 50	
Indemnification coverages ^(b)	2	2	
Intercompany natural gas sales ^(d)	93	86	
Natural gas storage and transportation costs ^(e)	25	25	

- (a) The Subsidiary Registrants are charged their proportionate share of corporate governance and other shared services costs, primarily related to human resources, employee benefits, information technology, legal and accounting fees, as well as other third-party costs. These amounts are primarily recorded in Operation, maintenance and other on the Consolidated Statements of Operations and Comprehensive Income.
- (b) The Subsidiary Registrants incur expenses related to certain indemnification coverages through Bison, Duke Energy's wholly owned captive insurance subsidiary. These expenses are recorded in Operation, maintenance and other on the Consolidated Statements of Operations and Comprehensive Income.
- (c) Duke Energy Carolinas and Duke Energy Progress participate in a JDA, which allows the collective dispatch of power plants between the service territories to reduce customer rates. Revenues from the sale of power and expenses from the purchase of power pursuant to the JDA are recorded in Operating Revenues and Fuel used in electric generation and purchased power, respectively, on the Consolidated Statements of Operations and Comprehensive Income.
- (d) Piedmont provides long-term natural gas delivery service to certain Duke Energy Carolinas and Duke Energy Progress natural gas-fired generation facilities. Piedmont records the sales in Operating Revenues, and Duke Energy Carolinas and Duke Energy Progress record the related purchases as a component of Fuel used in electric generation and purchased power on their respective Consolidated Statements of Operations and Comprehensive Income. These intercompany revenues and expenses are eliminated in consolidation. For the two months ended December 31, 2016, and for sales made subsequent to the acquisition for the year ended October 31, 2016, Piedmont recorded \$14 million and \$7 million, respectively, of natural gas sales with Duke Energy. For sales made prior to the acquisition for the year ended October 31, 2016, Piedmont recorded \$74 million of natural gas sales with Duke Energy.

FINANCIAL STATEMENTS

RELATED PARTY TRANSACTIONS

- (e) Piedmont has related party transactions as a customer of its equity method investments in Pine Needle, Hardy Storage, and Cardinal natural gas storage and transportation facilities. These expenses are included in Cost of natural gas on Piedmont's Consolidated Statements of Operations and Comprehensive Income. For the two months ended December 31, 2016, and for the year ended October 31, 2016, Piedmont recorded \$6 million and \$29 million, respectively, of natural gas storage and transportation costs.

In addition to the amounts presented above, the Subsidiary Registrants have other affiliate transactions, including rental of office space, participation in a money pool arrangement, other operational transactions and their proportionate share of certain charged expenses. See Note 6 for more information regarding money pool. These transactions of the Subsidiary Registrants are incurred in the ordinary course of business and are eliminated in consolidation.

As discussed in Note 17, certain trade receivables have been sold by Duke Energy Ohio and Duke Energy Indiana to CRC, an affiliate formed by a subsidiary of Duke Energy. The proceeds obtained from the sales of receivables are largely cash but do include a subordinated note from CRC for a portion of the purchase price.

Intercompany Income Taxes

Duke Energy and the Subsidiary Registrants file a consolidated federal income tax return and other state and jurisdictional returns. The Subsidiary Registrants have a tax sharing agreement with Duke Energy for the allocation of consolidated tax liabilities and benefits. Income taxes recorded represent amounts the Subsidiary Registrants would incur as separate C-Corporations. The following table includes the balance of intercompany income tax receivables and payables for the Subsidiary Registrants.

(in millions)	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
December 31, 2018							
Intercompany income tax receivable	\$ 52	\$ 47	\$ 29	\$ —	\$ —	\$ 8	\$ —
Intercompany income tax payable	—	—	—	16	3	—	45
December 31, 2017							
Intercompany income tax receivable	\$ —	\$ 168	\$ —	\$ 44	\$ 22	\$ —	\$ 7
Intercompany income tax payable	44	—	21	—	—	35	—

14. DERIVATIVES AND HEDGING

The Duke Energy Registrants use commodity and interest rate contracts to manage commodity price risk and interest rate risk. The primary use of commodity derivatives is to hedge the generation portfolio against changes in the prices of electricity and natural gas. Piedmont enters into natural gas supply contracts to provide diversification, reliability and natural gas cost benefits to its customers. Interest rate swaps are used to manage interest rate risk associated with borrowings.

All derivative instruments not identified as NPNS are recorded at fair value as assets or liabilities on the Consolidated Balance Sheets. Cash collateral related to derivative instruments executed under master netting arrangements is offset against the collateralized derivatives on the Consolidated Balance Sheets. The cash impacts of settled derivatives are recorded as operating activities on the Consolidated Statements of Cash Flows.

INTEREST RATE RISK

The Duke Energy Registrants are exposed to changes in interest rates as a result of their issuance or anticipated issuance of variable-rate and fixed-rate debt and commercial paper. Interest rate risk is managed by limiting variable-rate exposures to a percentage of total debt and by monitoring changes in interest rates. To manage risk associated with changes in interest rates, the Duke Energy Registrants may enter into interest rate swaps, U.S. Treasury lock agreements and other financial contracts. In anticipation of certain fixed-rate debt issuances, a series of forward-starting interest rate swaps or Treasury locks may be executed to lock in components of current market interest rates. These instruments are later terminated prior to or upon the issuance of the corresponding debt.

Cash Flow Hedges

For a derivative designated as hedging the exposure to variable cash flows of a future transaction, referred to as a cash flow hedge, the effective portion of the derivative's gain or loss is initially reported as a component of other comprehensive income and subsequently reclassified into earnings once the future transaction impacts earnings. Amounts for interest rate contracts are reclassified to earnings as interest expense over the term of the related debt. Gains and losses reclassified out of AOCI for the years ended December 31, 2018, 2017 and 2016 were not material. Duke Energy's interest rate derivatives designated as hedges include interest rate swaps used to hedge existing debt within the Commercial Renewables business.

Undesignated Contracts

Undesignated contracts primarily include contracts not designated as a hedge because they are accounted for under regulatory accounting or contracts that do not qualify for hedge accounting.

FINANCIAL STATEMENTS

DERIVATIVES AND HEDGING

Duke Energy's interest rate swaps for its regulated operations employ regulatory accounting. With regulatory accounting, the mark-to-market gains or losses on the swaps are deferred as regulatory liabilities or regulatory assets, respectively. Regulatory assets and liabilities are amortized consistent with the treatment of the related costs in the ratemaking process. The accrual of interest on the swaps is recorded as Interest Expense on the Duke Energy Registrant's Consolidated Statements of Operations and Comprehensive Income.

In August 2016, Duke Energy unwound \$1.4 billion of forward-starting interest rate swaps associated with the Piedmont acquisition financing. The swaps were considered undesignated as they did not qualify for hedge accounting. Losses on the swaps of \$190 million are included within Interest Expense on the Consolidated Statements of Operations for the year ended December 31, 2016. See Note 2 for additional information related to the Piedmont acquisition.

The following tables show notional amounts of outstanding derivatives related to interest rate risk.

December 31, 2018							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	
Cash flow hedges	\$ 923	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Undesignated contracts	1,721	300	1,200	650	550		27
Total notional amount ^(a)	\$ 2,644	\$ 300	\$ 1,200	\$ 650	\$ 550		27

December 31, 2017							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	
Cash flow hedges ^(a)	\$ 660	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Undesignated contracts	927	400	500	250	250		27
Total notional amount	\$ 1,587	\$ 400	\$ 500	\$ 250	\$ 250		27

(a) Duke Energy includes amounts related to consolidated VIEs of \$422 million in cash flow hedges and \$194 million in undesignated contracts as of December 31, 2018, and \$660 million in cash flow hedges as of December 31, 2017.

COMMODITY PRICE RISK

The Duke Energy Registrants are exposed to the impact of changes in the prices of electricity purchased and sold in bulk power markets and coal and natural gas purchases, including Piedmont's natural gas supply contracts. Exposure to commodity price risk is influenced by a number of factors including the term of contracts, the liquidity of markets and delivery locations. For the Subsidiary Registrants, bulk power electricity and coal and natural gas purchases flow through fuel adjustment clauses, formula based contracts or other cost sharing mechanisms. Differences between the costs included in rates and the incurred costs, including undesignated derivative contracts, are largely deferred as regulatory assets or regulatory liabilities. Piedmont policies allow for the use of financial instruments to hedge commodity price risks. The strategy and objective of these hedging programs are to use the financial instruments to reduce gas cost volatility for customers.

Volumes

The tables below include volumes of outstanding commodity derivatives. Amounts disclosed represent the absolute value of notional volumes of commodity contracts excluding NPNS. The Duke Energy Registrants have netted contractual amounts where offsetting purchase and sale contracts exist with identical delivery locations and times of delivery. Where all commodity positions are perfectly offset, no quantities are shown.

December 31, 2018								
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Electricity (gigawatt-hours)	15,286	—	—	—	—	1,786	13,500	—
Natural gas (millions of dekatherms)	739	121	169	166	3	—	1	448

December 31, 2017								
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Electricity (gigawatt-hours)	34	—	—	—	—	—	34	—
Natural gas (millions of dekatherms)	770	105	183	133	50	—	2	480

FINANCIAL STATEMENTS

DERIVATIVES AND HEDGING

LOCATION AND FAIR VALUE OF DERIVATIVE ASSETS AND LIABILITIES RECOGNIZED IN THE CONSOLIDATED BALANCE SHEETS

The following tables show the fair value and balance sheet location of derivative instruments. Although derivatives subject to master netting arrangements are netted on the Consolidated Balance Sheets, the fair values presented below are shown gross and cash collateral on the derivatives has not been netted against the fair values shown.

Derivative Assets			December 31, 2018													
		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana		Piedmont						
(in millions)		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana		Piedmont						
Commodity Contracts																
Not Designated as Hedging Instruments																
Current	\$	35	\$	2	\$	2	\$	—	\$	6	\$	23	\$	3		
Noncurrent		4		1		2		2		—		—		—		
Total Derivative Assets – Commodity Contracts	\$	39	\$	3	\$	4	\$	4	\$	—	\$	6	\$	23	\$	3
Interest Rate Contracts																
Designated as Hedging Instruments																
Current	\$	1	\$	—	\$	—	\$	—	\$	—	\$	—	\$	—	\$	—
Noncurrent		3		—		—		—		—		—		—		—
Not Designated as Hedging Instruments																
Current		2		—		—		—		—		—		—		—
Noncurrent		12		—		—		—		—		—		—		—
Total Derivative Assets – Interest Rate Contracts	\$	18	\$	—	\$	—	\$	—	\$	—	\$	—	\$	—	\$	—
Total Derivative Assets	\$	57	\$	3	\$	4	\$	4	\$	—	\$	6	\$	23	\$	3

Derivative Liabilities			December 31, 2018													
		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana		Piedmont						
(in millions)		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana		Piedmont						
Commodity Contracts																
Not Designated as Hedging Instruments																
Current	\$	33	\$	14	\$	10	\$	5	\$	6	\$	—	\$	—	\$	8
Noncurrent		158		10		15		6		—		—		—		133
Total Derivative Liabilities – Commodity Contracts	\$	191	\$	24	\$	25	\$	11	\$	6	\$	—	\$	—	\$	141
Interest Rate Contracts																
Designated as Hedging Instruments																
Current	\$	12	\$	—	\$	—	\$	—	\$	—	\$	—	\$	—	\$	—
Noncurrent		6		—		—		—		—		—		—		—
Not Designated as Hedging Instruments																
Current		23		9		13		11		2		1		—		—
Noncurrent		10		—		6		5		1		4		—		—
Total Derivative Liabilities – Interest Rate Contracts	\$	51	\$	9	\$	19	\$	16	\$	3	\$	5	\$	—	\$	—
Total Derivative Liabilities	\$	242	\$	33	\$	44	\$	27	\$	9	\$	5	\$	—	\$	141

FINANCIAL STATEMENTS

DERIVATIVES AND HEDGING

Derivative Assets				December 31, 2017							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont			
Commodity Contracts											
Not Designated as Hedging Instruments											
Current	\$ 34	\$ 2	\$ 2	\$ 1	\$ 1	\$ 1	\$ 27	\$ 2			
Noncurrent	1	—	1	1	—	—	—	—			
Total Derivative Assets – Commodity Contracts	\$ 35	\$ 2	\$ 3	\$ 2	\$ 1	\$ 1	\$ 27	\$ 2			
Interest Rate Contracts											
Designated as Hedging Instruments											
Current	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —			
Noncurrent	15	—	—	—	—	—	—	—			
Total Derivative Assets – Interest Rate Contracts	\$ 16	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —			
Total Derivative Assets	\$ 51	\$ 2	\$ 3	\$ 2	\$ 1	\$ 1	\$ 27	\$ 2			

Derivative Liabilities				December 31, 2017							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont			
Commodity Contracts											
Not Designated as Hedging Instruments											
Current	\$ 36	\$ 6	\$ 18	\$ 8	\$ 10	\$ —	\$ —	\$ 11			
Noncurrent	146	4	10	4	—	—	—	131			
Total Derivative Liabilities – Commodity Contracts	\$ 182	\$ 10	\$ 28	\$ 12	\$ 10	\$ —	\$ —	\$ 142			
Interest Rate Contracts											
Designated as Hedging Instruments											
Current	\$ 29	\$ 25	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —			
Noncurrent	6	—	—	—	—	—	—	—			
Not Designated as Hedging Instruments											
Current	1	—	1	—	—	1	—	—			
Noncurrent	12	—	7	6	2	4	—	—			
Total Derivative Liabilities – Interest Rate Contracts	\$ 48	\$ 25	\$ 8	\$ 6	\$ 2	\$ 5	\$ —	\$ —			
Total Derivative Liabilities	\$ 230	\$ 35	\$ 36	\$ 18	\$ 12	\$ 5	\$ —	\$ 142			

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Step 13 2021

FINANCIAL STATEMENTS

DERIVATIVES AND HEDGING

OFFSETTING ASSETS AND LIABILITIES

The following tables present the line items on the Consolidated Balance Sheets where derivatives are reported. Substantially all of Duke Energy's outstanding derivative contracts are subject to enforceable master netting arrangements. The gross amounts offset in the tables below show the effect of these netting arrangements on financial position and include collateral posted to offset the net position. The amounts shown are calculated by counterparty. Accounts receivable or accounts payable may also be available to offset exposures in the event of bankruptcy. These amounts are not included in the tables below.

Derivative Assets			December 31, 2018											
		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont					
(in millions)		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont					
Current														
Gross amounts recognized	\$	38	\$	2	\$	2	\$	—	\$	6	\$	23	\$	3
Gross amounts offset		(3)		(2)		(2)		(2)		—		—		—
Net amounts presented in Current Assets: Other	\$	35	\$	—	\$	—	\$	—	\$	6	\$	23	\$	3
Noncurrent														
Gross amounts recognized	\$	19	\$	1	\$	2	\$	2	\$	—	\$	—	\$	—
Gross amounts offset		(3)		(1)		(2)		(2)		—		—		—
Net amounts presented in Other Noncurrent Assets: Other	\$	16	\$	—	\$	—	\$	—	\$	—	\$	—	\$	—

Derivative Liabilities			December 31, 2018													
		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont							
(in millions)		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont							
Current																
Gross amounts recognized	\$	68	\$	23	\$	23	\$	16	\$	8	\$	1	\$	—	\$	8
Gross amounts offset		(4)		(2)		(2)		(2)		—		—		—		—
Net amounts presented in Current Liabilities: Other	\$	64	\$	21	\$	21	\$	14	\$	8	\$	1	\$	—	\$	8
Noncurrent																
Gross amounts recognized	\$	174	\$	10	\$	21	\$	11	\$	1	\$	4	\$	—	\$	133
Gross amounts offset		(3)		(1)		(2)		(2)		—		—		—		—
Net amounts presented in Other Noncurrent Liabilities: Other	\$	171	\$	9	\$	19	\$	9	\$	1	\$	4	\$	—	\$	133

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Step 13 2021

FINANCIAL STATEMENTS

DERIVATIVES AND HEDGING

Derivative Assets			December 31, 2017							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont		
Current										
Gross amounts recognized	\$ 35	\$ 2	\$ 2	\$ 1	\$ 1	\$ 1	\$ 27	\$ 2		
Gross amounts offset	—	—	—	—	—	—	—	—		
Net amounts presented in Current Assets: Other	\$ 35	\$ 2	\$ 2	\$ 1	\$ 1	\$ 1	\$ 27	\$ 2		
Noncurrent										
Gross amounts recognized	\$ 16	\$ —	\$ 1	\$ 1	\$ —	\$ —	\$ —	\$ —		
Gross amounts offset	—	—	—	—	—	—	—	—		
Net amounts presented in Other Noncurrent Assets: Other	\$ 16	\$ —	\$ 1	\$ 1	\$ —	\$ —	\$ —	\$ —		

Derivative Liabilities			December 31, 2017							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont		
Current										
Gross amounts recognized	\$ 66	\$ 31	\$ 19	\$ 8	\$ 10	\$ 1	\$ —	\$ 11		
Gross amounts offset	(3)	(2)	(2)	(2)	—	—	—	—		
Net amounts presented in Current Liabilities: Other	\$ 63	\$ 29	\$ 17	\$ 6	\$ 10	\$ 1	\$ —	\$ 11		
Noncurrent										
Gross amounts recognized	\$ 164	\$ 4	\$ 17	\$ 10	\$ 2	\$ 4	\$ —	\$ 131		
Gross amounts offset	(1)	—	(1)	(1)	—	—	—	—		
Net amounts presented in Other Noncurrent Liabilities: Other	\$ 163	\$ 4	\$ 16	\$ 9	\$ 2	\$ 4	\$ —	\$ 131		

OBJECTIVE CREDIT CONTINGENT FEATURES

Certain derivative contracts contain objective credit contingent features. These features include the requirement to post cash collateral or letters of credit if specific events occur, such as a credit rating downgrade below investment grade. The following tables show information with respect to derivative contracts that are in a net liability position and contain objective credit-risk-related payment provisions.

		December 31, 2018				
(in millions)		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Aggregate fair value of derivatives in a net liability position	\$	44	\$ 19	\$ 25	\$ 25	\$ —
Fair value of collateral already posted		—	—	—	—	—
Additional cash collateral or letters of credit in the event credit-risk-related contingent features were triggered		44	19	25	25	—

		December 31, 2017				
(in millions)		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Aggregate fair value of derivatives in a net liability position	\$	59	\$ 35	\$ 25	\$ 15	\$ 10
Fair value of collateral already posted		—	—	—	—	—
Additional cash collateral or letters of credit in the event credit-risk-related contingent features were triggered		59	35	25	15	10

The Duke Energy Registrants have elected to offset cash collateral and fair values of derivatives. For amounts to be netted, the derivative and cash collateral must be executed with the same counterparty under the same master netting arrangement.

FINANCIAL STATEMENTS

INVESTMENTS IN DEBT AND EQUITY SECURITIES

15. INVESTMENTS IN DEBT AND EQUITY SECURITIES

Duke Energy's investments in debt and equity securities are primarily comprised of investments held in (i) the NDTF at Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, (ii) the grantor trusts at Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana related to OPEB plans and (iii) Bison. The Duke Energy Registrants classify investments in debt securities as AFS and investments in equity securities as FV-NI.

For investments in debt securities classified as AFS, the unrealized gains and losses are included in other comprehensive income until realized, at which time, they are reported through net income. For investments in equity securities classified as FV-NI, both realized and unrealized gains and losses are reported through net income. Substantially all of Duke Energy's investments in debt and equity securities qualify for regulatory accounting, and accordingly, all associated realized and unrealized gains and losses on these investments are deferred as a regulatory asset or liability.

Duke Energy classifies the majority of investments in debt and equity securities as long term, unless otherwise noted.

Investment Trusts

The investments within the NDTF and the Investment Trusts are managed by independent investment managers with discretion to buy, sell and invest pursuant to the objectives set forth by the trust agreements. The Duke Energy Registrants have limited oversight of the day-to-day management of these investments. As a result, the ability to hold investments in unrealized loss positions is outside the control of the Duke Energy Registrants. Accordingly, all unrealized losses associated with debt securities within the Investment Trusts are considered OTTI and are recognized immediately and deferred to regulatory accounts where appropriate.

Other AFS Securities

Unrealized gains and losses on all other AFS securities are included in other comprehensive income until realized, unless it is determined the carrying value of an investment is other-than-temporarily impaired. The Duke Energy Registrants analyze all investment holdings each reporting period to determine whether a decline in fair value should be considered other-than-temporary. If an OTTI exists, the unrealized credit loss is included in earnings. There were no material credit losses as of December 31, 2018, and 2017.

Other Investments amounts are recorded in Other within Other Noncurrent Assets on the Consolidated Balance Sheets.

DUKE ENERGY

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2018			December 31, 2017		
	Gross	Gross	Estimated	Gross	Gross	Estimated
	Unrealized	Unrealized		Unrealized	Unrealized	
	Holding	Holding	Fair Value	Holding	Holding	Fair Value
	Gains	Losses		Gains	Losses	
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 88	\$ —	\$ —	\$ 115
Equity securities	2,402	95	4,475	2,805	27	4,914
Corporate debt securities	4	13	566	17	2	570
Municipal bonds	1	4	353	4	3	344
U.S. government bonds	14	12	1,076	11	7	1,027
Other debt securities	—	2	148	—	1	118
Total NDTF Investments	\$ 2,421	\$ 126	\$ 6,706	\$ 2,837	\$ 40	\$ 7,088
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 22	\$ —	\$ —	\$ 15
Equity securities	36	1	99	59	—	123
Corporate debt securities	—	2	60	1	—	57
Municipal bonds	—	1	85	2	1	83
U.S. government bonds	1	—	45	—	—	41
Other debt securities	—	1	58	—	1	44
Total Other Investments	\$ 37	\$ 5	\$ 369	\$ 62	\$ 2	\$ 363
Total Investments	\$ 2,458	\$ 131	\$ 7,075	\$ 2,899	\$ 42	\$ 7,451

FINANCIAL STATEMENTS

INVESTMENTS IN DEBT AND EQUITY SECURITIES

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2018
Due in one year or less	\$ 98
Due after one through five years	501
Due after five through 10 years	570
Due after 10 years	1,222
Total	\$ 2,391

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the year ended December 31, 2018, and from sales of AFS securities for the years ended December 31, 2017, and 2016, were as follows.

(in millions)	Year Ended December 31, 2018
FV-NI:	
Realized gains	\$ 168
Realized losses	126
AFS:	
Realized gains	22
Realized losses	51

(in millions)	Years Ended December 31,	
	2017	2016
Realized gains	\$ 202	\$ 246
Realized losses	160	187

DUKE ENERGY CAROLINAS

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2018			December 31, 2017		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 29	\$ —	\$ —	\$ 32
Equity securities	1,309	54	2,484	1,531	12	2,692
Corporate debt securities	2	9	341	9	2	359
Municipal bonds	—	1	81	—	1	60
U.S. government bonds	5	8	475	3	4	503
Other debt securities	—	2	143	—	1	112
Total NDTF Investments	\$ 1,316	\$ 74	\$ 3,553	\$ 1,543	\$ 20	\$ 3,758

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2018
Due in one year or less	\$ 6
Due after one through five years	142
Due after five through 10 years	303
Due after 10 years	589
Total	\$ 1,040

FINANCIAL STATEMENTS

INVESTMENTS IN DEBT AND EQUITY SECURITIES

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the year ended December 31, 2018, and from sales of AFS securities for the years ended December 31, 2017, and 2016, were as follows.

	Year Ended December 31,	
(in millions)	2018	
FV-NI:		
Realized gains	\$	89
Realized losses		73
AFS:		
Realized gains		19
Realized losses		35

(in millions)	Years Ended December 31,		
	2017		2016
Realized gains	\$	135	\$ 157
Realized losses		103	121

PROGRESS ENERGY

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2018			December 31, 2017		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 59	\$ —	\$ —	\$ 83
Equity securities	1,093	41	1,991	1,274	15	2,222
Corporate debt securities	2	4	225	8	—	211
Municipal bonds	1	3	272	4	2	284
U.S. government bonds	9	4	601	8	3	524
Other debt securities	—	—	5	—	—	6
Total NDTF Investments	\$ 1,105	\$ 52	\$ 3,153	\$ 1,294	\$ 20	\$ 3,330
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 17	\$ —	\$ —	\$ 12
Municipal bonds	—	—	47	2	—	47
Total Other Investments	\$ —	\$ —	\$ 64	\$ 2	\$ —	\$ 59
Total Investments	\$ 1,105	\$ 52	\$ 3,217	\$ 1,296	\$ 20	\$ 3,389

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2018
Due in one year or less	\$ 87
Due after one through five years	306
Due after five through 10 years	216
Due after 10 years	541
Total	\$ 1,150

FINANCIAL STATEMENTS

INVESTMENTS IN DEBT AND EQUITY SECURITIES

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the year ended December 31, 2018, and from sales of AFS securities for the years ended December 31, 2017, and 2016, were as follows.

	Year Ended December 31,	
(in millions)	2018	
FV-NI:		
Realized gains	\$	79
Realized losses		53
AFS:		
Realized gains		3
Realized losses		15

(in millions)	Years Ended December 31,			
	2017		2016	
Realized gains	\$	65	\$	84
Realized losses		56		64

DUKE ENERGY PROGRESS

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2018			December 31, 2017		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 46	\$ —	\$ —	\$ 50
Equity securities	833	30	1,588	980	12	1,795
Corporate debt securities	2	3	171	6	—	149
Municipal bonds	1	3	271	4	2	283
U.S. government bonds	6	3	415	5	2	310
Other debt securities	—	—	3	—	—	4
Total NDTF Investments	\$ 842	\$ 39	\$ 2,494	\$ 995	\$ 16	\$ 2,591
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 6	\$ —	\$ —	\$ 1
Total Other Investments	\$ —	\$ —	\$ 6	\$ —	\$ —	\$ 1
Total Investments	\$ 842	\$ 39	\$ 2,500	\$ 995	\$ 16	\$ 2,592

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2018
Due in one year or less	\$ 49
Due after one through five years	231
Due after five through 10 years	161
Due after 10 years	419
Total	\$ 860

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Step 13 2021

FINANCIAL STATEMENTS

INVESTMENTS IN DEBT AND EQUITY SECURITIES

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the year ended December 31, 2018, and from sales of AFS securities for the years ended December 31, 2017, and 2016, were as follows.

(in millions)	Year Ended December 31,	
	2018	
FV-NI:		
Realized gains	\$	68
Realized losses		48
AFS:		
Realized gains	\$	2
Realized losses		10

(in millions)	Years Ended December 31,		
	2017		2016
Realized gains	\$	54	\$ 71
Realized losses		48	55

DUKE ENERGY FLORIDA

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2018			December 31, 2017		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 13	\$ —	\$ —	\$ 33
Equity securities	260	11	403	294	3	427
Corporate debt securities	—	1	54	2	—	62
Municipal bonds	—	—	1	—	—	1
U.S. government bonds	3	1	186	3	1	214
Other debt securities	—	—	2	—	—	2
Total NDTF Investments^(a)	\$ 263	\$ 13	\$ 659	\$ 299	\$ 4	\$ 739
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 1	\$ —	\$ —	\$ 1
Municipal bonds	—	—	47	2	—	47
Total Other Investments	\$ —	\$ —	\$ 48	\$ 2	\$ —	\$ 48
Total Investments	\$ 263	\$ 13	\$ 707	\$ 301	\$ 4	\$ 787

- (a) During the year ended December 31, 2018, Duke Energy Florida continued to receive reimbursements from the NDTF for costs related to ongoing decommissioning activity of the Crystal River Unit 3 nuclear plant.

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2018
Due in one year or less	\$ 38
Due after one through five years	75
Due after five through 10 years	55
Due after 10 years	122
Total	\$ 290

FINANCIAL STATEMENTS

INVESTMENTS IN DEBT AND EQUITY SECURITIES

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the year ended December 31, 2018, and from sales of AFS securities for the years ended December 31, 2017, and 2016, were as follows.

(in millions)	Year Ended December 31,	
	2018	
FV-NI:		
Realized gains	\$	11
Realized losses		5
AFS:		
Realized gains		1
Realized losses		5

(in millions)	Years Ended December 31,		
	2017		2016
Realized gains	\$	11	\$ 13
Realized losses		8	9

DUKE ENERGY INDIANA

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are measured at FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2018			December 31, 2017		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
Investments						
Equity securities	\$ 29	\$ —	\$ 67	\$ 49	\$ —	\$ 97
Corporate debt securities	—	—	8	—	—	3
Municipal bonds	—	1	33	—	1	28
Total Investments	\$ 29	\$ 1	\$ 108	\$ 49	\$ 1	\$ 128

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2018
Due in one year or less	\$ 3
Due after one through five years	20
Due after five through 10 years	4
Due after 10 years	14
Total	\$ 41

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the year ended December 31, 2018, and from sales of AFS securities for the years ended December 31, 2017, and 2016, were insignificant.

16. FAIR VALUE MEASUREMENTS

Fair value is the exchange price to sell an asset or transfer a liability in an orderly transaction between market participants at the measurement date. The fair value definition focuses on an exit price versus the acquisition cost. Fair value measurements use market data or assumptions market participants would use in pricing the asset or liability, including assumptions about risk and the risks inherent in the inputs to the valuation technique. These inputs may be readily observable, corroborated by market data, or generally unobservable. Valuation techniques maximize the use of observable inputs and minimize use of unobservable inputs. A midmarket pricing convention (the midpoint price between bid and ask prices) is permitted for use as a practical expedient.

Fair value measurements are classified in three levels based on the fair value hierarchy as defined by GAAP. Certain investments are not categorized within the fair value hierarchy. These investments are measured at fair value using the NAV per share practical expedient. The NAV is derived based on the investment cost, less any impairment, plus or minus changes resulting from observable price changes for an identical or similar investment of the same issuer.

FINANCIAL STATEMENTS

FAIR VALUE MEASUREMENTS

Fair value accounting guidance permits entities to elect to measure certain financial instruments that are not required to be accounted for at fair value, such as equity method investments or the company's own debt, at fair value. The Duke Energy Registrants have not elected to record any of these items at fair value.

Transfers between levels represent assets or liabilities that were previously (i) categorized at a higher level for which the inputs to the estimate became less observable or (ii) classified at a lower level for which the inputs became more observable during the period. The Duke Energy Registrant's policy is to recognize transfers between levels of the fair value hierarchy at the end of the period. There were no transfers between levels during the years ended December 31, 2018, 2017 and 2016. In addition, for Piedmont, there were no transfers between levels during the two months ended December 31, 2016, and the year ended October 31, 2016.

Valuation methods of the primary fair value measurements disclosed below are as follows.

Investments in equity securities

The majority of investments in equity securities are valued using Level 1 measurements. Investments in equity securities are typically valued at the closing price in the principal active market as of the last business day of the quarter. Principal active markets for equity prices include published exchanges such as the NYSE and the Nasdaq Stock Market. Foreign equity prices are translated from their trading currency using the currency exchange rate in effect at the close of the principal active market. There was no after-hours market activity that was required to be reflected in the reported fair value measurements.

Investments in debt securities

Most investments in debt securities are valued using Level 2 measurements because the valuations use interest rate curves and credit spreads applied to the terms of the debt instrument (maturity and coupon interest rate) and consider the counterparty credit rating. If the market for a particular fixed-income security is relatively inactive or illiquid, the measurement is Level 3.

Commodity derivatives

Commodity derivatives with clearinghouses are classified as Level 1. Other commodity derivatives, including Piedmont's natural gas supply contracts, are primarily valued using internally developed discounted cash flow models that incorporate forward price, adjustments for liquidity (bid-ask spread) and credit or non-performance risk (after reflecting credit enhancements such as collateral), and are discounted to present value. Pricing inputs are derived from published exchange transaction prices and other observable data sources. In the absence of an active market, the last available price may be used. If forward price curves are not observable for the full term of the contract and the unobservable period had more than an insignificant impact on the valuation, the commodity derivative is classified as Level 3. In isolation, increases (decreases) in natural gas forward prices result in favorable (unfavorable) fair value adjustments for natural gas purchase contracts; and increases (decreases) in electricity forward prices result in unfavorable (favorable) fair value adjustments for electricity sales contracts. Duke Energy regularly evaluates and validates pricing inputs used to estimate the fair value of natural gas commodity contracts by a market participant price verification procedure. This procedure provides a comparison of internal forward commodity curves to market participant generated curves.

Interest rate derivatives

Most over-the-counter interest rate contract derivatives are valued using financial models that utilize observable inputs for similar instruments and are classified as Level 2. Inputs include forward interest rate curves, notional amounts, interest rates and credit quality of the counterparties.

Other fair value considerations

See Note 11 for a discussion of the valuation of goodwill and intangible assets.

DUKE ENERGY

The following tables provide recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets. Derivative amounts in the tables below for all Duke Energy Registrants exclude cash collateral, which is disclosed in Note 14. See Note 15 for additional information related to investments by major security type for the Duke Energy Registrants.

(in millions)	December 31, 2018				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized
NDTF equity securities	\$ 4,475	\$ 4,410	\$ —	\$ —	65
NDTF debt securities	2,231	576	1,655	—	—
Other equity securities	99	99	—	—	—
Other debt securities	270	67	203	—	—
Derivative assets	57	4	25	28	—
Total assets	7,132	5,156	1,883	28	65
Derivative liabilities	(242)	(11)	(90)	(141)	—
Net assets (liabilities)	\$ 6,890	\$ 5,145	\$ 1,793	\$ (113)	65

FINANCIAL STATEMENTS

FAIR VALUE MEASUREMENTS

(in millions)	December 31, 2017				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized
NDTF equity securities	\$ 4,914	\$ 4,840	\$ —	\$ —	74
NDTF debt securities	2,174	635	1,539	—	—
Other equity securities	123	123	—	—	—
Other debt securities	241	57	184	—	—
Derivative assets	51	3	20	28	—
Total assets	7,503	5,658	1,743	28	74
Derivative liabilities	(230)	(2)	(86)	(142)	—
Net assets (liabilities)	\$ 7,273	\$ 5,656	\$ 1,657	\$ (114)	74

The following tables provide reconciliations of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements. Amounts included in earnings for derivatives are primarily included in Cost of natural gas on the Duke Energy Registrants' Consolidated Statements of Operations and Comprehensive Income. Amounts included in changes of net assets on the Duke Energy Registrants' Consolidated Balance Sheets are included in regulatory assets or liabilities. All derivative assets and liabilities are presented on a net basis.

(in millions)	December 31, 2018	December 31, 2017		
	Derivatives (net)	Investments	Derivatives (net)	Total
Balance at beginning of period	\$ (114)	\$ 5	\$ (166)	\$ (161)
Total pretax realized or unrealized gains included in comprehensive income	—	1	—	1
Purchases, sales, issuances and settlements:				
Purchases	57	—	55	55
Sales	—	(6)	—	(6)
Settlements	(57)	—	(47)	(47)
Total gains included on the Consolidated Balance Sheet	1	—	44	44
Balance at end of period	\$ (113)	\$ —	\$ (114)	\$ (114)

DUKE ENERGY CAROLINAS

The following tables provide recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2018			
	Total Fair Value	Level 1	Level 2	Not Categorized
NDTF equity securities	\$ 2,484	\$ 2,419	\$ —	65
NDTF debt securities	1,069	149	920	—
Derivative assets	3	—	3	—
Total assets	3,556	2,568	923	65
Derivative liabilities	(33)	—	(33)	—
Net assets	\$ 3,523	\$ 2,568	\$ 890	65

(in millions)	December 31, 2017			
	Total Fair Value	Level 1	Level 2	Not Categorized
NDTF equity securities	\$ 2,692	\$ 2,618	\$ —	74
NDTF debt securities	1,066	204	862	—
Derivative assets	2	—	2	—
Total assets	3,760	2,822	864	74
Derivative liabilities	(35)	(1)	(34)	—
Net assets	\$ 3,725	\$ 2,821	\$ 830	74

FINANCIAL STATEMENTS

FAIR VALUE MEASUREMENTS

The following table provides reconciliations of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Investments	
	Year Ended December 31,	
		2017
Balance at beginning of period	\$	3
Total pretax realized or unrealized gains included in comprehensive income		1
Purchases, sales, issuances and settlements:		
Sales		(4)
Balance at end of period	\$	—

PROGRESS ENERGY

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2018			December 31, 2017		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 2
NDTF equity securities	\$ 1,991	\$ 1,991	\$ —	\$ 2,222	\$ 2,222	\$ —
NDTF debt securities	1,162	427	735	1,108	431	677
Other debt securities	64	17	47	59	12	47
Derivative assets	4	—	4	3	1	2
Total assets	3,221	2,435	786	3,392	2,666	726
Derivative liabilities	(44)	—	(44)	(36)	(1)	(35)
Net assets	\$ 3,177	\$ 2,435	\$ 742	\$ 3,356	\$ 2,665	\$ 691

DUKE ENERGY PROGRESS

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2018			December 31, 2017		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 2
NDTF equity securities	\$ 1,588	\$ 1,588	\$ —	\$ 1,795	\$ 1,795	\$ —
NDTF debt securities	906	294	612	796	243	553
Other debt securities	6	6	—	1	1	—
Derivative assets	4	—	4	2	1	1
Total assets	2,504	1,888	616	2,594	2,040	554
Derivative liabilities	(27)	—	(27)	(18)	(1)	(17)
Net assets	\$ 2,477	\$ 1,888	\$ 589	\$ 2,576	\$ 2,039	\$ 537

DUKE ENERGY FLORIDA

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2018			December 31, 2017		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 2
NDTF equity securities	\$ 403	\$ 403	\$ —	\$ 427	\$ 427	\$ —
NDTF debt securities	256	133	123	312	188	124
Other debt securities	48	1	47	48	1	47
Derivative assets	—	—	—	1	—	1
Total assets	707	537	170	788	616	172
Derivative liabilities	(9)	—	(9)	(12)	—	(12)
Net assets	\$ 698	\$ 537	\$ 161	\$ 776	\$ 616	\$ 160

FINANCIAL STATEMENTS

FAIR VALUE MEASUREMENTS

DUKE ENERGY OHIO

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2018			December 31, 2017		
	Total Fair Value	Level 2	Level 3	Total Fair Value	Level 2	Level 3
Derivative assets	\$ 6	\$ —	\$ 6	\$ 1	\$ —	\$ 1
Derivative liabilities	(5)	(5)	—	(5)	(5)	—
Net assets (liabilities)	\$ 1	\$ (5)	\$ 6	\$ (4)	\$ (5)	\$ 1

The following table provides a reconciliation of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Derivatives (net)	
	Years Ended December 31,	
	2018	2017
Balance at beginning of period	\$ 1	\$ 5
Purchases, sales, issuances and settlements:		
Purchases	7	3
Settlements	(4)	(4)
Total gains included on the Consolidated Balance Sheet	2	(3)
Balance at end of period	\$ 6	\$ 1

DUKE ENERGY INDIANA

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2018				December 31, 2017			
	Total Fair Value	Level 1	Level 2	Level 3	Total Fair Value	Level 1	Level 2	Level 3
Other equity securities	\$ 67	\$ 67	\$ —	\$ —	\$ 97	\$ 97	\$ —	\$ —
Other debt securities	41	—	41	—	31	—	31	—
Derivative assets	23	1	—	22	27	—	—	27
Total assets	\$ 131	\$ 68	\$ 41	\$ 22	\$ 155	\$ 97	\$ 31	\$ 27

The following table provides a reconciliation of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Derivatives (net)	
	Years Ended December 31,	
	2018	2017
Balance at beginning of period	\$ 27	\$ 16
Purchases, sales, issuances and settlements:		
Purchases	50	52
Settlements	(53)	(43)
Total (losses) gains included on the Consolidated Balance Sheet	(2)	2
Balance at end of period	\$ 22	\$ 27

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Step 13 2021

FINANCIAL STATEMENTS

FAIR VALUE MEASUREMENTS

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The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2018			December 31, 2017		
	Total Fair Value	Level 1	Level 3	Total Fair Value	Level 1	Level 3
Other debt securities	\$ —	\$ —	\$ —	\$ 1	\$ 1	\$ —
Derivative assets	3	3	—	2	2	—
Total assets	3	3	—	3	3	—
Derivative liabilities	(141)	—	(141)	(142)	—	(142)
Net (liabilities) assets	\$ (138)	\$ 3	\$ (141)	\$ (139)	\$ 3	\$ (142)

The following table provides a reconciliation of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Derivatives (net)	
	Years Ended December 31,	
	2018	2017
Balance at beginning of period	\$ (142)	\$ (187)
Total gains and settlements	1	45
Balance at end of period	\$ (141)	\$ (142)

QUANTITATIVE INFORMATION ABOUT UNOBSERVABLE INPUTS

The following tables include quantitative information about the Duke Energy Registrants' derivatives classified as Level 3.

December 31, 2018				
Investment Type	Fair Value (in millions)	Valuation Technique	Unobservable Input	Range
Duke Energy Ohio				
FTRs	\$ 6	RTO auction pricing	FTR price — per MWh	\$ 1.19 — \$ 4.59
Duke Energy Indiana				
FTRs	22	RTO auction pricing	FTR price — per MWh	(2.07) — 8.27
Piedmont				
Natural gas contracts	(141)	Discounted cash flow	Forward natural gas curves — price per MMBtu	1.87 — 2.95
Duke Energy				
Total Level 3 derivatives	\$ (113)			

December 31, 2017				
Investment Type	Fair Value (in millions)	Valuation Technique	Unobservable Input	Range
Duke Energy Ohio				
FTRs	\$ 1	RTO auction pricing	FTR price — per MWh	\$ 0.07 — \$ 1.41
Duke Energy Indiana				
FTRs	27	RTO auction pricing	FTR price — per MWh	(0.77) — 7.44
Piedmont				
Natural gas contracts	(142)	Discounted cash flow	Forward natural gas curves — price per MMBtu	2.10 — 2.88
Duke Energy				
Total Level 3 derivatives	\$ (114)			

FINANCIAL STATEMENTS

FAIR VALUE MEASUREMENTS

OTHER FAIR VALUE DISCLOSURES

The fair value and book value of long-term debt, including current maturities, is summarized in the following table. Estimates determined are not necessarily indicative of amounts that could have been settled in current markets. Fair value of long-term debt uses Level 2 measurements.

(in millions)	December 31, 2018		December 31, 2017	
	Book Value	Fair Value	Book Value	Fair Value
Duke Energy ^(a)	\$ 54,529	\$ 54,534	\$ 52,279	\$ 55,331
Duke Energy Carolinas	10,939	11,471	10,103	11,372
Progress Energy	18,911	19,885	17,837	20,000
Duke Energy Progress	8,204	8,300	7,357	7,992
Duke Energy Florida	7,321	7,742	7,095	7,953
Duke Energy Ohio	2,165	2,239	2,067	2,249
Duke Energy Indiana	3,782	4,158	3,783	4,464
Piedmont	2,138	2,180	2,037	2,209

- (a) Book value of long-term debt includes \$1.6 billion as of December 31, 2018, and \$1.7 billion as of December 31, 2017, of unamortized debt discount and premium, net in purchase accounting adjustments related to the mergers with Progress Energy and Piedmont that are excluded from fair value of long-term debt.

At both December 31, 2018, and December 31, 2017, fair value of cash and cash equivalents, accounts and notes receivable, accounts payable, notes payable and commercial paper, and nonrecourse notes payable of VIEs are not materially different from their carrying amounts because of the short-term nature of these instruments and/or because the stated rates approximate market rates.

17. VARIABLE INTEREST ENTITIES

A VIE is an entity that is evaluated for consolidation using more than a simple analysis of voting control. The analysis to determine whether an entity is a VIE considers contracts with an entity, credit support for an entity, the adequacy of the equity investment of an entity and the relationship of voting power to the amount of equity invested in an entity. This analysis is performed either upon the creation of a legal entity or upon the occurrence of an event requiring reevaluation, such as a significant change in an entity's assets or activities. A qualitative analysis of control determines the party that consolidates a VIE. This assessment is based on (i) what party has the power to direct the activities of the VIE that most significantly impact its economic performance and (ii) what party has rights to receive benefits or is obligated to absorb losses that could potentially be significant to the VIE. The analysis of the party that consolidates a VIE is a continual reassessment.

CONSOLIDATED VIEs

The obligations of these VIEs discussed in the following paragraphs are nonrecourse to the Duke Energy Registrants. The registrants have no requirement to provide liquidity to, purchase assets of or guarantee performance of these VIEs unless noted in the following paragraphs.

No financial support was provided to any of the consolidated VIEs during the years ended December 31, 2018, 2017 and 2016, or is expected to be provided in the future, that was not previously contractually required.

Receivables Financing – DERF/DEPR/DEFR

DERF, DEPR and DEFR are bankruptcy remote, special purpose subsidiaries of Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, respectively. DERF, DEPR and DEFR are wholly owned limited liability companies with separate legal existence from their parent companies and their assets are not generally available to creditors of their parent companies. On a revolving basis, DERF, DEPR and DEFR buy certain accounts receivable arising from the sale of electricity and related services from their parent companies.

DERF, DEPR and DEFR borrow amounts under credit facilities to buy these receivables. Borrowing availability from the credit facilities is limited to the amount of qualified receivables purchased. The sole source of funds to satisfy the related debt obligations is cash collections from the receivables. Amounts borrowed under the credit facilities are reflected on the Consolidated Balance Sheets as Long-Term Debt.

The most significant activity that impacts the economic performance of DERF, DEPR and DEFR are the decisions made to manage delinquent receivables. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are considered the primary beneficiaries and consolidate DERF, DEPR and DEFR, respectively, as they make those decisions.

Receivables Financing – CRC

CRC is a bankruptcy remote, special purpose entity indirectly owned by Duke Energy. On a revolving basis, CRC buys certain accounts receivable arising from the sale of electricity, natural gas and related services from Duke Energy Ohio and Duke Energy Indiana. CRC borrows amounts under a credit facility to buy the receivables from Duke Energy Ohio and Duke Energy Indiana. Borrowing availability from the credit facility is limited to the amount of qualified receivables sold to CRC. The sole source of funds to satisfy the related debt obligation is cash collections from the receivables. Amounts borrowed under the credit facility are reflected on Duke Energy's Consolidated Balance Sheets as Long-Term Debt.

The proceeds Duke Energy Ohio and Duke Energy Indiana receive from the sale of receivables to CRC are approximately 75 percent cash and 25 percent in the form of a subordinated note from CRC. The subordinated note is a retained interest in the receivables sold. Depending on collection experience, additional equity infusions to CRC may be required by Duke Energy to maintain a minimum equity balance of \$3 million.

FINANCIAL STATEMENTS

VARIABLE INTEREST ENTITIES

CRC is considered a VIE because (i) equity capitalization is insufficient to support its operations, (ii) power to direct the activities that most significantly impact the economic performance of the entity are not performed by the equity holder and (iii) deficiencies in net worth of CRC are funded by Duke Energy. The most significant activities that impact the economic performance of CRC are decisions made to manage delinquent receivables. Duke Energy is considered the primary beneficiary and consolidates CRC as it makes these decisions. Neither Duke Energy Ohio nor Duke Energy Indiana consolidate CRC.

Receivables Financing – Credit Facilities

The following table outlines amounts and expiration dates of the credit facilities described above.

	CRC	Duke Energy		
		Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida
		DERF	DEPR	DEFR
Expiration date	December 2020	December 2020	February 2021	April 2021
Credit facility amount (in millions)	\$ 325	\$ 450	\$ 300	\$ 225
Amounts borrowed at December 31, 2018	325	450	300	225
Amounts borrowed at December 31, 2017	325	450	300	225
Restricted Receivables at December 31, 2018	564	699	547	357
Restricted Receivables at December 31, 2017	545	640	459	317

Nuclear Asset-Recovery Bonds – DEFPF

DEFPF is a bankruptcy remote, wholly owned special purpose subsidiary of Duke Energy Florida. DEFPF was formed in 2016 for the sole purpose of issuing nuclear asset-recovery bonds to finance Duke Energy Florida's unrecovered regulatory asset related to Crystal River Unit 3.

In 2016, DEFPF issued senior secured bonds and used the proceeds to acquire nuclear asset-recovery property from Duke Energy Florida. The nuclear asset-recovery property acquired includes the right to impose, bill, collect and adjust a non-bypassable nuclear asset-recovery charge from all Duke Energy Florida retail customers until the bonds are paid in full and all financing costs have been recovered. The nuclear asset-recovery bonds are secured by the nuclear asset-recovery property and cash collections from the nuclear asset-recovery charges are the sole source of funds to satisfy the debt obligation. The bondholders have no recourse to Duke Energy Florida. For additional information see Notes 4 and 6.

DEFPF is considered a VIE primarily because the equity capitalization is insufficient to support its operations. Duke Energy Florida has the power to direct the significant activities of the VIE as described above and therefore Duke Energy Florida is considered the primary beneficiary and consolidates DEFPF.

The following table summarizes the impact of DEFPF on Duke Energy Florida's Consolidated Balance Sheets.

(in millions)	December 31, 2018	December 31, 2017
Receivables of VIEs	\$ 5	\$ 4
Regulatory Assets: Current	52	51
Current Assets: Other	39	40
Other Noncurrent Assets: Regulatory assets	1,041	1,091
Current Liabilities: Other	10	10
Current maturities of long-term debt	53	53
Long-Term Debt	1,111	1,164

Commercial Renewables

Certain of Duke Energy's renewable energy facilities are VIEs due to Duke Energy issuing guarantees for debt service and operations and maintenance reserves in support of debt financings. Assets are restricted and cannot be pledged as collateral or sold to third parties without prior approval of debt holders. Additionally, Duke Energy has VIEs associated with tax equity arrangements entered into with third-party investors in order to finance the cost of solar energy systems eligible for tax credits. The activities that most significantly impacted the economic performance of these renewable energy facilities were decisions associated with siting, negotiating PPAs and EPC agreements, and decisions associated with ongoing operations and maintenance-related activities. Duke Energy is considered the primary beneficiary and consolidates the entities as it is responsible for all of these decisions.

FINANCIAL STATEMENTS

VARIABLE INTEREST ENTITIES

The table below presents material balances reported on Duke Energy's Consolidated Balance Sheets related to renewables VIEs.

(in millions)	December 31, 2018	December 31, 2017
Current Assets: Other	\$ 123	\$ 174
Property, plant and equipment, cost	4,007	3,923
Accumulated depreciation and amortization	(698)	(591)
Other Noncurrent Assets: Other	261	50
Current maturities of long-term debt	174	170
Long-Term Debt	1,587	1,700
Other Noncurrent Liabilities: Deferred income taxes	—	(148)
Other Noncurrent Liabilities: Asset Retirement Obligations	106	83
Other Noncurrent Liabilities: Other	212	241

NON-CONSOLIDATED VIEs

The following tables summarize the impact of non-consolidated VIEs on the Consolidated Balance Sheets.

(in millions)	December 31, 2018						
	Duke Energy				Duke Energy Ohio	Duke Energy Indiana	
	Pipeline Investments	Commercial Renewables	Other VIEs	Total			
Receivables from affiliated companies	\$ —	\$ —	\$ —	\$ —	\$ 93	\$ 118	
Investments in equity method unconsolidated affiliates	822	190	48	1,060	—	—	
Total assets	\$ 822	\$ 190	\$ 48	\$ 1,060	\$ 93	\$ 118	
Taxes accrued	(1)	—	—	(1)	—	—	
Other current liabilities	—	—	4	4	—	—	
Deferred income taxes	21	—	—	21	—	—	
Other noncurrent liabilities	—	—	12	12	—	—	
Total liabilities	\$ 20	\$ —	\$ 16	\$ 36	\$ —	\$ —	
Net assets	\$ 802	\$ 190	\$ 32	\$ 1,024	\$ 93	\$ 118	

(in millions)	December 31, 2017						
	Duke Energy				Duke Energy Ohio	Duke Energy Indiana	
	Pipeline Investments	Commercial Renewables	Other VIEs	Total			
Receivables from affiliated companies	\$ —	\$ —	\$ —	\$ —	\$ 87	\$ 106	
Investments in equity method unconsolidated affiliates	697	180	42	919	—	—	
Other noncurrent assets	17	—	—	17	—	—	
Total assets	\$ 714	\$ 180	\$ 42	\$ 936	\$ 87	\$ 106	
Taxes accrued	(29)	—	—	(29)	—	—	
Other current liabilities	—	—	4	4	—	—	
Deferred income taxes	42	—	—	42	—	—	
Other noncurrent liabilities	—	—	12	12	—	—	
Total liabilities	\$ 13	\$ —	\$ 16	\$ 29	\$ —	\$ —	
Net assets	\$ 701	\$ 180	\$ 26	\$ 907	\$ 87	\$ 106	

The Duke Energy Registrants are not aware of any situations where the maximum exposure to loss significantly exceeds the carrying values shown above except for the power purchase agreement with OVEC, which is discussed below, and various guarantees, including Duke Energy's guarantee agreement to support its share of the ACP revolving credit facility. Duke Energy's maximum exposure to loss under the terms of the guarantee is \$677 million as of December 31, 2018. For more information on various guarantees, refer to Note 7.

Pipeline Investments

Duke Energy has investments in various joint ventures with pipeline projects currently under construction. These entities are considered VIEs due to having insufficient equity to finance their own activities without subordinated financial support. Duke Energy does not have the power to direct the activities that most significantly impact the economic performance, the obligation to absorb losses or the right to receive benefits of these VIEs and therefore does not consolidate these entities.

FINANCIAL STATEMENTS

VARIABLE INTEREST ENTITIES

The table below presents Duke Energy's ownership interest and investment balance in these joint ventures.

Entity Name	Ownership Interest	Investment Amount (in millions)	
		December 31, 2018	December 31, 2017
ACP	47%	\$ 797	\$ 397
Sabal Trail ^(a)	7.5%	—	219
Constitution ^(b)	24%	25	81
Total		\$ 822	\$ 697

- (a) At December 31, 2017, Sabal Trail was considered a VIE due to having insufficient equity to finance their own activities without subordinated financial support. However, Sabal Trail is now a fully operational, well capitalized entity. As a result, Sabal Trail has sufficient equity to finance its own activities, and therefore, is no longer considered a VIE. Duke Energy's investment in Sabal Trail was \$112 million at December 31, 2018.
- (b) During the year ended December 31, 2018, Duke Energy recorded an OTTI of \$55 million related to Constitution within Equity in earnings of unconsolidated affiliates on Duke Energy's Consolidated Statements of Income. See Note 4 for additional information.

Commercial Renewables

Duke Energy has investments in various renewable energy project entities. Some of these entities are VIEs due to Duke Energy issuing guarantees for debt service and operations and maintenance reserves in support of debt financings. Duke Energy does not consolidate these VIEs because power to direct and control key activities is shared jointly by Duke Energy and other owners.

Pioneer

Duke Energy holds a 50 percent equity interest in Pioneer. Pioneer is considered a VIE due to having insufficient equity to finance their own activities without subordinated financial support. The activities that most significantly impact Pioneer's economic performance are decisions related to the development of new transmission facilities. The power to direct these activities is jointly and equally shared by Duke Energy and the other joint venture partner, American Electric Power; therefore, Duke Energy does not consolidate Pioneer.

OVEC

Duke Energy Ohio's 9 percent ownership interest in OVEC is considered a non-consolidated VIE due to having insufficient equity to finance its activities without subordinated financial support. The activities that most significantly impact OVEC's economic performance include fuel strategy and supply activities and decisions associated with ongoing operations and maintenance-related activities. Duke Energy Ohio does not have the unilateral power to direct these activities, and therefore, does not consolidate OVEC.

As a counterparty to an ICPA, Duke Energy Ohio has a contractual arrangement to receive entitlements to capacity and energy from OVEC's power plants through June 2040 commensurate with its power participation ratio, which is equivalent to Duke Energy Ohio's ownership interest. Costs, including fuel, operating expenses, fixed costs, debt amortization, and interest expense, are allocated to counterparties to the ICPA based on their power participation ratio. The value of the ICPA is subject to variability due to fluctuation in power prices and changes in OVEC's cost of business. On March 31, 2018, FES, a subsidiary of FirstEnergy and an ICPA counterparty with a power participation ratio of 4.85 percent, filed for Chapter 11 bankruptcy, which could increase costs allocated to the counterparties. On July 31, 2018, the bankruptcy court rejected the FES ICPA, which means OVEC is an unsecured creditor in the FES bankruptcy proceeding. Duke Energy Ohio cannot predict the impact of the bankruptcy filing on its OVEC interests. In addition, certain proposed environmental rulemaking could result in future increased OVEC cost allocations. See Note 4 for additional information.

CRC

See discussion under Consolidated VIEs for additional information related to CRC.

Amounts included in Receivables from affiliated companies in the above table for Duke Energy Ohio and Duke Energy Indiana reflect their retained interest in receivables sold to CRC. These subordinated notes held by Duke Energy Ohio and Duke Energy Indiana are stated at fair value. Carrying values of retained interests are determined by allocating carrying value of the receivables between assets sold and interests retained based on relative fair value. The allocated bases of the subordinated notes are not materially different than their face value because (i) the receivables generally turnover in less than two months, (ii) credit losses are reasonably predictable due to the broad customer base and lack of significant concentration and (iii) the equity in CRC is subordinate to all retained interests and thus would absorb losses first. The hypothetical effect on fair value of the retained interests assuming both a 10 percent and a 20 percent unfavorable variation in credit losses or discount rates is not material due to the short turnover of receivables and historically low credit loss history. Interest accrues to Duke Energy Ohio and Duke Energy Indiana on the retained interests using the acceptable yield method. This method generally approximates the stated rate on the notes since the allocated basis and the face value are nearly equivalent. An impairment charge is recorded against the carrying value of both retained interests and purchased beneficial interest whenever it is determined that an OTTI has occurred.

FINANCIAL STATEMENTS

VARIABLE INTEREST ENTITIES

Key assumptions used in estimating fair value are detailed in the following table.

	Duke Energy Ohio		Duke Energy Indiana	
	2018	2017	2018	2017
Anticipated credit loss ratio	0.5%	0.5%	0.3%	0.3%
Discount rate	3.0%	2.1%	3.0%	2.1%
Receivable turnover rate	13.5%	13.5%	11.0%	10.7%

The following table shows the gross and net receivables sold.

(in millions)	Duke Energy Ohio		Duke Energy Indiana	
	2018	2017	2018	2017
Receivables sold	\$ 269	\$ 273	\$ 336	\$ 312
Less: Retained interests	93	87	118	106
Net receivables sold	\$ 176	\$ 186	\$ 218	\$ 206

The following table shows sales and cash flows related to receivables sold.

(in millions)	Duke Energy Ohio			Duke Energy Indiana		
	Years Ended December 31,			Years Ended December 31,		
	2018	2017	2016	2018	2017	2016
Sales						
Receivables sold	\$ 1,987	\$ 1,879	\$ 1,926	\$ 2,842	\$ 2,711	\$ 2,635
Loss recognized on sale	13	10	9	16	12	11
Cash Flows						
Cash proceeds from receivables sold	1,967	1,865	1,882	2,815	2,694	2,583
Collection fees received	1	1	1	1	1	1
Return received on retained interests	6	3	2	9	7	5

Cash flows from the sales of receivables are reflected within Cash Flows From Operating Activities on Duke Energy Ohio's and Duke Energy Indiana's Consolidated Statements of Cash Flows.

Collection fees received in connection with servicing transferred accounts receivable are included in Operation, maintenance and other on Duke Energy Ohio's and Duke Energy Indiana's Consolidated Statements of Operations and Comprehensive Income. The loss recognized on sales of receivables is calculated monthly by multiplying receivables sold during the month by the required discount. The required discount is derived monthly utilizing a three-year weighted average formula that considers charge-off history, late charge history and turnover history on the sold receivables, as well as a component for the time value of money. The discount rate, or component for the time value of money, is the prior month-end LIBOR plus a fixed rate of 1.00 percent.

18. REVENUE

As described in Note 1, Duke Energy adopted Revenue from Contracts with Customers effective January 1, 2018, using the modified retrospective method of adoption, which does not require restatement of prior year reported results. No cumulative effect adjustment was recorded as the vast majority of Duke Energy's revenues are at-will and without a defined contractual term. Additionally, comparative disclosures for 2018 operating results with the previous revenue recognition rules are not applicable as Duke Energy's revenue recognition has not materially changed as a result of the new standard.

Duke Energy recognizes revenue consistent with amounts billed under tariff offerings or at contractually agreed upon rates based on actual physical delivery of electric or natural gas service, including estimated volumes delivered when billings have not yet occurred. As such, the majority of Duke Energy's revenues have fixed pricing based on the contractual terms of the published tariffs, with variability in expected cash flows attributable to the customer's volumetric demand and ultimate quantities of energy or natural gas supplied and used during the billing period. The stand-alone selling price of related sales are designed to support recovery of prudently incurred costs and an appropriate return on invested assets and are primarily governed by published tariff rates or contractual agreements approved by relevant regulatory bodies. As described in Note 1, certain excise taxes and franchise fees levied by state or local governments are required to be paid even if not collected from the customer. These taxes are recognized on a gross basis as part of revenues. Duke Energy elects to account for all other taxes net of revenues.

Performance obligations are satisfied over time as energy or natural gas is delivered and consumed with billings generally occurring monthly and related payments due within 30 days, depending on regulatory requirements. In no event does the timing between payment and delivery of the goods and services exceed one year. Using this output method for revenue recognition provides a faithful depiction of the transfer of electric and natural gas service as customers obtain control of the commodity and benefit from its use at delivery. Additionally, Duke Energy has an enforceable right to consideration for energy or natural gas delivered at any discrete point in time, and will recognize revenue at an amount that reflects the consideration to which Duke Energy is entitled for the energy or natural gas delivered.

FINANCIAL STATEMENTS

REVENUE

As described above, the majority of Duke Energy's tariff revenues are at-will and, as such, related contracts with customers have an expected duration of one year or less and will not have future performance obligations for disclosure. Additionally, other long-term revenue streams, including wholesale contracts, generally provide services that are part of a single performance obligation, the delivery of electricity or natural gas. As such, other than material fixed consideration under long-term contracts, related disclosures for future performance obligations are also not applicable.

Duke Energy earns substantially all of its revenues through its reportable segments, Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables.

Electric Utilities and Infrastructure

Electric Utilities and Infrastructure earns the majority of its revenues through retail and wholesale electric service through the generation, transmission, distribution and sale of electricity. Duke Energy generally provides retail and wholesale electric service customers with their full electric load requirements or with supplemental load requirements when the customer has other sources of electricity.

Retail electric service is generally marketed throughout Duke Energy's electric service territory through standard service offers. The standard service offers are through tariffs determined by regulators in Duke Energy's regulated service territory. Each tariff, which is assigned to customers based on customer class, has multiple components such as an energy charge, a demand charge, a basic facilities charge and applicable riders. Duke Energy considers each of these components to be aggregated into a single performance obligation for providing electric service, or in the case of distribution only customers in Duke Energy Ohio, for delivering electricity. Electricity is considered a single performance obligation satisfied over time consistent with the series guidance and is provided and consumed over the billing period, generally one month. Retail electric service is typically provided to at-will customers who can cancel service at any time, without a substantive penalty. Additionally, Duke Energy adheres to applicable regulatory requirements in each jurisdiction to ensure the collectability of amounts billed and appropriate mitigating procedures are followed when necessary. As such, revenue from contracts with customers for such contracts is equivalent to the electricity supplied and billed in that period (including unbilled estimates).

Wholesale electric service is generally provided under long-term contracts using cost-based pricing. FERC regulates costs that may be recovered from customers and the amount of return companies are permitted to earn. Wholesale contracts include both energy and demand charges. For full requirements contracts, Duke Energy considers both charges as a single performance obligation for providing integrated electric service. For contracts where energy and demand charges are considered separate performance obligations, energy and demand are each a distinct performance obligation under the series guidance and are satisfied as energy is delivered and stand-ready service is provided on a monthly basis. This service represents consumption over the billing period and revenue is recognized consistent with billings and unbilled estimates, which generally occur monthly. Contractual amounts owed are typically trued up annually based upon incurred costs in accordance with FERC published filings and the specific customer's actual peak demand. Estimates of variable consideration related to potential additional billings or refunds owed are updated quarterly.

The majority of wholesale revenues are full requirements contracts where the customers purchase the substantial majority of their energy needs and do not have a fixed quantity of contractually required energy or capacity. As such, related forecasted revenues are considered optional purchases. Supplemental requirements contracts that include contracted blocks of energy and capacity at contractually fixed prices have the following estimated remaining performance obligations:

(in millions)	Remaining Performance Obligations						
	2019	2020	2021	2022	2023	Thereafter	Total
Progress Energy	\$ 112	\$ 121	\$ 80	\$ 82	\$ 39	\$ 42	\$ 476
Duke Energy Progress	9	9	9	9	9	9	54
Duke Energy Florida	103	112	71	73	30	33	422
Duke Energy Indiana	9	10	5	—	—	—	24

Revenues for block sales are recognized monthly as energy is delivered and stand-ready service is provided, consistent with invoiced amounts and unbilled estimates.

Gas Utilities and Infrastructure

Gas Utilities and Infrastructure earns its revenue through retail and wholesale natural gas service through the transportation, distribution and sale of natural gas. Duke Energy generally provides retail and wholesale natural gas service customers with all natural gas load requirements. Additionally, while natural gas can be stored, substantially all natural gas provided by Duke Energy is consumed by customers simultaneously with receipt of delivery.

Retail natural gas service is marketed throughout Duke Energy's natural gas service territory using published tariff rates. The tariff rates are established by regulators in Duke Energy's service territories. Each tariff, which is assigned to customers based on customer class, have multiple components, such as a commodity charge, demand charge, customer or monthly charge and transportation costs. Duke Energy considers each of these components to be aggregated into a single performance obligation for providing natural gas service. For contracts where Duke Energy provides all of the customer's natural gas needs, the delivery of natural gas is considered a single performance obligation satisfied over time, and revenue is recognized monthly based on billings and unbilled estimates as service is provided and the commodity is consumed over the billing period. Additionally, natural gas service is typically at-will and customers can cancel service at any time, without a substantive penalty. Duke Energy also adheres to applicable regulatory requirements to ensure the collectability of amounts billed and receivable and appropriate mitigating procedures are followed when necessary.

FINANCIAL STATEMENTS

REVENUE

Certain long-term individually negotiated contracts exist to provide natural gas service. These contracts are regulated and approved by state commissions. The negotiated contracts have multiple components, including a natural gas and a demand charge, similar to retail natural gas contracts. Duke Energy considers each of these components to be a single performance obligation for providing natural gas service. This service represents consumption over the billing period, generally one month.

Fixed capacity payments under long-term contracts for the Gas Utilities and Infrastructure segment include minimum margin contracts and supply arrangements with municipalities and power generation facilities. Revenues for related sales are recognized monthly as natural gas is delivered and stand-ready service is provided, consistent with invoiced amounts and unbilled estimates. Estimated remaining performance obligations are as follows:

(in millions)	Remaining Performance Obligations						Total
	2019	2020	2021	2022	2023	Thereafter	
Piedmont	\$ 70	\$ 68	\$ 63	\$ 63	\$ 60	\$ 430	\$ 754

Commercial Renewables

Commercial Renewables earns the majority of its revenues through long-term PPAs and generally sells all of its wind and solar facility output, electricity and RECs to customers. The majority of these PPAs have historically been accounted for as leases. For PPAs that are not accounted for as leases, the delivery of electricity and the delivery of RECs are considered separate performance obligations.

The delivery of electricity is a performance obligation satisfied over time and represents generation and consumption of the electricity over the billing period, generally one month. The delivery of RECs is a performance obligation satisfied at a point in time and represents delivery of each REC generated by the wind or solar facility. The majority of self-generated RECs are bundled with energy in Duke Energy's contracts and, as such, related revenues are recognized as energy is generated and delivered as that pattern is consistent with Duke Energy's performance. Commercial Renewables recognizes revenue based on the energy generated and billed for the period, generally one month, at contractual rates (including unbilled estimates) according to the invoice practical expedient. Amounts are typically due within 30 days of invoice.

Commercial Renewables also earns revenues from installation of distributed solar generation resources, which is primarily composed of EPC projects to deliver functioning solar power systems, generally completed within two to 12 months from commencement of construction. The installation of distributed solar generation resources is a performance obligation that is satisfied over time. Revenue from fixed-price EPC contracts is recognized using the input method as work is performed based on the estimated ratio of incurred costs to estimated total costs.

Other

The remainder of Duke Energy's operations is presented as Other, which does not include material revenues from contracts with customers.

FINANCIAL STATEMENTS

REVENUE

Disaggregated Revenues

For the Electric and Gas Utility and Infrastructure segments, revenue by customer class is most meaningful to Duke Energy as each respective customer class collectively represents unique customer expectations of service, generally has different energy and demand requirements, and operates under tailored, regulatory approved pricing structures. Additionally, each customer class is impacted differently by weather and a variety of economic factors including the level of population growth, economic investment, employment levels, and regulatory activities in each of Duke Energy's jurisdictions. As such, analyzing revenues disaggregated by customer class allows Duke Energy to understand the nature, amount, timing and uncertainty of revenue and cash flows arising from contracts with customers. For the Commercial Renewables segment, the majority of revenues from contracts with customers are from selling all of the unit-contingent output at contractually defined pricing under long-term PPAs with consistent expectations regarding the timing and certainty of cash flows. Disaggregated revenues are presented as follows:

(in millions) By market or type of customer	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Electric Utilities and Infrastructure								
Residential	\$ 9,587	\$ 2,981	\$ 4,785	\$ 2,019	\$ 2,766	\$ 743	\$ 1,076	\$ —
General	6,127	2,119	2,809	1,280	1,529	422	778	—
Industrial	2,974	1,180	904	642	262	131	760	—
Wholesale	2,324	508	1,462	1,303	159	57	298	—
Other revenues	717	320	502	320	182	73	91	—
Total Electric Utilities and Infrastructure revenue from contracts with customers	\$ 21,729	\$ 7,108	\$ 10,462	\$ 5,564	\$ 4,898	\$ 1,426	\$ 3,003	\$ —
Gas Utilities and Infrastructure								
Residential	\$ 1,000	\$ —	\$ —	\$ —	\$ —	\$ 331	\$ —	\$ 669
Commercial	514	—	—	—	—	135	—	378
Industrial	147	—	—	—	—	18	—	128
Power Generation	—	—	—	—	—	—	—	54
Other revenues	139	—	—	—	—	19	—	120
Total Gas Utilities and Infrastructure revenue from contracts with customers	\$ 1,800	\$ —	\$ —	\$ —	\$ —	\$ 503	\$ —	\$ 1,349
Commercial Renewables								
Revenue from contracts with customers	\$ 209	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Other								
Revenue from contracts with customers	\$ 19	\$ —	\$ —	\$ —	\$ —	\$ 1	\$ —	\$ —
Total revenue from contracts with customers	\$ 23,757	\$ 7,108	\$ 10,462	\$ 5,564	\$ 4,898	\$ 1,930	\$ 3,003	\$ 1,349
Other revenue sources ^(a)	\$ 764	\$ 192	\$ 266	\$ 135	\$ 123	\$ 27	\$ 56	\$ 26
Total revenues	\$ 24,521	\$ 7,300	\$ 10,728	\$ 5,699	\$ 5,021	\$ 1,957	\$ 3,059	\$ 1,375

- (a) Other revenue sources include revenues from leases, derivatives and alternative revenue programs that are not considered revenues from contracts with customers. Alternative revenue programs in certain jurisdictions include regulatory mechanisms that periodically adjust for over or under collection of related revenues.

IMPACT OF WEATHER AND THE TIMING OF BILLING PERIODS

Revenues and costs are influenced by seasonal weather patterns. Peak sales of electricity occur during the summer and winter months, which results in higher revenue and cash flows during these periods. By contrast, lower sales of electricity occur during the spring and fall, allowing for scheduled plant maintenance. Residential and general service customers are more impacted by weather than industrial customers. Estimated weather impacts are based on actual current period weather compared to normal weather conditions. Normal weather conditions are defined as the long-term average of actual historical weather conditions. Heating-degree days measure the variation in weather based on the extent the average daily temperature falls below a base temperature. Cooling-degree days measure the variation in weather based on the extent the average daily temperature rises above the base temperature. Each degree of temperature below the base temperature counts as one heating-degree day and each degree of temperature above the base temperature counts as one cooling-degree day.

FINANCIAL STATEMENTS

REVENUE

The estimated impact of weather on earnings for Electric Utilities and Infrastructure is based on the temperature variances from a normal condition and customers' historic usage patterns. The methodology used to estimate the impact of weather does not consider all variables that may impact customer response to weather conditions, such as humidity in the summer or wind chill in the winter. The precision of this estimate may also be impacted by applying long-term weather trends to shorter-term periods.

Gas Utilities and Infrastructure's costs and revenues are influenced by seasonal patterns due to peak natural gas sales occurring during the winter months as a result of space heating requirements. Residential customers are the most impacted by weather. There are certain regulatory mechanisms for the North Carolina, South Carolina, Tennessee and Ohio service territories that normalize the margins collected from certain customer classes during the winter. In North Carolina, rate design provides protection from both weather and other usage variations such as conservation, while South Carolina and Tennessee revenues are adjusted solely based on weather. Ohio primarily employs a fixed charge each month regardless of the season and usage.

UNBILLED REVENUE

Unbilled revenues are recognized by applying customer billing rates to the estimated volumes of energy or natural gas delivered but not yet billed. Unbilled revenues can vary significantly from period to period as a result of seasonality, weather, customer usage patterns, customer mix, average price in effect for customer classes, timing of rendering customer bills and meter reading schedules, and the impact of weather normalization or margin decoupling mechanisms.

Unbilled revenues are included within Receivables and Receivables of VIEs on the Consolidated Balance Sheets as shown in the following table.

(in millions)	December 31,	
	2018	2017
Duke Energy	\$ 896	\$ 944
Duke Energy Carolinas	313	342
Progress Energy	244	228
Duke Energy Progress	148	143
Duke Energy Florida	96	85
Duke Energy Ohio	2	4
Duke Energy Indiana	23	21
Piedmont	73	86

Additionally, Duke Energy Ohio and Duke Energy Indiana sell, on a revolving basis, nearly all of their retail accounts receivable, including receivables for unbilled revenues, to an affiliate, CRC and accounts for the transfers of receivables as sales. Accordingly, the receivables sold are not reflected on the Consolidated Balance Sheets of Duke Energy Ohio and Duke Energy Indiana. See Note 17 for further information. These receivables for unbilled revenues are shown in the table below.

(in millions)	December 31,	
	2018	2017
Duke Energy Ohio	\$ 86	\$ 104
Duke Energy Indiana	128	132

19. COMMON STOCK

Basic EPS is computed by dividing net income attributable to Duke Energy common stockholders, as adjusted for distributed and undistributed earnings allocated to participating securities, by the weighted average number of common shares outstanding during the period. Diluted EPS is computed by dividing net income attributable to Duke Energy common stockholders, as adjusted for distributed and undistributed earnings allocated to participating securities, by the diluted weighted average number of common shares outstanding during the period. Diluted EPS reflects the potential dilution that could occur if securities or other agreements to issue common shares, such as stock options and equity forward sale agreements, were exercised or settled. Duke Energy's participating securities are restricted stock units that are entitled to dividends declared on Duke Energy common stock during the restricted stock unit's vesting periods.

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SEP 13 2021

FINANCIAL STATEMENTS

COMMON STOCK

The following table presents Duke Energy's basic and diluted EPS calculations and reconciles the weighted average number of common stock outstanding to the diluted weighted average number of common stock outstanding.

(in millions, except per share amounts)	Years Ended December 31,		
	2018	2017	2016
Income from continuing operations attributable to Duke Energy common stockholders excluding impact of participating securities	\$ 2,642	\$ 3,059	\$ 2,567
Weighted average shares outstanding – basic	708	700	691
Weighted average shares outstanding – diluted	708	700	691
Earnings per share from continuing operations attributable to Duke Energy common stockholders			
Basic	\$ 3.73	\$ 4.37	\$ 3.71
Diluted	\$ 3.73	\$ 4.37	\$ 3.71
Potentially dilutive items excluded from the calculation ^(a)	2	2	2
Dividends declared per common share	\$ 3.64	\$ 3.49	\$ 3.36

(a) Performance stock awards were not included in the dilutive securities calculation because the performance measures related to the awards had not been met.

Equity Issuances

On February 20, 2018, Duke Energy filed a prospectus supplement and executed an EDA under which it may sell up to \$1 billion of its common stock through an ATM offering program, including an equity forward sales component. The EDA was entered into with Wells Fargo Securities, LLC, Citigroup Global Markets Inc., and J.P. Morgan Securities LLC (the Agents). Under the terms of the EDA, Duke Energy may issue and sell, through any of the Agents, shares of common stock during the period ending September 23, 2019. In June 2018, Duke Energy marketed two separate tranches, each for 1.3 million shares, of common stock. The first tranche was marketed with Wells Fargo Bank at an initial forward price of \$72.02 per share and the second tranche was marketed with Citibank at an initial forward price of \$78.71 per share through equity forward transactions under the ATM program. The Equity Forwards require Duke Energy to either physically settle the transactions by issuing 2.6 million shares in exchange for net proceeds at the then-applicable forward sale price specified by the agreements or net settle in whole or in part through the delivery or receipt of cash or shares. The settlement alternative was at Duke Energy's election. In December 2018, Duke Energy physically settled these equity forwards by delivering 2.6 million shares of common stock in exchange for net proceeds of approximately \$195 million.

Separately, in March 2018, Duke Energy marketed an equity offering of 21.3 million shares of common stock through an Underwriting Agreement with Credit Suisse Securities (USA) LLC, J.P. Morgan Securities LLC, Barclays Capital Inc. and Goldman Sachs & Co. LLC, as representatives of several underwriters, Credit Suisse Capital LLC and J.P. Morgan Securities LLC as Forward Sellers, and Credit Suisse Capital LLC and J.P. Morgan Chase Bank, National Association, acting as forward purchasers. In connection with the offering, Duke Energy entered into equity forward sale agreements with Credit Suisse Securities (USA) LLC as Agent for Credit Suisse Capital LLC and J.P. Morgan Chase Bank, National Association. The sale price was \$75 per share less certain net adjustments for an initial forward price of \$74.07 per share. The Equity Forwards require Duke Energy to either physically settle the transactions by issuing 21.3 million shares in exchange for net proceeds at the then-applicable forward sale price specified by the agreements, or net settle in whole or in part through the delivery or receipt of cash or shares. The settlement alternative was at Duke Energy's election. In June 2018, Duke Energy physically settled one-half of the equity forwards by delivering approximately 10.6 million shares of common stock in exchange for net cash proceeds of approximately \$781 million. In December 2018, Duke Energy physically settled the remaining equity forward by delivering 10.6 million shares of common stock in exchange for net cash proceeds of approximately \$766 million.

For the year ended December 31, 2018, Duke Energy issued 2.2 million shares through its DRIP with an increase in additional paid-in capital of approximately \$174 million.

In March 2016, Duke Energy marketed an equity offering of 10.6 million shares of common stock. In lieu of issuing equity at the time of the offering, Duke Energy entered into Equity Forwards with Barclays. The Equity Forwards required Duke Energy to either physically settle the transactions by issuing 10.6 million shares, or net settle in whole or in part through the delivery or receipt of cash or shares. On October 5, 2016, following the close of the Piedmont acquisition, Duke Energy physically settled the Equity Forwards in full by delivering 10.6 million shares of common stock in exchange for net cash proceeds of approximately \$723 million. The net proceeds were used to finance a portion of the Piedmont acquisition. As a result of the acquisition, all of Piedmont's issued and outstanding stock became the issued and outstanding shares of a wholly owned subsidiary of Duke Energy. See Note 2 for additional information related to the Piedmont acquisition.

20. SEVERANCE

During 2018, Duke Energy reviewed its operations and identified opportunities for improvement to better serve its customers. This operational review included the company's workforce strategy and staffing levels to ensure the company is staffed with the right skillsets and number of teammates to execute the long-term vision for Duke Energy. As such, Duke Energy extended voluntary and involuntary severance benefits to certain employees in specific areas as a part of workforce planning and digital transformation efforts.

During 2016, Duke Energy and Piedmont announced severance plans covering certain eligible employees whose employment will be involuntarily terminated without cause as a result of Duke Energy's acquisition of Piedmont. These reductions continued into 2017 and were a part of the synergies expected to be realized with the acquisition. Refer to Note 2 for additional information on the Piedmont acquisition.

FINANCIAL STATEMENTS

SEVERANCE

Severance benefit charges for initiatives and plans discussed above were accrued for a total of approximately 1,900 employees in 2018, 100 employees in 2017 and 600 employees in 2016. The following table presents the direct and allocated severance and related charges recorded by the Duke Energy Registrants. Amounts are included within Operation, maintenance and other on the Consolidated Statements of Operations.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont ^(a)
Year Ended December 31, 2018	\$ 187	\$ 102	\$ 69	\$ 52	\$ 17	\$ 6	\$ 7	\$ 2
Year Ended December 31, 2017	15	2	2	1	1	—	1	9
Year Ended December 31, 2016	118	39	40	23	17	3	7	

(a) Piedmont severance benefit charges were \$3 million for the two months ended December 31, 2016, and \$19 million for the year ended October 31, 2016.

The table below presents the severance liability for past and ongoing severance plans including the plans described above.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Balance at December 31, 2017	\$ 19	\$ 5	\$ 2	\$ 1	\$ —	\$ —	\$ —	\$ 5
Provision/Adjustments	200	98	50	40	10	2	2	—
Cash Reductions	(14)	(3)	(1)	—	(1)	—	—	(5)
Balance at December 31, 2018	\$ 205	\$ 100	\$ 51	\$ 41	\$ 9	\$ 2	\$ 2	\$ —

21. STOCK-BASED COMPENSATION

The 2015 Plan provides for the grant of stock-based compensation awards to employees and outside directors. The 2015 Plan reserves 10 million shares of common stock for issuance. Duke Energy has historically issued new shares upon exercising or vesting of share-based awards. However, Duke Energy may use a combination of new share issuances and open market repurchases for share-based awards that are exercised or vest in the future. Duke Energy has not determined with certainty the amount of such new share issuances or open market repurchases.

The following table summarizes the total expense recognized by the Duke Energy Registrants, net of tax, for stock-based compensation.

(in millions)	Years Ended December 31,		
	2018	2017	2016
Duke Energy	\$ 56	\$ 43	\$ 35
Duke Energy Carolinas	20	15	12
Progress Energy	21	16	12
Duke Energy Progress	13	10	7
Duke Energy Florida	8	6	5
Duke Energy Ohio	4	3	2
Duke Energy Indiana	5	4	3
Piedmont ^(a)	3	3	

(a) Piedmont's stock-based compensation costs were not material for the two months ended December 31, 2016. See discussion below for information on Piedmont's pre-merger stock-based compensation plans.

Duke Energy's pretax stock-based compensation costs, the tax benefit associated with stock-based compensation expense and stock-based compensation costs capitalized are included in the following table.

(in millions)	Years Ended December 31,		
	2018	2017	2016
Restricted stock unit awards	\$ 43	\$ 41	\$ 36
Performance awards	35	27	19
Pretax stock-based compensation cost	\$ 78	\$ 68	\$ 55
Stock-based compensation costs capitalized	5	4	2
Stock-based compensation expense	\$ 73	\$ 64	\$ 53
Tax benefit associated with stock-based compensation expense	\$ 17	\$ 25	\$ 20

FINANCIAL STATEMENTS

STOCK-BASED COMPENSATION

RESTRICTED STOCK UNIT AWARDS

RSU awards generally vest over periods from immediate to three years. Fair value amounts are based on the market price of Duke Energy's common stock on the grant date. The following table includes information related to RSU awards.

	Years Ended December 31,		
	2018	2017	2016
Shares awarded (in thousands)	649	583	684
Fair value (in millions)	\$ 49	\$ 47	\$ 52

The following table summarizes information about RSU awards outstanding.

	Shares (in thousands)	Weighted Average Grant Date Fair Value (per share)
Outstanding at December 31, 2017	1,121	\$ 78
Granted	649	76
Vested	(545)	78
Forfeited	(72)	77
Outstanding at December 31, 2018	1,153	77
Restricted stock unit awards expected to vest	1,101	77

The total grant date fair value of shares vested during the years ended December 31, 2018, 2017 and 2016, was \$43 million, \$42 million and \$38 million, respectively. At December 31, 2018, Duke Energy had \$29 million of unrecognized compensation cost, which is expected to be recognized over a weighted average period of 23 months.

PERFORMANCE AWARDS

Stock-based performance awards generally vest after three years if performance targets are met. The actual number of shares issued will range from zero to 200 percent of target shares, depending on the level of performance achieved.

Performance awards contain market conditions based on relative TSR compared to a predefined peer group, as well as a performance condition based on Duke Energy's cumulative adjusted EPS. Performance awards granted in 2018 and 2017 also contain a performance condition based on the total incident case rate, one of our key employee safety metrics.

The market condition component of Duke Energy's performance awards is valued using a path-dependent model that incorporates expected relative TSR into the fair value determination of Duke Energy's performance-based share awards. The model uses three-year historical volatilities and correlations for all companies in the predefined peer group, including Duke Energy, to simulate Duke Energy's relative TSR as of the end of the performance period. For each simulation, Duke Energy's relative TSR associated with the simulated stock price at the end of the performance period plus expected dividends within the period results in a value per share for the award portfolio. The average of these simulations is the expected portfolio value per share. Actual life to date results of Duke Energy's relative TSR for each grant are incorporated within the model. For performance awards granted in 2018, the model used a risk-free interest rate of 2.4 percent, which reflects the yield on three-year Treasury bonds as of the grant date, and an expected volatility of 16.0 percent based on Duke Energy's historical volatility over three years using daily stock prices.

The following table includes information related to stock-based performance awards.

	Years Ended December 31,		
	2018	2017	2016
Shares granted assuming target performance (in thousands)	372	461	338
Fair value (in millions)	\$ 27	\$ 37	\$ 25

FINANCIAL STATEMENTS

STOCK-BASED COMPENSATION

The following table summarizes information about stock-based performance awards outstanding and assumes payout at the target level.

	Shares (in thousands)	Weighted Average Grant Date Fair Value (per share)
Outstanding at December 31, 2017	1,065	\$ 79
Granted	372	73
Vested	(155)	81
Forfeited	(165)	80
Outstanding at December 31, 2018	1,117	77
Stock-based performance awards expected to vest	1,086	77

The total grant date fair value of shares vested during the years ended December 31, 2018, and 2016, was \$13 million and \$25 million, respectively. No performance awards vested during the year ended December 31, 2017. At December 31, 2018, Duke Energy had \$30 million of unrecognized compensation cost, which is expected to be recognized over a weighted average period of 21 months.

PIEDMONT

Prior to Duke Energy's acquisition of Piedmont, Piedmont had an incentive compensation plan that had a series of three-year performance and RSU awards for eligible officers and other participants. The Merger Agreement provided for the conversion of the 2014-2016 and 2015-2017 performance awards and the nonvested 2016 RSU award into the right to receive \$60 cash per share upon the close of the transaction. In December 2015, Piedmont's board of directors authorized the accelerated vesting, payment and taxation of the 2014-2016 and 2015-2017 performance awards, as well as the 2016 RSU award, at the election of the participant. Substantially all participants elected to accelerate the settlement of these awards. As a result of the settlement of these awards, 194 thousand shares of Piedmont shares were issued to participants, net of shares withheld for applicable federal and state income taxes, at a closing price of \$56.85 and a fair value of \$11 million. The 2016-2018 performance award cycle was approved subsequent to the Merger Agreement and was converted into a Duke Energy RSU award at the consummation of the acquisition.

Piedmont's stock-based compensation costs and the tax benefit associated with stock-based compensation expense are included in the following table.

(in millions)	Year Ended October 31, 2016
Pretax stock-based compensation cost	\$ 16
Tax benefit associated with stock-based compensation expense	6
Net of tax stock-based compensation cost	\$ 10

22. EMPLOYEE BENEFIT PLANS

DEFINED BENEFIT RETIREMENT PLANS

Duke Energy and certain subsidiaries maintain, and the Subsidiary Registrants participate in, qualified, non-contributory defined benefit retirement plans. The Duke Energy plans cover most employees using a cash balance formula. Under a cash balance formula, a plan participant accumulates a retirement benefit consisting of pay credits based upon a percentage of current eligible earnings, age or age and years of service and interest credits. Certain employees are eligible for benefits that use a final average earnings formula. Under these final average earnings formulas, a plan participant accumulates a retirement benefit equal to the sum of percentages of their (i) highest three-year, four-year, or five-year average earnings, (ii) highest three-year, four-year, or five-year average earnings in excess of covered compensation per year of participation (maximum of 35 years) or (iii) highest three-year average earnings times years of participation in excess of 35 years. Duke Energy also maintains, and the Subsidiary Registrants participate in, non-qualified, non-contributory defined benefit retirement plans that cover certain executives. The qualified and non-qualified, non-contributory defined benefit plans are closed to new participants.

Duke Energy approved plan amendments to restructure its qualified non-contributory defined benefit retirement plans, effective January 1, 2018. The restructuring involved (i) the spin-off of the majority of inactive participants from two plans into a separate inactive plan and (ii) the merger of the active participant portions of such plans, along with a pension plan acquired as part of the Piedmont transaction, into a single active plan. Benefits offered to the plan participants remain unchanged except that the Piedmont plan's final average earnings formula was frozen as of December 31, 2017, and affected participants were moved into the active plan's cash balance formula. Actuarial gains and losses associated with the Inactive Plan will be amortized over the remaining life expectancy of the inactive participants. The longer amortization period lowered Duke Energy's 2018 pretax qualified pension plan expense by approximately \$33 million.

Duke Energy uses a December 31 measurement date for its defined benefit retirement plan assets and obligations.

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Net periodic benefit costs disclosed in the tables below represent the cost of the respective benefit plan for the periods presented prior to capitalization of amounts reflected as Net property, plant and equipment, on the Consolidated Balance Sheets. Only the service cost component of net periodic benefit costs is eligible to be capitalized. The remaining non-capitalized portions of net periodic benefit costs are classified as either: (1) service cost, which is recorded in Operations, maintenance and other on the Consolidated Statements of Operations; or as (2) components of non-service cost, which is recorded in Other income and expenses, net, on the Consolidated Statements of Operations. Amounts presented in the tables below for the Subsidiary Registrants represent the amounts of pension and other post-retirement benefit cost allocated by Duke Energy for employees of the Subsidiary Registrants. Additionally, the Consolidated Statements of Operations of the Subsidiary Registrants also include allocated net periodic benefit costs for their proportionate share of pension and post-retirement benefit cost for employees of Duke Energy's shared services affiliate that provide support to the Subsidiary Registrants. However, in the tables below, these amounts are only presented within the Duke Energy column. These allocated amounts are included in the governance and shared service costs discussed in Note 13.

Duke Energy's policy is to fund amounts on an actuarial basis to provide assets sufficient to meet benefit payments to be paid to plan participants. Duke Energy does not anticipate making any contributions in 2019. The following table includes information related to the Duke Energy Registrants' contributions to its qualified defined benefit pension plans.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont ^(a)
Contributions Made:								
2018	\$ 141	\$ 46	\$ 45	\$ 25	\$ 20	\$ —	\$ 8	\$ —
2017	19	—	—	—	—	4	—	11
2016	155	43	43	24	20	5	9	

- (a) Piedmont contributed \$10 million to its U.S. qualified defined benefit pension plan during the two months ended December 31, 2016, and \$10 million for the year ended October 31, 2016.

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SEP 13 2021

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

QUALIFIED PENSION PLANS

Components of Net Periodic Pension Costs

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 182	\$ 58	\$ 51	\$ 29	\$ 22	\$ 5	\$ 11	\$ 7
Interest cost on projected benefit obligation	299	72	94	43	50	17	23	11
Expected return on plan assets	(559)	(147)	(178)	(85)	(91)	(28)	(42)	(22)
Amortization of actuarial loss	132	29	44	21	23	5	10	11
Amortization of prior service credit	(32)	(8)	(3)	(2)	(1)	—	(2)	(10)
Net periodic pension costs ^{(a)(b)}	\$ 22	\$ 4	\$ 8	\$ 6	\$ 3	\$ (1)	\$ —	\$ (3)

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 159	\$ 48	\$ 45	\$ 26	\$ 19	\$ 4	\$ 9	\$ 10
Interest cost on projected benefit obligation	328	79	100	47	53	18	26	14
Expected return on plan assets	(545)	(142)	(167)	(82)	(85)	(27)	(42)	(24)
Amortization of actuarial loss	146	31	52	23	29	5	12	11
Amortization of prior service credit	(24)	(8)	(3)	(2)	(1)	(1)	(2)	(2)
Settlement charge	12	—	—	—	—	—	—	12
Other	8	2	2	1	1	—	1	1
Net periodic pension costs ^{(a)(b)}	\$ 84	\$ 10	\$ 29	\$ 13	\$ 16	\$ (1)	\$ 4	\$ 22

(in millions)	Year Ended December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 147	\$ 48	\$ 42	\$ 24	\$ 19	\$ 4	\$ 9	\$ 9
Interest cost on projected benefit obligation	335	86	106	49	55	19	28	28
Expected return on plan assets	(519)	(142)	(168)	(82)	(84)	(27)	(42)	(42)
Amortization of actuarial loss	134	33	51	23	29	4	11	11
Amortization of prior service credit	(17)	(8)	(3)	(2)	(1)	—	(1)	(1)
Settlement charge	3	—	—	—	—	—	—	—
Other	8	2	3	1	1	1	1	1
Net periodic pension costs ^{(a)(b)}	\$ 91	\$ 19	\$ 31	\$ 13	\$ 19	\$ 1	\$ 6	\$ 6

- (a) Duke Energy amounts exclude \$5 million, \$7 million and \$8 million for the years ended December 2018, 2017 and 2016, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.
- (b) Duke Energy Ohio amounts exclude \$2 million, \$3 million and \$4 million for the years ended December 2018, 2017 and 2016, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

(in millions)	Piedmont	
	Two Months Ended	Year Ended
	December 31, 2016	October 31, 2016
Service cost	\$ 2	\$ 11
Interest cost on projected benefit obligation	2	9
Expected return on plan assets	(4)	(24)
Amortization of actuarial loss	2	8
Amortization of prior service credit	(1)	(2)
Settlement charge	3	—
Net periodic pension costs	\$ 4	\$ 2

Amounts Recognized in Accumulated Other Comprehensive Income and Regulatory Assets

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
	Energy	Carolin	Energy	Progress	Florida	Ohio	Indiana	Piedmont
Regulatory assets, net increase (decrease)	\$ 298	\$ 170	\$ 40	\$ 31	\$ 9	\$ 10	\$ 30	\$ 8
Accumulated other comprehensive loss (income)								
Deferred income tax expense	\$ (2)	—	1	—	—	—	—	—
Amortization of prior year service credit	1	—	—	—	—	—	—	—
Amortization of prior year actuarial losses	10	—	(4)	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ 9	\$ —	\$ (3)	\$ —	\$ —	\$ —	\$ —	\$ —

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
	Energy	Carolin	Energy	Progress	Florida	Ohio	Indiana	Piedmont
Regulatory assets, net (decrease) increase	\$ (212)	\$ (70)	\$ (49)	\$ (37)	\$ (11)	\$ 9	\$ (19)	\$ (64)
Accumulated other comprehensive (income) loss								
Deferred income tax expense	\$ —	\$ —	\$ 3	\$ —	\$ —	\$ —	\$ —	\$ —
Prior year service credit arising during the year	1	—	—	—	—	—	—	—
Amortization of prior year actuarial losses	(7)	—	(7)	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ (6)	\$ —	\$ (4)	\$ —	\$ —	\$ —	\$ —	\$ —

Piedmont's regulatory asset net increase was \$34 million and \$35 million for the two months ended December 31, 2016, and for the year ended October 31, 2016, respectively.

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Reconciliation of Funded Status to Net Amount Recognized

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Obligation at prior measurement date	\$ 8,448	\$ 2,029	\$ 2,637	\$ 1,211	\$ 1,410	\$ 479	\$ 669	\$ 313
Service cost	174	56	49	28	21	5	10	7
Interest cost	299	72	94	43	50	17	23	11
Actuarial gain	(485)	(44)	(204)	(87)	(114)	(29)	(29)	(18)
Transfers	—	—	—	—	—	—	—	(16)
Benefits paid	(567)	(159)	(143)	(70)	(72)	(37)	(55)	(33)
Obligation at measurement date	\$ 7,869	\$ 1,954	\$ 2,433	\$ 1,125	\$ 1,295	\$ 435	\$ 618	\$ 264
Accumulated Benefit Obligation at measurement date	\$ 7,818	\$ 1,954	\$ 2,404	\$ 1,125	\$ 1,265	\$ 425	\$ 614	\$ 264
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 9,003	\$ 2,372	\$ 2,814	\$ 1,366	\$ 1,429	\$ 458	\$ 684	\$ 368
Employer contributions	141	46	45	25	20	—	8	—
Actual return on plan assets	(344)	(91)	(110)	(53)	(55)	(16)	(26)	(14)
Benefits paid	(567)	(159)	(143)	(70)	(72)	(37)	(55)	(33)
Transfers	—	—	—	—	—	—	—	(16)
Plan assets at measurement date	\$ 8,233	\$ 2,168	\$ 2,606	\$ 1,268	\$ 1,322	\$ 405	\$ 611	\$ 305
Funded status of plan	\$ 364	\$ 214	\$ 173	\$ 143	\$ 27	\$ (30)	\$ (7)	\$ 41

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Obligation at prior measurement date	\$ 8,131	\$ 1,952	\$ 2,512	\$ 1,158	\$ 1,323	\$ 447	\$ 658	\$ 344
Service cost	159	48	45	26	19	4	9	10
Interest cost	328	79	100	47	53	18	26	14
Actuarial loss	455	68	158	57	99	35	26	38
Transfers	—	27	(32)	(2)	(15)	12	—	—
Plan amendments	(61)	—	—	—	—	—	—	(61)
Benefits paid	(537)	(145)	(146)	(75)	(69)	(37)	(50)	(5)
Benefits paid — settlements	(27)	—	—	—	—	—	—	(27)
Obligation at measurement date	\$ 8,448	\$ 2,029	\$ 2,637	\$ 1,211	\$ 1,410	\$ 479	\$ 669	\$ 313
Accumulated Benefit Obligation at measurement date	\$ 8,369	\$ 2,029	\$ 2,601	\$ 1,211	\$ 1,375	\$ 468	\$ 652	\$ 313
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 8,531	\$ 2,225	\$ 2,675	\$ 1,290	\$ 1,352	\$ 428	\$ 657	\$ 346
Employer contributions	19	—	—	—	—	4	—	11
Actual return on plan assets	1,017	265	317	153	161	51	77	43
Benefits paid	(537)	(145)	(146)	(75)	(69)	(37)	(50)	(5)
Benefits paid — settlements	(27)	—	—	—	—	—	—	(27)
Transfers	—	27	(32)	(2)	(15)	12	—	—
Plan assets at measurement date	\$ 9,003	\$ 2,372	\$ 2,814	\$ 1,366	\$ 1,429	\$ 458	\$ 684	\$ 368
Funded status of plan	\$ 555	\$ 343	\$ 177	\$ 155	\$ 19	\$ (21)	\$ 15	\$ 55

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Amounts Recognized in the Consolidated Balance Sheets

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Prefunded pension ^(a)	\$ 433	\$ 214	\$ 242	\$ 143	\$ 96	\$ 24	\$ 39	\$ 41
Noncurrent pension liability ^(b)	\$ 69	\$ —	\$ 69	\$ —	\$ 69	\$ 54	\$ 46	\$ —
Net asset (liability) recognized	\$ 364	\$ 214	\$ 173	\$ 143	\$ 27	\$ (30)	\$ (7)	\$ 41
Regulatory assets	\$ 2,184	\$ 576	\$ 796	\$ 372	\$ 424	\$ 100	\$ 182	\$ 81
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (43)	\$ —	\$ (2)	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(4)	—	—	—	—	—	—	—
Net actuarial loss	126	—	5	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 79	\$ —	\$ 3	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension costs in the next year								
Unrecognized net actuarial loss	\$ 97	\$ 22	\$ 37	\$ 13	\$ 24	\$ 3	\$ 5	\$ 7
Unrecognized prior service credit	(32)	(8)	(3)	(2)	(1)	—	(2)	(9)

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Prefunded pension ^(a)	\$ 680	\$ 343	\$ 245	\$ 155	\$ 87	\$ 8	\$ 16	\$ 55
Noncurrent pension liability ^(b)	\$ 125	\$ —	\$ 68	\$ —	\$ 68	\$ 29	\$ 1	\$ —
Net asset recognized	\$ 555	\$ 343	\$ 177	\$ 155	\$ 19	\$ (21)	\$ 15	\$ 55
Regulatory assets	\$ 1,886	\$ 406	\$ 756	\$ 341	\$ 415	\$ 90	\$ 152	\$ 73
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (41)	\$ —	\$ (3)	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(5)	—	—	—	—	—	—	—
Net actuarial loss	116	—	9	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 70	\$ —	\$ 6	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension costs in the next year								
Unrecognized net actuarial loss	\$ 132	\$ 29	\$ 44	\$ 21	\$ 23	\$ 5	\$ 7	\$ 11
Unrecognized prior service credit	\$ (32)	\$ (8)	\$ (3)	\$ (2)	\$ (1)	\$ —	\$ (2)	\$ (9)

(a) Included in Other within Other Noncurrent Assets on the Consolidated Balance Sheets.

(b) Included in Accrued pension and other post-retirement benefit costs on the Consolidated Balance Sheets.

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FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Information for Plans with Accumulated Benefit Obligation in Excess of Plan Assets

(in millions)	December 31, 2018				
	Duke Energy	Progress Energy	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Projected benefit obligation	\$ 679	\$ 679	\$ 679	\$ 123	\$ 203
Accumulated benefit obligation	651	651	651	115	199
Fair value of plan assets	610	610	610	69	159

(in millions)	December 31, 2017			
	Duke Energy	Progress Energy	Duke Energy Florida	Duke Energy Ohio
Projected benefit obligation	\$ 1,386	\$ 718	\$ 718	\$ 337
Accumulated benefit obligation	1,326	683	683	326
Fair value of plan assets	1,260	650	650	308

Assumptions Used for Pension Benefits Accounting

The discount rate used to determine the current year pension obligation and following year's pension expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

The average remaining service period for participants in active plans and life expectancy of participants in inactive plans is 13 years for Duke Energy and Duke Energy Progress, 12 years for Duke Energy Carolinas, Progress Energy, and Duke Energy Florida, 14 years for Duke Energy Ohio and Duke Energy Indiana, and 10 years for Piedmont.

The following tables present the assumptions or range of assumptions used for pension benefit accounting.

	December 31,		
	2018	2017	2016
Benefit Obligations			
Discount rate	4.30%	3.60%	4.10%
Salary increase	3.50% – 4.00%	3.50% – 4.00%	4.00% – 4.50%
Net Periodic Benefit Cost			
Discount rate	3.60%	4.10%	4.40%
Salary increase	3.50% – 4.00%	4.00% – 4.50%	4.00% – 4.40%
Expected long-term rate of return on plan assets	6.50%	6.50% – 6.75%	6.50% – 6.75%

	Piedmont	
	Two Months Ended	Year Ended
	December 31, 2016	October 31, 2016
Benefit Obligations		
Discount rate	4.10%	3.80%
Salary increase	4.50%	4.05%
Net Periodic Benefit Cost		
Discount rate	3.80%	4.34%
Salary increase	4.05%	4.07%
Expected long-term rate of return on plan assets	6.75%	7.25%

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Expected Benefit Payments

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Years ending December 31,								
2019	\$ 662	\$ 210	\$ 179	\$ 105	\$ 73	\$ 33	\$ 47	\$ 20
2020	651	177	171	90	80	37	51	24
2021	663	182	177	95	81	37	51	23
2022	662	189	179	94	84	37	49	22
2023	655	185	181	95	85	35	47	22
2024-2028	2,993	794	902	451	447	158	217	96

NON-QUALIFIED PENSION PLANS

Components of Net Periodic Pension Costs

(in millions)	Year Ended December 31, 2018				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Service cost	\$ 2	\$ 1	\$ —	\$ —	\$ —
Interest cost on projected benefit obligation	12	—	4	1	2
Amortization of actuarial loss	8	—	2	1	1
Amortization of prior service credit	(2)	—	—	—	—
Net periodic pension costs	\$ 20	\$ 1	\$ 6	\$ 2	\$ 3

(in millions)	Year Ended December 31, 2017				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Service cost	\$ 2	\$ 1	\$ —	\$ —	\$ —
Interest cost on projected benefit obligation	13	1	5	1	2
Amortization of actuarial loss	8	—	2	1	1
Amortization of prior service credit	(2)	—	—	—	—
Net periodic pension costs	\$ 21	\$ 2	\$ 7	\$ 2	\$ 3

(in millions)	Year Ended December 31, 2016				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Service cost	\$ 2	\$ —	\$ —	\$ —	\$ —
Interest cost on projected benefit obligation	14	1	5	1	2
Amortization of actuarial loss	8	1	1	1	1
Amortization of prior service credit	(1)	—	—	—	—
Net periodic pension costs	\$ 23	\$ 2	\$ 6	\$ 2	\$ 3

(in millions)	Piedmont	
	Year Ended	
	October 31, 2016	
Amortization of prior service cost	\$	—
Settlement charge		1
Net periodic pension costs	\$	1

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Amounts Recognized in Accumulated Other Comprehensive Income and Regulatory Assets and Liabilities

(in millions)	Year Ended December 31, 2018				
	Duke		Duke		Duke
	Duke Energy	Energy Carolinas	Progress Energy	Energy Progress	Energy Florida
Regulatory assets, net (decrease) increase	\$ (16)	\$ 1	\$ (6)	\$ (3)	\$ (3)
Accumulated other comprehensive (income) loss					
Deferred income tax benefit	\$ 1	\$ —	\$ 1	\$ —	\$ —
Actuarial gain arising during the year	(4)	—	(3)	—	—
Net amount recognized in accumulated other comprehensive loss (income)	\$ (3)	\$ —	\$ (2)	\$ —	\$ —

(in millions)	Year Ended December 31, 2017				
	Duke		Duke		Duke
	Duke Energy	Energy Carolinas	Progress Energy	Energy Progress	Energy Florida
Regulatory assets, net increase (decrease)	\$ 5	\$ (1)	\$ 3	\$ 1	\$ 2
Accumulated other comprehensive (income) loss					
Prior service credit arising during the year	\$ (1)	\$ —	\$ —	\$ —	\$ —
Actuarial loss arising during the year	2	—	—	—	—
Net amount recognized in accumulated other comprehensive loss (income)	\$ 1	\$ —	\$ —	\$ —	\$ —

Reconciliation of Funded Status to Net Amount Recognized

(in millions)	Year Ended December 31, 2018							
	Duke		Duke		Duke		Duke	
	Duke Energy	Energy Carolinas	Progress Energy	Energy Progress	Energy Florida	Energy Ohio	Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Obligation at prior measurement date	\$ 331	\$ 14	\$ 116	\$ 35	\$ 47	\$ 4	\$ 3	\$ 4
Service cost	2	1	—	—	—	—	—	—
Interest cost	12	—	4	1	2	—	—	—
Actuarial gain	(17)	—	(6)	(2)	(3)	(1)	—	(1)
Benefits paid	(24)	(1)	(8)	(3)	(3)	—	—	—
Obligation at measurement date	\$ 304	\$ 14	\$ 106	\$ 31	\$ 43	\$ 3	\$ 3	\$ 3
Accumulated Benefit Obligation at measurement date	\$ 304	\$ 14	\$ 106	\$ 31	\$ 43	\$ 3	\$ 3	\$ 3
Change in Fair Value of Plan Assets								
Benefits paid	\$ (24)	\$ (1)	\$ (8)	\$ (3)	\$ (3)	\$ —	\$ —	\$ —
Employer contributions	24	1	8	3	3	—	—	—
Plan assets at measurement date	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

(in millions)	Year Ended December 31, 2017								
	Duke			Duke		Duke	Duke	Duke	
	Duke Energy	Carolinas	Progress Energy	Energy	Progress	Energy Florida	Energy Ohio	Energy Indiana	Piedmont
Change in Projected Benefit Obligation									
Obligation at prior measurement date	\$ 332	\$ 14	\$ 114	\$ 33	\$ 46	\$ 4	\$ 3	\$ 4	
Service cost	2	1	—	—	—	—	—	—	
Interest cost	13	1	5	1	2	—	—	—	
Actuarial loss (gain)	15	—	5	4	2	—	—	—	
Benefits paid	(31)	(2)	(8)	(3)	(3)	—	—	—	
Obligation at measurement date	\$ 331	\$ 14	\$ 116	\$ 35	\$ 47	\$ 4	\$ 3	\$ 4	
Accumulated Benefit Obligation at measurement date	\$ 331	\$ 14	\$ 116	\$ 35	\$ 47	\$ 4	\$ 3	\$ 4	
Change in Fair Value of Plan Assets									
Benefits paid	\$ (31)	\$ (2)	\$ (8)	\$ (3)	\$ (3)	\$ —	\$ —	\$ —	
Employer contributions	31	2	8	3	3	—	—	—	
Plan assets at measurement date	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	

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FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Amounts Recognized in the Consolidated Balance Sheets

(in millions)	December 31, 2018							
	Duke Energy		Duke Progress		Duke Energy		Duke Energy	
	Energy	Carolinas	Energy	Progress	Florida	Ohio	Indiana	Piedmont
Current pension liability ^(a)	\$ 21	\$ 2	\$ 8	\$ 3	\$ 3	\$ —	\$ —	\$ —
Noncurrent pension liability ^(b)	283	12	98	28	40	3	3	3
Total accrued pension liability	\$ 304	\$ 14	\$ 106	\$ 31	\$ 43	\$ 3	\$ 3	\$ 3
Regulatory assets	\$ 62	\$ 5	\$ 15	\$ 5	\$ 10	\$ 1	\$ —	\$ 1
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (3)	\$ —	\$ (2)	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(1)	—	—	—	—	—	—	—
Net actuarial loss	8	—	6	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 4	\$ —	\$ 4	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year								
Unrecognized net actuarial loss	\$ 6	\$ —	\$ 2	\$ 1	\$ 1	\$ —	\$ —	\$ —
Unrecognized prior service credit	(2)	—	—	—	—	—	—	—

(in millions)	December 31, 2017							
	Duke Energy		Duke Progress		Duke Energy		Duke Energy	
	Energy	Carolinas	Energy	Progress	Florida	Ohio	Indiana	Piedmont
Current pension liability ^(a)	\$ 23	\$ 2	\$ 8	\$ 3	\$ 3	\$ —	\$ —	\$ —
Noncurrent pension liability ^(b)	308	12	108	32	44	4	3	4
Total accrued pension liability	\$ 331	\$ 14	\$ 116	\$ 35	\$ 47	\$ 4	\$ 3	\$ 4
Regulatory assets	\$ 78	\$ 4	\$ 21	\$ 8	\$ 13	\$ 1	\$ —	\$ 1
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (4)	\$ —	\$ (3)	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(1)	—	—	—	—	—	—	—
Net actuarial loss	12	—	9	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 7	\$ —	\$ 6	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year								
Unrecognized net actuarial loss	\$ 8	\$ —	\$ 2	\$ 1	\$ 1	\$ —	\$ —	\$ —
Unrecognized prior service credit	\$ (2)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

- (a) Included in Other within Current Liabilities on the Consolidated Balance Sheets.
(b) Included in Accrued pension and other post-retirement benefit costs on the Consolidated Balance Sheets.

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Information for Plans with Accumulated Benefit Obligation in Excess of Plan Assets

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
	Energy	Carolin	Energy	Progress	Florida	Ohio	Indiana	Piedmont
Projected benefit obligation	\$ 304	\$ 14	\$ 106	\$ 31	\$ 43	\$ 3	\$ 3	\$ 3
Accumulated benefit obligation	304	14	106	31	43	3	3	3

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
	Energy	Carolin	Energy	Progress	Florida	Ohio	Indiana	Piedmont
Projected benefit obligation	\$ 331	\$ 14	\$ 116	\$ 35	\$ 47	\$ 4	\$ 3	\$ 4
Accumulated benefit obligation	331	14	116	35	47	4	3	4

Assumptions Used for Pension Benefits Accounting

The discount rate used to determine the current year pension obligation and following year's pension expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

The average remaining service period of active covered employees is 10 years for Duke Energy, 13 years for Progress Energy, 11 years for Duke Energy Progress, 15 years for Duke Energy Florida, eight years for Duke Energy Carolinas, Duke Energy Ohio, Duke Energy Indiana and Piedmont. The following tables present the assumptions used for pension benefit accounting.

	December 31,		
	2018	2017	2016
Benefit Obligations			
Discount rate	4.30%	3.60%	4.10%
Salary increase	3.50% – 4.00%	3.50% – 4.00%	4.40%
Net Periodic Benefit Cost			
Discount rate	3.60%	4.10%	4.40%
Salary increase	3.50% – 4.00%	4.40%	4.40%

	Piedmont	
	Two Months Ended	Year Ended
	December 31, 2016	October 31, 2016
Benefit Obligations		
Discount rate	4.10%	3.80%
Net Periodic Benefit Cost		
Discount rate	3.80%	3.85%

Expected Benefit Payments

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
	Energy	Carolin	Energy	Progress	Florida	Ohio	Indiana	Piedmont
Years ending December 31,								
2019	\$ 22	\$ 2	\$ 8	\$ 3	\$ 3	\$ —	\$ —	\$ —
2020	21	1	8	2	3	—	—	—
2021	23	1	8	2	3	—	—	—
2022	25	1	8	2	3	—	—	—
2023	25	3	7	2	3	—	—	—
2024-2028	125	10	37	11	15	1	1	2

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

OTHER POST-RETIREMENT BENEFIT PLANS

Duke Energy provides, and the Subsidiary Registrants participate in, some health care and life insurance benefits for retired employees on a contributory and non-contributory basis. Employees are eligible for these benefits if they have met age and service requirements at retirement, as defined in the plans. The health care benefits include medical, dental and prescription drug coverage and are subject to certain limitations, such as deductibles and copayments.

Duke Energy did not make any pre-funding contributions to its other post-retirement benefit plans during the years ended December 31, 2018, 2017 or 2016.

Components of Net Periodic Other Post-Retirement Benefit Costs

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 6	\$ 1	\$ 1	\$ —	\$ 1	\$ 1	\$ 1	\$ 1
Interest cost on accumulated post-retirement benefit obligation	28	7	12	6	6	1	3	1
Expected return on plan assets	(13)	(8)	—	—	—	—	—	(2)
Amortization of actuarial loss	6	3	1	1	—	—	4	—
Amortization of prior service credit	(19)	(5)	(8)	(1)	(7)	(1)	(1)	(2)
Net periodic post-retirement benefit costs ^{(a)(b)}	\$ 8	\$ (2)	\$ 6	\$ 6	\$ —	\$ 1	\$ 7	\$ (2)

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 4	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 1
Interest cost on accumulated post-retirement benefit obligation	34	8	13	7	6	1	3	1
Expected return on plan assets	(14)	(8)	—	—	—	—	(1)	(2)
Amortization of actuarial loss (gain)	10	(2)	21	12	9	(2)	(1)	1
Amortization of prior service credit	(115)	(10)	(84)	(54)	(30)	—	(1)	—
Curtailment credit ^(c)	(30)	(4)	(16)	—	(16)	(2)	(2)	—
Net periodic post-retirement benefit costs ^{(a)(b)}	\$ (111)	\$ (15)	\$ (66)	\$ (35)	\$ (31)	\$ (3)	\$ (2)	\$ 1

(in millions)	Year Ended December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Duke Energy
Service cost	\$ 3	\$ 1	\$ 1	\$ —	\$ 1	\$ —	\$ —	\$ —
Interest cost on accumulated post-retirement benefit obligation	35	8	15	8	7	1	4	
Expected return on plan assets	(12)	(8)	—	—	—	—	(1)	(1)
Amortization of actuarial loss (gain)	6	(3)	22	13	9	(2)	(1)	
Amortization of prior service credit	(141)	(14)	(103)	(68)	(35)	—	(1)	
Net periodic post-retirement benefit costs ^{(a)(b)}	\$ (109)	\$ (16)	\$ (65)	\$ (47)	\$ (18)	\$ (1)	\$ 1	

- (a) Duke Energy amounts exclude \$7 million, \$7 million and \$8 million for the years ended December 2018, 2017 and 2016, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.
- (b) Duke Energy Ohio amounts exclude \$2 million, \$2 million and \$2 million for the years ended December 2018, 2017 and 2016, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.
- (c) Curtailment credit resulted from a reduction in average future service of plan participants due to a plan amendment.

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

	Piedmont
	Year Ended
(in millions)	October 31, 2016
Service cost	\$ 1
Interest cost on projected benefit obligation	1
Expected return on plan assets	(2)
Amortization of actuarial loss	1
Net periodic pension costs	\$ 1

Amounts Recognized in Accumulated Other Comprehensive Income and Regulatory Assets and Liabilities

	Year Ended December 31, 2018							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net increase (decrease)	\$ 137	\$ —	\$ 133	\$ 84	\$ 49	\$ —	\$ (5)	\$ 4
Regulatory liabilities, net increase (decrease)	\$ 154	\$ (6)	\$ 149	\$ 93	\$ 56	\$ 2	\$ 3	\$ —
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (1)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amortization of prior year actuarial gain	1	—	—	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

	Year Ended December 31, 2017							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net increase (decrease)	\$ 71	\$ —	\$ 81	\$ 42	\$ 39	\$ —	\$ (5)	\$ (11)
Regulatory liabilities, net increase (decrease)	\$ (27)	\$ (2)	\$ —	\$ —	\$ —	\$ (3)	\$ (7)	\$ —
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (1)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amortization of prior year prior service credit	3	—	—	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ 2	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

Piedmont's regulatory assets net decreased \$1 million for the two months ended December 31, 2016, and increased \$2 million for the year ended October 31, 2016.

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Reconciliation of Funded Status to Accrued Other Post-Retirement Benefit Costs

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Accumulated post-retirement benefit obligation at prior measurement date	\$ 813	\$ 189	\$ 342	\$ 184	\$ 156	\$ 30	\$ 78	\$ 32
Service cost	6	1	1	—	1	1	1	1
Interest cost	28	7	12	6	6	1	3	1
Plan participants' contributions	18	3	6	4	3	1	2	—
Actuarial gains	(51)	(8)	(23)	(9)	(13)	(2)	(5)	(1)
Transfers	—	—	—	—	—	—	—	(1)
Benefits paid	(86)	(18)	(35)	(19)	(16)	(2)	(12)	(2)
Accumulated post-retirement benefit obligation at measurement date	\$ 728	\$ 174	\$ 303	\$ 166	\$ 137	\$ 29	\$ 67	\$ 30
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 225	\$ 133	\$ —	\$ —	\$ —	\$ 7	\$ 11	\$ 31
Actual return on plan assets	(8)	(5)	—	—	—	—	—	(1)
Benefits paid	(86)	(18)	(35)	(19)	(16)	(2)	(12)	(2)
Employer contributions	46	2	29	15	13	2	4	1
Plan participants' contributions	18	3	6	4	3	1	2	—
Plan assets at measurement date	\$ 195	\$ 115	\$ —	\$ —	\$ —	\$ 8	\$ 5	\$ 29
Funded status of plan	\$ (533)	\$ (59)	\$ (303)	\$ (166)	\$ (137)	\$ (21)	\$ (62)	\$ (1)

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Accumulated post-retirement benefit obligation at prior measurement date	\$ 868	\$ 201	\$ 357	\$ 191	\$ 164	\$ 32	\$ 83	\$ 39
Service cost	4	1	—	—	—	—	—	1
Interest cost	34	8	13	7	6	1	3	1
Plan participants' contributions	17	3	6	3	3	1	2	—
Actuarial losses (gains)	4	(3)	4	1	3	—	3	1
Transfers	—	2	(1)	—	(1)	1	—	—
Plan amendments	(28)	(5)	(3)	(1)	(2)	(2)	(2)	(9)
Benefits paid	(86)	(18)	(34)	(17)	(17)	(3)	(11)	(1)
Accumulated post-retirement benefit obligation at measurement date	\$ 813	\$ 189	\$ 342	\$ 184	\$ 156	\$ 30	\$ 78	\$ 32
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 244	\$ 137	\$ 1	\$ —	\$ —	\$ 7	\$ 22	\$ 29
Actual return on plan assets	25	15	1	—	—	2	1	3
Benefits paid	(86)	(18)	(34)	(17)	(17)	(3)	(11)	(1)
Employer contributions (reimbursements)	25	(4)	26	14	14	—	(3)	—
Plan participants' contributions	17	3	6	3	3	1	2	—
Plan assets at measurement date	\$ 225	\$ 133	\$ —	\$ —	\$ —	\$ 7	\$ 11	\$ 31
Funded status of plan	\$ (588)	\$ (56)	\$ (342)	\$ (184)	\$ (156)	\$ (23)	\$ (67)	\$ (1)

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Amounts Recognized in the Consolidated Balance Sheets

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current post-retirement liability ^(a)	\$ 8	\$ —	\$ 5	\$ 3	\$ 2	\$ 2	\$ —	\$ —
Noncurrent post-retirement liability ^(b)	525	59	298	163	135	19	62	1
Total accrued post-retirement liability	\$ 533	\$ 59	\$ 303	\$ 166	\$ 137	\$ 21	\$ 62	\$ 1
Regulatory assets	\$ 262	\$ —	\$ 262	\$ 164	\$ 98	\$ —	\$ 41	\$ —
Regulatory liabilities	\$ 301	\$ 38	\$ 149	\$ 93	\$ 56	\$ 18	\$ 67	\$ —
Accumulated other comprehensive (income) loss								
Deferred income tax expense	\$ 3	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(2)	—	—	—	—	—	—	—
Net actuarial gain	(9)	—	—	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive income	\$ (8)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year								
Unrecognized net actuarial loss	\$ 4	\$ 2	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —
Unrecognized prior service credit	(19)	(5)	(7)	(1)	(6)	(1)	(1)	(2)

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current post-retirement liability ^(a)	\$ 36	\$ —	\$ 29	\$ 15	\$ 14	\$ 2	\$ —	\$ —
Noncurrent post-retirement liability ^(b)	552	56	313	169	142	21	67	1
Total accrued post-retirement liability	\$ 588	\$ 56	\$ 342	\$ 184	\$ 156	\$ 23	\$ 67	\$ 1
Regulatory assets	\$ 125	\$ —	\$ 129	\$ 80	\$ 49	\$ —	\$ 46	\$ (4)
Regulatory liabilities	\$ 147	\$ 44	\$ —	\$ —	\$ —	\$ 16	\$ 64	\$ —
Accumulated other comprehensive (income) loss								
Deferred income tax expense	\$ 4	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(2)	—	—	—	—	—	—	—
Net actuarial gain	(10)	—	—	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive income	\$ (8)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year								
Unrecognized net actuarial loss (gain)	\$ 5	\$ 3	\$ 1	\$ —	\$ 1	\$ —	\$ —	\$ —
Unrecognized prior service credit	(19)	(5)	(7)	(1)	(6)	(1)	(1)	(2)

- (a) Included in Other within Current Liabilities on the Consolidated Balance Sheets.
(b) Included in Accrued pension and other post-retirement benefit costs on the Consolidated Balance Sheets.

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Assumptions Used for Other Post-Retirement Benefits Accounting

The discount rate used to determine the current year other post-retirement benefits obligation and following year's other post-retirement benefits expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected. The average remaining service period of active covered employees is nine years for Duke Energy, eight years for Duke Energy Carolinas, seven years for Duke Energy Florida, Duke Energy Ohio, and Piedmont, and six years for Progress Energy, Duke Energy Progress, and Duke Energy Indiana.

The following tables present the assumptions used for other post-retirement benefits accounting.

	December 31,		
	2018	2017	2016
Benefit Obligations			
Discount rate	4.30%	3.60%	4.10%
Net Periodic Benefit Cost			
Discount rate	3.60%	4.10%	4.40%
Expected long-term rate of return on plan assets	6.50%	6.50%	6.50%
Assumed tax rate	35%	35%	35%

	Piedmont	
	Two Months Ended	Year Ended
	December 31, 2016	October 31, 2016
Benefit Obligations		
Discount rate	4.10%	3.80%
Net Periodic Benefit Cost		
Discount rate	3.80%	4.38%
Expected long-term rate of return on plan assets	6.75%	7.25%

Assumed Health Care Cost Trend Rate

	December 31,	
	2018	2017
Health care cost trend rate assumed for next year	6.50%	7.00%
Rate to which the cost trend is assumed to decline (the ultimate trend rate)	4.75%	4.75%
Year that rate reaches ultimate trend	2024	2024

Sensitivity to Changes in Assumed Health Care Cost Trend Rates

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
	Energy	Carolinas	Energy	Progress	Florida	Ohio	Indiana	Piedmont
1-Percentage Point Increase								
Effect on total service and interest costs	\$ 1	\$ —	\$ 1	\$ 1	\$ —	\$ —	\$ —	\$ —
Effect on post-retirement benefit obligation	22	5	9	5	4	1	2	1
1-Percentage Point Decrease								
Effect on total service and interest costs	(1)	—	(1)	(1)	—	—	—	—
Effect on post-retirement benefit obligation	(20)	(5)	(8)	(5)	(4)	(1)	(2)	(1)

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Expected Benefit Payments

	Duke Energy		Duke Progress		Duke Energy		Duke Energy		Duke Energy		Duke Energy	
(in millions)	Duke Energy	Carolinas	Progress Energy	Progress	Energy Florida	Florida	Ohio	Ohio	Indiana	Indiana	Piedmont	Piedmont
Years ending December 31,												
2019	\$ 81	\$ 19	\$ 30	\$ 16	\$ 14	\$ 3	\$ 9	\$ 2				
2020	75	18	29	15	13	3	8	2				
2021	71	18	28	15	13	3	7	2				
2022	68	17	27	14	12	3	7	3				
2023	64	16	26	14	12	3	6	3				
2024-2028	266	64	109	59	50	11	26	12				

PLAN ASSETS

Description and Allocations

Duke Energy Master Retirement Trust

Assets for both the qualified pension and other post-retirement benefits are maintained in the Duke Energy Master Retirement Trust. Qualified pension and other post-retirement assets related to Piedmont were transferred into the Duke Energy Master Retirement Trust during 2017. Approximately 98 percent of the Duke Energy Master Retirement Trust assets were allocated to qualified pension plans and approximately 2 percent were allocated to other post-retirement plans (comprised of 401(h) accounts), as of December 31, 2018, and 2017. The investment objective of the Duke Energy Master Retirement Trust is to invest in a diverse portfolio of assets that is expected to generate positive surplus return over time (i.e. asset growth greater than liability growth) subject to a prudent level of portfolio risk, for the purpose of enhancing the security of benefits for plan participants.

As of December 31, 2018, Duke Energy assumes pension and other post-retirement plan assets will generate a long-term rate of return of 6.85 percent. The expected long-term rate of return was developed using a weighted average calculation of expected returns based primarily on future expected returns across asset classes considering the use of active asset managers, where applicable. The asset allocation targets were set after considering the investment objective and the risk profile. Equity securities are held for their higher expected returns. Debt securities are primarily held to hedge the qualified pension plan liability. Real assets, return seeking fixed income, hedge funds and other global securities are held for diversification. Investments within asset classes are diversified to achieve broad market participation and reduce the impact of individual managers or investments.

Effective January 1, 2019, the target asset allocation for the Duke Energy Retirement Master Trust is 58 percent liability hedging assets and 42 percent return-seeking assets. Duke Energy periodically reviews its asset allocation targets, and over time, as the funded status of the benefit plans increase, the level of asset risk relative to plan liabilities may be reduced to better manage Duke Energy's benefit plan liabilities and reduce funded status volatility.

The Duke Energy Master Retirement Trust is authorized to engage in the lending of certain plan assets. Securities lending is an investment management enhancement that utilizes certain existing securities of the Duke Energy Master Retirement Trust to earn additional income. Securities lending involves the loaning of securities to approved parties. In return for the loaned securities, the Duke Energy Master Retirement Trust receives collateral in the form of cash and securities as a safeguard against possible default of any borrower on the return of the loan under terms that permit the Duke Energy Master Retirement Trust to sell the securities. The Duke Energy Master Retirement Trust mitigates credit risk associated with securities lending arrangements by monitoring the fair value of the securities loaned, with additional collateral obtained or refunded as necessary. The fair value of securities on loan was approximately \$154 million and \$195 million at December 31, 2018, and 2017, respectively. Cash and securities obtained as collateral exceeded the fair value of the securities loaned at December 31, 2018, and 2017, respectively. Securities lending income earned by the Duke Energy Master Retirement Trust was immaterial for the years ended December 31, 2018, 2017 and 2016, respectively.

Qualified pension and other post-retirement benefits for the Subsidiary Registrants are derived from the Duke Energy Master Retirement Trust, as such, each are allocated their proportionate share of the assets discussed below.

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FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

The following table includes the target asset allocations by asset class at December 31, 2018, and the actual asset allocations for the Duke Energy Master Retirement Trust.

	Target Allocation	Actual Allocation at December 31,	
		2018	2017
U.S. equity securities	10%	11%	11%
Non-U.S. equity securities	8%	8%	8%
Global equity securities	10%	10%	10%
Global private equity securities	3%	2%	2%
Debt securities	63%	63%	63%
Hedge funds	2%	2%	2%
Real estate and cash	2%	2%	2%
Other global securities	2%	2%	2%
Total	100%	100%	100%

Other post-retirement assets

Duke Energy's other post-retirement assets are comprised of VEBA trusts and 401(h) accounts held within the Duke Energy Master Retirement Trust. Duke Energy's investment objective is to achieve sufficient returns, subject to a prudent level of portfolio risk, for the purpose of promoting the security of plan benefits for participants.

The following table presents target and actual asset allocations for the VEBA trusts at December 31, 2018.

	Target Allocation	Actual Allocation at December 31,	
		2018	2017
U.S. equity securities	32%	43%	41%
Non-U.S. equity securities	6%	8%	8%
Real estate	2%	2%	2%
Debt securities	45%	40%	36%
Cash	15%	7%	13%
Total	100%	100%	100%

Fair Value Measurements

Duke Energy classifies recurring and non-recurring fair value measurements based on the fair value hierarchy as discussed in Note 16.

Valuation methods of the primary fair value measurements disclosed below are as follows:

Investments in equity securities

Investments in equity securities are typically valued at the closing price in the principal active market as of the last business day of the reporting period. Principal active markets for equity prices include published exchanges such as NASDAQ and NYSE. Foreign equity prices are translated from their trading currency using the currency exchange rate in effect at the close of the principal active market. Prices have not been adjusted to reflect after-hours market activity. The majority of investments in equity securities are valued using Level 1 measurements. When the price of an institutional commingled fund is unpublished, it is not categorized in the fair value hierarchy, even though the funds are readily available at the fair value.

Investments in corporate debt securities and U.S. government securities

Most debt investments are valued based on a calculation using interest rate curves and credit spreads applied to the terms of the debt instrument (maturity and coupon interest rate) and consider the counterparty credit rating. Most debt valuations are Level 2 measurements. If the market for a particular fixed-income security is relatively inactive or illiquid, the measurement is Level 3. U.S. Treasury debt is typically Level 2.

Investments in short-term investment funds

Investments in short-term investment funds are valued at the net asset value of units held at year end and are readily redeemable at the measurement date. Investments in short-term investment funds with published prices are valued as Level 1. Investments in short-term investment funds with unpublished prices are valued as Level 2.

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Investments in real estate limited partnerships

Investments in real estate limited partnerships are valued by the trustee at each valuation date (monthly). As part of the trustee's valuation process, properties are externally appraised generally on an annual basis, conducted by reputable, independent appraisal firms, and signed by appraisers that are members of the Appraisal Institute, with the professional designation MAI. Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. There are three valuation techniques that can be used to value investments in real estate assets: the market, income or cost approach. The appropriateness of each valuation technique depends on the type of asset or business being valued. In addition, the trustee may cause additional appraisals to be performed as warranted by specific asset or market conditions. Property valuations and the salient valuation-sensitive assumptions of each direct investment property are reviewed by the trustee quarterly and values are adjusted if there has been a significant change in circumstances related to the investment property since the last valuation. Value adjustments for interim capital expenditures are only recognized to the extent that the valuation process acknowledges a corresponding increase in fair value. An independent firm is hired to review and approve quarterly direct real estate valuations. Key inputs and assumptions used to determine fair value includes among others, rental revenue and expense amounts and related revenue and expense growth rates, terminal capitalization rates and discount rates. Development investments are valued using cost incurred to date as a primary input until substantive progress is achieved in terms of mitigating construction and leasing risk at which point a discounted cash flow approach is more heavily weighted. Key inputs and assumptions in addition to those noted above used to determine the fair value of development investments include construction costs and the status of construction completion and leasing. Investments in real estate limited partnerships are valued at net asset value of units held at year end and are not readily redeemable at the measurement date. Investments in real estate limited partnerships are not categorized within the fair value hierarchy.

Duke Energy Master Retirement Trust

The following tables provide the fair value measurement amounts for the Duke Energy Master Retirement Trust qualified pension and other post-retirement assets.

(in millions)	December 31, 2018					Not
	Total Fair Value	Level 1	Level 2	Level 3	Categorized ^(b)	
Equity securities	\$ 2,373	\$ 1,751	\$ —	\$ —	\$ 622	
Corporate debt securities	4,054	—	4,054	—	—	
Short-term investment funds	363	279	84	—	—	
Partnership interests	120	—	—	—	120	
Hedge funds	226	—	—	—	226	
Real estate limited partnerships	144	—	—	—	144	
U.S. government securities	961	—	961	—	—	
Guaranteed investment contracts	27	—	—	27	—	
Governments bonds – foreign	30	—	30	—	—	
Cash	28	28	—	—	—	
Net pending transactions and other investments	(2)	(6)	4	—	—	
Total assets ^(a)	\$ 8,324	\$ 2,052	\$ 5,133	\$ 27	\$ 1,112	

- (a) Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana, and Piedmont were allocated approximately 27 percent, 31 percent, 15 percent, 16 percent, 5 percent, 7 percent, and 4 percent, respectively, of the Duke Energy Master Retirement Trust at December 31, 2018. Accordingly, all amounts included in the table above are allocable to the Subsidiary Registrants using these percentages.
- (b) Certain investments that are measured at fair value using the net asset value per share practical expedient have not been categorized in the fair value hierarchy.

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

(in millions)	December 31, 2017					Not
	Total Fair Value	Level 1	Level 2	Level 3	Categorized ^(b)	
Equity securities	\$ 2,823	\$ 1,976	\$ —	\$ —	\$ 847	
Corporate debt securities	4,694	—	4,694	—	—	
Short-term investment funds	246	192	54	—	—	
Partnership interests	137	—	—	—	137	
Hedge funds	226	—	—	—	226	
Real estate limited partnerships	135	—	—	—	135	
U.S. government securities	762	—	762	—	—	
Guaranteed investment contracts	28	—	—	28	—	
Governments bonds – foreign	38	—	38	—	—	
Cash	6	6	—	—	—	
Government and commercial mortgage backed securities	2	—	2	—	—	
Net pending transactions and other investments	17	15	2	—	—	
Total assets ^(a)	\$ 9,114	\$ 2,189	\$ 5,552	\$ 28	\$ 1,345	

- (a) Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana, and Piedmont were allocated approximately 27 percent, 30 percent, 15 percent, 15 percent, 5 percent, 8 percent, and 4 percent, respectively, of the Duke Energy Master Retirement Trust and Piedmont's Pension assets at December 31, 2017. Accordingly, all amounts included in the table above are allocable to the Subsidiary Registrants using these percentages.
- (b) Certain investments that are measured at fair value using the net asset value per share practical expedient have not been categorized in the fair value hierarchy.

The following table provides a reconciliation of beginning and ending balances of Duke Energy Master Retirement Trust qualified pension and other post-retirement assets at fair value on a recurring basis where the determination of fair value includes significant unobservable inputs (Level 3).

(in millions)	2018	2017 ^(a)
Balance at January 1	\$ 28	\$ 38
Sales	(1)	(2)
Total gains and other, net	—	1
Transfer of Level 3 assets to other classifications	—	(9)
Balance at December 31	\$ 27	\$ 28

- (a) Balance at January 1 includes \$9 million associated with Piedmont pension assets.

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FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Other post-retirement assets

The following tables provide the fair value measurement amounts for VEBA trust assets.

(in millions)	December 31, 2018	
	Total Fair	
	Value	Level 2
Cash and cash equivalents	\$ 3	\$ 3
Real estate	1	1
Equity securities	25	25
Debt securities	20	20
Total assets	\$ 49	\$ 49

(in millions)	December 31, 2017	
	Total Fair	
	Value	Level 2
Cash and cash equivalents	\$ 8	\$ 8
Real estate	1	1
Equity securities	28	28
Debt securities	21	21
Total assets	\$ 58	\$ 58

EMPLOYEE SAVINGS PLANS

Retirement Savings Plan

Duke Energy or its affiliates sponsor, and the Subsidiary Registrants participate in, employee savings plans that cover substantially all U.S. employees. Most employees participate in a matching contribution formula where Duke Energy provides a matching contribution generally equal to 100 percent of employee before-tax and Roth 401(k) contributions of up to 6 percent of eligible pay per pay period. Dividends on Duke Energy shares held by the savings plans are charged to retained earnings when declared and shares held in the plans are considered outstanding in the calculation of basic and diluted EPS.

For new and rehired employees who are not eligible to participate in Duke Energy's defined benefit plans, an additional employer contribution of 4 percent of eligible pay per pay period, which is subject to a three-year vesting schedule, is provided to the employee's savings plan account. Certain Piedmont employees whose participation in a prior Piedmont defined benefit plan (that was frozen as of December 31, 2017) are eligible for employer transition credit contributions of 3 to 5 percent of eligible pay per period, for each pay period during the three-year period ending December 31, 2020.

The following table includes pretax employer matching contributions made by Duke Energy and expensed by the Subsidiary Registrants.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont ^(a)
Years ended December 31,								
2018	\$ 213	\$ 68	\$ 58	\$ 40	\$ 19	\$ 4	\$ 10	\$ 12
2017	179	61	53	37	16	3	9	7
2016	169	57	50	35	15	3	8	

(a) Piedmont's pretax employer matching contributions were \$1 million and \$7 million during the two months ended December 31, 2016, and for the year ended October 31, 2016, respectively.

Money Purchase Pension Plan

Piedmont sponsored the MPP plan, which is a defined contribution pension plan that allowed employees to direct investments and assume risk of investment returns. Under the MPP plan, Piedmont annually deposited a percentage of each participant's pay into an account of the MPP plan. This contribution equaled 4 percent of the participant's eligible compensation plus an additional 4 percent of eligible compensation above the Social Security wage base up to the IRS compensation limit. The participant was vested in MPP plan after three years of service. No contributions were made to the MPP plan during the two months ended December 31, 2016. Piedmont contributed \$2 million to the MPP plan during each of the years ended December 31, 2017, and October 31, 2016. Effective December 31, 2017, the MPP Plan was merged into the Retirement Savings Plan and the money purchase plan formula was discontinued. Beginning with the 2018 plan year, the former MPP Plan participants are eligible to receive the additional employer contribution under the Retirement Savings Plan, discussed above.

23. INCOME TAXES

Tax Act

On December 22, 2017, President Trump signed the Tax Act into law. Among other provisions, the Tax Act lowered the corporate federal income tax rate from 35 to 21 percent, limits interest deductions outside of regulated utility operations, requires the normalization of excess deferred taxes associated with property under the average rate assumption method as a prerequisite to qualifying for accelerated depreciation and repealed the federal manufacturing deduction. The Tax Act also repealed the corporate AMT and stipulates a refund of 50 percent of remaining AMT credit carryforwards (to the extent the credits exceed regular tax for the year) for tax years 2018, 2019 and 2020 with all remaining AMT credits to be refunded in tax year 2021.

On December 22, 2017, the SEC staff issued SAB 118, Income Tax Accounting Implications of the Tax Cuts and Jobs Act, which provides guidance on accounting for the Tax Act's impact. SAB 118 provides a measurement period, which in no case should extend beyond one year from the Tax Act enactment date, during which a company acting in good faith may complete the accounting for the impacts of the Tax Act under ASC Topic 740. In accordance with SAB 118, a company must reflect the income tax effects of the Tax Act in the reporting period in which the accounting under ASC Topic 740 is complete. To the extent that a company's accounting for certain income tax effects of the Tax Act is incomplete, a company can determine a reasonable estimate for those effects and record a provisional estimate in the financial statements in the first reporting period in which a reasonable estimate can be determined.

As of December 31, 2018, the accounting for the effects of the Tax Act is complete. During the year ended December 31, 2018, Duke Energy recorded the following measurement period adjustments in accordance with SAB 118:

- Additional tax expense of \$23 million related to the completion of the analysis of Duke Energy's existing regulatory liability related to deferred taxes;
- A \$10 million tax benefit for the remeasurement of deferred tax assets and deferred tax liabilities primarily related to the guidance on bonus depreciation issued by the IRS in August 2018 affecting the computation of the Company's 2017 Federal income tax liability;
- Additional tax expense of \$7 million related to the portion of the deferred tax asset as of December 31, 2017, that represents nondeductible long-term incentives under the Tax Act's limitation on the deductibility of executive compensation; and
- During the fourth quarter of 2018, the Company released the \$76 million valuation allowance that it recorded in the first quarter of 2018 as a result of additional guidance published by the IRS that stated refundable AMT credits would not be subject to sequestration.
- The majority of Duke Energy's operations are regulated and it is expected that the Subsidiary Registrants will ultimately pass on the savings associated with the amount representing the remeasurement of deferred tax balances related to regulated operations to customers. For Duke Energy's regulated operations, where the reduction is expected to be returned to customers in future rates, the remeasurement has been deferred as a regulatory liability. During 2018, Duke Energy recorded an additional regulatory liability of \$83 million, representing the revaluation of those deferred tax balances. The Subsidiary Registrants continue to respond to requests from regulators in various jurisdictions to determine the timing and magnitude of savings they will pass on to customers.

In addition, during 2018 Duke Energy reclassified \$573 million of AMT credit carryforwards from noncurrent deferred tax liabilities to a current federal income tax receivable as the Company expects to receive this amount via a refund from the IRS in 2019, based on the expected filing of Duke Energy's 2018 income tax return in the second quarter of 2019.

FINANCIAL STATEMENTS

INCOME TAXES

Income Tax Expense

Components of Income Tax Expense

(in millions)	Year Ended December 31, 2018							
	Duke Energy		Progress Energy		Duke Energy		Duke Energy	
	Energy	Carolinas	Energy	Progress	Florida	Ohio	Indiana	Piedmont
Current income taxes								
Federal	\$ (647)	\$ (8)	\$ (135)	\$ (71)	\$ (49)	\$ 20	\$ 29	\$ 67
State	(11)	6	(5)	(5)	(10)	(1)	3	1
Foreign	3	—	—	—	—	—	—	—
Total current income taxes	(655)	(2)	(140)	(76)	(59)	19	32	68
Deferred income taxes								
Federal	1,064	299	341	256	115	21	74	(36)
State	49	11	20	(17)	45	3	22	5
Total deferred income taxes ^{(a)(b)}	1,113	310	361	239	160	24	96	(31)
Investment tax credit amortization	(10)	(5)	(3)	(3)	—	—	—	—
Income tax expense from continuing operations	448	303	218	160	101	43	128	37
Tax benefit from discontinued operations	(26)	—	—	—	—	—	—	—
Total income tax expense included in Consolidated Statements of Operations	\$ 422	\$ 303	\$ 218	\$ 160	\$ 101	\$ 43	\$ 128	\$ 37

- (a) Includes benefits of NOL carryforwards and tax credit carryforwards of \$22 million at Duke Energy Carolinas, \$293 million at Progress Energy, \$59 million at Duke Energy Progress, \$219 million at Duke Energy Florida, \$17 million at Duke Energy Ohio, \$21 million at Duke Energy Indiana and \$39 million at Piedmont. In addition, total deferred income taxes includes utilization of NOL carryforwards and tax credit carryforwards of \$18 million at Duke Energy.
- (b) For the year ended December 31, 2018, the Company has revised the December 31, 2017, estimates of the income tax effects of the Tax Act, in accordance with SAB 118. See the Statutory Rate Reconciliation section below for additional information on the Tax Act's impact on income tax expense.

(in millions)	Year Ended December 31, 2017							
	Duke Energy		Progress Energy		Duke Energy		Duke Energy	
	Energy	Carolinas	Energy	Progress	Florida	Ohio	Indiana	Piedmont
Current income taxes								
Federal	\$ (247)	\$ 221	\$ (436)	\$ (95)	\$ (188)	\$ (37)	\$ 128	\$ (90)
State	4	20	(5)	2	(11)	2	21	(3)
Foreign	3	—	—	—	—	—	—	—
Total current income taxes	(240)	241	(441)	(93)	(199)	(35)	149	(93)
Deferred income taxes								
Federal	1,344	381	664	378	194	99	138	147
State	102	35	44	10	51	(4)	14	8
Total deferred income taxes ^{(a)(b)}	1,446	416	708	388	245	95	152	155
Investment tax credit amortization	(10)	(5)	(3)	(3)	—	(1)	—	—
Income tax expense from continuing operations	1,196	652	264	292	46	59	301	62
Tax benefit from discontinued operations	(6)	—	—	—	—	—	—	—
Total income tax expense included in Consolidated Statements of Operations	\$ 1,190	\$ 652	\$ 264	\$ 292	\$ 46	\$ 59	\$ 301	\$ 62

- (a) Includes utilization of NOL carryforwards and tax credit carryforwards of \$428 million at Duke Energy, \$74 million at Progress Energy, \$36 million at Duke Energy Florida, \$17 million at Duke Energy Ohio, \$42 million at Duke Energy Indiana and \$79 million at Piedmont. In addition, total deferred income taxes includes benefits of NOL carryforwards and tax credit carryforwards of \$10 million at Duke Energy Carolinas and \$1 million at Duke Energy Progress.
- (b) As a result of the Tax Act, Duke Energy's deferred tax assets and liabilities were revalued as of December 31, 2017. See the Statutory Rate Reconciliation section below for additional information on the Tax Act's impact on income tax expense.

FINANCIAL STATEMENTS

INCOME TAXES

(in millions)	Year Ended December 31, 2016						
	Duke			Duke		Duke	
	Duke Energy	Energy Carolinas	Progress Energy	Energy Progress	Energy Florida	Energy Ohio	Energy Indiana
Current income taxes							
Federal	\$ —	\$ 139	\$ 15	\$ (59)	\$ 76	\$ (7)	\$ 7
State	(15)	25	(19)	(25)	22	(13)	6
Foreign	2	—	—	—	—	—	—
Total current income taxes	(13)	164	(4)	(84)	98	(20)	13
Deferred income taxes							
Federal	1,064	430	486	350	199	88	202
State	117	45	50	40	25	11	11
Total deferred income taxes ^(a)	1,181	475	536	390	224	99	213
Investment tax credit amortization	(12)	(5)	(5)	(5)	—	(1)	(1)
Income tax expense from continuing operations	1,156	634	527	301	322	78	225
Tax (benefit) expense from discontinued operations	(30)	—	1	—	—	(36)	—
Total income tax expense included in Consolidated Statements of Operations	\$ 1,126	\$ 634	\$ 528	\$ 301	\$ 322	\$ 42	\$ 225

- (a) Includes benefits of NOL carryforwards and utilization of NOL and tax credit carryforwards of \$648 million at Duke Energy, \$4 million at Duke Energy Carolinas, \$190 million at Progress Energy, \$60 million at Duke Energy Progress, \$49 million at Duke Energy Florida, \$26 million at Duke Energy Ohio and \$58 million at Duke Energy Indiana.

(in millions)	Piedmont	
	Two Months Ended	Year Ended October 31,
	December 31, 2016	2016
Current income taxes		
Federal	\$ 4	\$ 27
State	(2)	12
Total current income taxes	2	39
Deferred income taxes		
Federal	24	79
State	6	6
Total deferred income taxes ^(a)	30	85
Total income tax expense from continuing operations included in Consolidated Statements of Operations	\$ 32	\$ 124

- (a) Includes benefits of NOL and tax carryforwards of \$17 million and \$91 million for the two months ended December 31, 2016, and the year ended October 31, 2016, respectively.

Duke Energy Income from Continuing Operations before Income Taxes

(in millions)	Years Ended December 31,		
	2018	2017	2016
Domestic ^(a)	\$ 3,018	\$ 4,207	\$ 3,689
Foreign	55	59	45
Income from continuing operations before income taxes	\$ 3,073	\$ 4,266	\$ 3,734

- (a) Includes a \$16 million expense in 2017 related to the Tax Act impact on equity earnings included within Equity in earnings (losses) of unconsolidated affiliates on the Consolidated Statement of Operations.

Taxes on Foreign Earnings

In February 2016, Duke Energy announced it had initiated a process to divest the International Disposal Group and, accordingly, no longer intended to indefinitely reinvest post-2014 undistributed foreign earnings. This change in the company's intent, combined with the extension of bonus depreciation by Congress in late 2015, allowed Duke Energy to more efficiently utilize foreign tax credits and reduce U.S. deferred tax liabilities associated with the historical unremitted foreign earnings by approximately \$95 million during the year ended December 31, 2016.

FINANCIAL STATEMENTS

INCOME TAXES

Due to the classification of the International Disposal Group as discontinued operations beginning in the fourth quarter of 2016, income tax amounts related to the International Disposal Group's foreign earnings are presented within Income (Loss) From Discontinued Operations, net of tax on the Consolidated Statements of Operations. In December 2016, Duke Energy closed on the sale of the International Disposal Group in two separate transactions to execute the divestiture. See Note 2 for additional information on the sale.

Statutory Rate Reconciliation

The following tables present a reconciliation of income tax expense at the U.S. federal statutory tax rate to the actual tax expense from continuing operations.

(in millions)	Year Ended December 31, 2018							
	Duke	Duke	Duke	Duke	Duke	Duke	Duke	
	Energy	Energy	Progress	Energy	Energy	Energy	Energy	
	Energy	Carolinas	Energy	Progress	Florida	Ohio	Indiana	Piedmont
Income tax expense, computed at the statutory rate of 21 percent	\$ 645	\$ 288	\$ 263	\$ 174	\$ 137	\$ 46	\$ 109	\$ 35
State income tax, net of federal income tax effect	30	14	13	(17)	28	2	20	4
Amortization of excess deferred income tax	(61)	—	(55)	(1)	(54)	(3)	(2)	—
AFUDC equity income	(42)	(15)	(22)	(12)	(10)	(2)	(2)	—
AFUDC equity depreciation	31	18	9	5	4	1	4	—
Renewable energy production tax credits	(129)	—	—	—	—	—	—	—
Other tax credits	(28)	(7)	(13)	(5)	(8)	(1)	(1)	(3)
Tax Act ^(a)	20	1	25	19	—	2	—	—
Other items, net	(18)	4	(2)	(3)	4	(2)	—	1
Income tax expense from continuing operations	\$ 448	\$ 303	\$ 218	\$ 160	\$ 101	\$ 43	\$ 128	\$ 37
Effective tax rate	14.6%	22.1%	17.4%	19.3%	15.4%	19.6%	24.6%	22.3%

- (a) For the year ended December 31, 2018, the Company revised the December 31, 2017 estimates of the income tax effects of the Tax Act, in accordance with SAB 118. Amounts primarily include but are not limited to items that are excluded for ratemaking purposes related certain wholesale fixed rate contracts, remeasurement of nonregulated net deferred tax liabilities, Federal net operating losses, and valuation allowance on foreign tax credits.

(in millions)	Year Ended December 31, 2017							
	Duke	Duke	Duke	Duke	Duke	Duke	Duke	
	Energy	Energy	Progress	Energy	Energy	Energy	Energy	
	Energy	Carolinas	Energy	Progress	Florida	Ohio	Indiana	Piedmont
Income tax expense, computed at the statutory rate of 35 percent	\$ 1,493	\$ 653	\$ 536	\$ 353	\$ 265	\$ 88	\$ 229	\$ 70
State income tax, net of federal income tax effect	69	36	25	8	26	(1)	23	3
AFUDC equity income	(81)	(37)	(32)	(17)	(16)	(4)	(8)	—
Renewable energy production tax credits	(132)	—	—	—	—	—	—	—
Tax Act ^(a)	(112)	15	(246)	(40)	(226)	(23)	55	(12)
Tax true up	(52)	(24)	(19)	(13)	(7)	(5)	(6)	—
Other items, net	11	9	—	1	4	4	8	1
Income tax expense from continuing operations	\$ 1,196	\$ 652	\$ 264	\$ 292	\$ 46	\$ 59	\$ 301	\$ 62
Effective tax rate	28.0%	34.9%	17.2%	29.0%	6.1%	23.4%	46.0%	30.8%

- (a) Amounts primarily include but are not limited to items that are excluded for ratemaking purposes related to abandoned or impaired assets, certain wholesale fixed rate contracts, remeasurement of nonregulated net deferred tax liabilities, Federal net operating losses, and valuation allowance on foreign tax credits.

FINANCIAL STATEMENTS

INCOME TAXES

(in millions)	Year Ended December 31, 2016						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Income tax expense, computed at the statutory rate of 35 percent	\$ 1,307	\$ 630	\$ 548	\$ 315	\$ 306	\$ 95	\$ 212
State income tax, net of federal income tax effect	64	46	20	10	30	(2)	11
AFUDC equity income	(70)	(36)	(26)	(17)	(9)	(2)	(6)
Renewable energy production tax credits	(97)	—	—	—	—	—	—
Audit adjustment	5	3	—	—	—	—	—
Tax true up	(14)	(14)	(11)	(3)	(9)	(16)	2
Other items, net	(39)	5	(4)	(4)	4	3	6
Income tax expense from continuing operations	\$ 1,156	\$ 634	\$ 527	\$ 301	\$ 322	\$ 78	\$ 225
Effective tax rate	31.0%	35.2%	33.7%	33.4%	36.9%	28.9%	37.1%

(in millions)	Piedmont	
	Two Months Ended December 31, 2016	Year Ended October 31, 2016
Income tax expense, computed at the statutory rate of 35 percent	\$ 30	\$ 111
State income tax, net of federal income tax effect	1	11
Other items, net	1	2
Income tax expense from continuing operations	\$ 32	\$ 124
Effective tax rate	37.2%	39.1%

Valuation allowances have been established for certain state NOL carryforwards and state income tax credits that reduce deferred tax assets to an amount that will be realized on a more-likely-than-not basis. The net change in the total valuation allowance is included in the State income tax, net of federal income tax effect in the above tables.

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SEP 13 2021

FINANCIAL STATEMENTS

INCOME TAXES

DEFERRED TAXES

Net Deferred Income Tax Liability Components

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Deferred credits and other liabilities	\$ 164	\$ 64	\$ 35	\$ 53	\$ —	\$ 17	\$ 6	\$ 17
Capital lease obligations	60	26	—	—	—	—	2	—
Pension, post-retirement and other employee benefits	347	24	110	47	58	16	24	(1)
Progress Energy merger purchase accounting adjustments ^(a)	483	—	—	—	—	—	—	—
Tax credits and NOL carryforwards	4,580	257	693	215	363	42	237	110
Regulatory liabilities and deferred credits	—	—	—	—	—	56	—	48
Investments and other assets	—	—	—	—	—	18	—	16
Other	25	6	5	5	—	1	(1)	—
Valuation allowance	(484)	—	—	—	—	—	—	—
Total deferred income tax assets	5,175	377	843	320	421	150	268	190
Investments and other assets	(1,317)	(795)	(430)	(272)	(163)	—	(5)	—
Accelerated depreciation rates	(10,124)	(3,207)	(3,369)	(1,735)	(1,670)	(967)	(1,081)	(733)
Regulatory assets and deferred debits, net	(1,540)	(64)	(985)	(432)	(574)	—	(191)	—
Other	—	—	—	—	—	—	—	(8)
Total deferred income tax liabilities	(12,981)	(4,066)	(4,784)	(2,439)	(2,407)	(967)	(1,277)	(741)
Net deferred income tax liabilities	\$ (7,806)	\$ (3,689)	\$ (3,941)	\$ (2,119)	\$ (1,986)	\$ (817)	\$ (1,009)	\$ (551)

(a) Primarily related to capital lease obligations and debt fair value adjustments.

The following table presents the expiration of tax credits and NOL carryforwards.

(in millions)	December 31, 2018			
	Amount	Expiration Year		
Investment tax credits	\$ 1,614	2024	—	2038
Alternative minimum tax credits	574	Refundable by 2021		
Federal NOL carryforwards ^{(a)(e)}	788	2022	—	Indefinite
State NOL carryforwards and credits ^{(b)(e)}	301	2019	—	Indefinite
Foreign NOL carryforwards ^(c)	12	2027	—	2037
Foreign Tax Credits ^(d)	1,271	2024	—	2027
Charitable contribution carryforwards	20	2019	—	2023
Total tax credits and NOL carryforwards	\$ 4,580			

- (a) A valuation allowance of \$4 million has been recorded on the Federal NOL carryforwards, as presented in the Net Deferred Income Tax Liability Components table.
- (b) A valuation allowance of \$85 million has been recorded on the state NOL carryforwards, as presented in the Net Deferred Income Tax Liability Components table.
- (c) A valuation allowance of \$12 million has been recorded on the foreign NOL carryforwards, as presented in the Net Deferred Income Tax Liability Components table.
- (d) A valuation allowance of \$383 million has been recorded on the foreign tax credits, as presented in the Net Deferred Income Tax Liability Components table.
- (e) Indefinite carryforward for Federal NOLs, and NOLs for states that have adopted the Tax Act's NOL provisions, generated in tax years beginning after December 31, 2017.

FINANCIAL STATEMENTS

INCOME TAXES

(in millions)	December 31, 2017							
	Duke Energy		Duke Progress		Duke Energy		Duke Energy	
	Duke Energy	Carolinas	Progress Energy	Progress	Energy Florida	Energy Ohio	Energy Indiana	Piedmont
Deferred credits and other liabilities	\$ 143	\$ 33	\$ 78	\$ 23	\$ 49	\$ 11	\$ 6	\$ (5)
Capital lease obligations	49	14	—	—	—	—	2	—
Pension, post-retirement and other employee benefits	295	(17)	111	44	60	14	18	(4)
Progress Energy merger purchase accounting adjustments ^(a)	536	—	—	—	—	—	—	—
Tax credits and NOL carryforwards	4,527	234	402	156	143	25	216	70
Regulatory liabilities and deferred credits	—	222	—	—	—	65	—	61
Investments and other assets	—	—	—	—	—	—	1	18
Other	73	10	1	4	—	—	—	—
Valuation allowance	(519)	—	(14)	—	—	—	—	—
Total deferred income tax assets	5,104	496	578	227	252	115	243	140
Investments and other assets	(1,419)	(849)	(470)	(289)	(187)	—	(14)	—
Accelerated depreciation rates	(9,216)	(3,060)	(2,803)	(1,583)	(1,257)	(896)	(966)	(697)
Regulatory assets and deferred debits, net	(1,090)	—	(807)	(238)	(569)	—	(188)	—
Other	—	—	—	—	—	—	—	(7)
Total deferred income tax liabilities	(11,725)	(3,909)	(4,080)	(2,110)	(2,013)	(896)	(1,168)	(704)
Net deferred income tax liabilities	\$ (6,621)	\$ (3,413)	\$ (3,502)	\$ (1,883)	\$ (1,761)	\$ (781)	\$ (925)	\$ (564)

(a) Primarily related to capital lease obligations and debt fair value adjustments.

On June 28, 2017, the North Carolina General Assembly amended N.C. Gen. Stat. 105-130.3, reducing the North Carolina corporate income tax rate from a statutory rate of 3.0 to 2.5 percent beginning January 1, 2019. Duke Energy recorded a net reduction of approximately \$55 million to their North Carolina deferred tax liabilities in the second quarter of 2017. The significant majority of this deferred tax liability reduction was offset by recording a regulatory liability pending NCUC determination of the disposition of amounts related to Duke Energy Carolinas, Duke Energy Progress and Piedmont. The impact did not have a significant impact on the financial position, results of operation or cash flows of Duke Energy, Duke Energy Carolinas, Progress Energy or Duke Energy Progress.

UNRECOGNIZED TAX BENEFITS

The following tables present changes to unrecognized tax benefits.

(in millions)	Year Ended December 31, 2018							
	Duke Energy		Duke Progress		Duke Energy		Duke Energy	
	Duke Energy	Carolinas	Progress Energy	Progress	Energy Florida	Energy Ohio	Energy Indiana	Piedmont
Unrecognized tax benefits – January 1	\$ 25	\$ 5	\$ 5	\$ 5	\$ 5	\$ 1	\$ 1	\$ 3
Unrecognized tax benefits increases (decreases)								
Gross decreases – tax positions in prior periods	(2)	(1)	—	—	(4)	—	—	—
Gross increases – current period tax positions	7	2	4	1	2	—	—	1
Decreases due to settlements	(6)	—	—	—	—	—	—	—
Total changes	(1)	1	4	1	(2)	—	—	1
Unrecognized tax benefits – December 31	\$ 24	\$ 6	\$ 9	\$ 6	\$ 3	\$ 1	\$ 1	\$ 4

FINANCIAL STATEMENTS

INCOME TAXES

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unrecognized tax benefits – January 1	\$ 17	\$ 1	\$ 2	\$ 2	\$ 4	\$ 4	\$ —	\$ —
Unrecognized tax benefits increases (decreases)								
Gross increases – tax positions in prior periods	12	4	3	3	1	1	1	3
Gross decreases – tax positions in prior periods	(4)	—	—	—	—	(4)	—	—
Total changes	8	4	3	3	1	(3)	1	3
Unrecognized tax benefits – December 31	\$ 25	\$ 5	\$ 5	\$ 5	\$ 5	\$ 1	\$ 1	\$ 3

(in millions)	Year Ended December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unrecognized tax benefits – January 1	\$ 88	\$ 72	\$ 1	\$ 3	\$ —	\$ —	\$ —	\$ 1
Unrecognized tax benefits increases (decreases)								
Gross increases – tax positions in prior periods	—	—	—	—	4	4	—	—
Gross decreases – tax positions in prior periods	(4)	(4)	(1)	(1)	—	—	—	—
Decreases due to settlements	(68)	(67)	—	—	—	—	—	(1)
Reduction due to lapse of statute of limitations	1	—	2	—	—	—	—	—
Total changes	(71)	(71)	1	(1)	4	4	—	(1)
Unrecognized tax benefits – December 31	\$ 17	\$ 1	\$ 2	\$ 2	\$ 4	\$ 4	\$ —	\$ —

The following table includes additional information regarding the Duke Energy Registrants' unrecognized tax benefits at December 31, 2018. All Duke Energy Registrants do not anticipate a material increase or decrease in unrecognized tax benefits within the next 12 months.

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Amount that if recognized, would affect the effective tax rate or regulatory liability ^(a)	\$ 21	\$ 6	\$ 9	\$ 6	\$ 3	\$ 1	\$ 1	\$ 4
Amount that if recognized, would be recorded as a component of discontinued operations	2	—	—	—	—	—	—	—

- (a) Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont are unable to estimate the specific amounts that would affect the effective tax rate versus the regulatory liability.

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SEP 13 2021

FINANCIAL STATEMENTS

INCOME TAXES

OTHER TAX MATTERS

The following tables include interest recognized in the Consolidated Statements of Operations and the Consolidated Balance Sheets.

(in millions)	Year Ended December 31, 2018				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Net interest income recognized related to income taxes	\$ 2	\$ —	\$ —	\$ —	\$ —
Interest payable related to income taxes	3	1	1		

(in millions)	Year Ended December 31, 2017				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Net interest income recognized related to income taxes	\$ —	\$ —	\$ 1	\$ —	\$ 1
Net interest expense recognized related to income taxes	—	2	—	—	—
Interest payable related to income taxes	5	25	1	1	—

(in millions)	Year Ended December 31, 2016				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Net interest income recognized related to income taxes	\$ —	\$ —	\$ 1	\$ —	\$ 2
Net interest expense recognized related to income taxes	—	7	—	—	—
Interest payable related to income taxes	4	23	1	1	—

Piedmont recognized \$1 million in net interest income related to income taxes in the Consolidated Statements of Operations for the year ended October 31, 2016.

Duke Energy and its subsidiaries are no longer subject to U.S. federal examination for years before 2015. With few exceptions, Duke Energy and its subsidiaries are no longer subject to state, local or non-U.S. income tax examinations by tax authorities for years before 2015.

24. OTHER INCOME AND EXPENSES, NET

The components of Other income and expenses, net on the Consolidated Statements of Operations are as follows.

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Interest income	\$ 20	\$ 1	\$ 18	\$ 1	\$ 18	\$ 7	\$ 9	\$ 1
AFUDC equity	221	73	104	57	47	11	32	—
Post in-service equity returns	15	9	5	5	—	1	—	—
Nonoperating income, other	143	70	38	24	21	4	4	13
Other income and expense, net	\$ 399	\$ 153	\$ 165	\$ 87	\$ 86	\$ 23	\$ 45	\$ 14

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Interest income	\$ 13	\$ 2	\$ 6	\$ 2	\$ 5	\$ 6	\$ 8	\$ —
AFUDC equity	237	106	92	47	45	11	28	—
Post in-service equity returns	40	28	12	12	—	—	—	—
Nonoperating income, other	218	63	99	54	46	6	11	(11)
Other income and expense, net	\$ 508	\$ 199	\$ 209	\$ 115	\$ 96	\$ 23	\$ 47	\$ (11)

FINANCIAL STATEMENTS

OTHER INCOME AND EXPENSES, NET

(in millions)	Year Ended December 31, 2016						
	Duke		Duke		Duke		Duke
	Energy	Energy Carolinas	Progress Energy	Energy Progress	Energy Florida	Energy Ohio	Energy Indiana
Interest income	\$ 21	\$ 4	\$ 4	\$ 3	\$ 2	\$ 5	\$ 6
AFUDC equity	200	102	76	50	26	6	16
Post in-service equity returns	67	55	12	12	—	—	—
Nonoperating income, other	175	53	94	67	35	—	4
Other income and expense, net ^(a)	\$ 463	\$ 214	\$ 186	\$ 132	\$ 63	\$ 11	\$ 26

(a) Amounts for Piedmont for the two months ended December 31, 2016, and for the year ended October 31, 2016, were not material.

25. SUBSEQUENT EVENTS

For information on subsequent events related to the adoption of the new lease accounting standard, regulatory matters, commitments and contingencies and debt and credit facilities, see Notes 1, 4, 5 and 6, respectively.

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SEP 13 2021

FINANCIAL STATEMENTS

QUARTERLY FINANCIAL DATA

26. QUARTERLY FINANCIAL DATA (UNAUDITED)

DUKE ENERGY

Quarterly EPS amounts may not sum to the full-year total due to changes in the weighted average number of common shares outstanding and rounding.

(in millions, except per share data)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Operating revenues	\$ 6,135	\$ 5,643	\$ 6,628	\$ 6,115	\$ 24,521
Operating income	1,256	979	1,579	871	4,685
Income from continuing operations	622	507	1,062	434	2,625
(Loss) Income from discontinued operations, net of tax	—	(5)	4	20	19
Net income	622	502	1,066	454	2,644
Net income attributable to Duke Energy Corporation	620	500	1,082	464	2,666
Earnings per share:					
Income from continuing operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ 0.88	\$ 0.72	\$ 1.51	\$ 0.62	\$ 3.73
Diluted	\$ 0.88	\$ 0.72	\$ 1.51	\$ 0.62	\$ 3.73
(Loss) Income from discontinued operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ —	\$ (0.01)	\$ —	\$ 0.03	\$ 0.03
Diluted	\$ —	\$ (0.01)	\$ —	\$ 0.03	\$ 0.03
Net income attributable to Duke Energy Corporation common stockholders					
Basic	\$ 0.88	\$ 0.71	\$ 1.51	\$ 0.65	\$ 3.76
Diluted	\$ 0.88	\$ 0.71	\$ 1.51	\$ 0.65	\$ 3.76
2017					
Operating revenues	\$ 5,729	\$ 5,555	\$ 6,482	\$ 5,799	\$ 23,565
Operating income	1,402	1,353	1,661	1,209	5,625
Income from continuing operations	717	691	957	705	3,070
Loss from discontinued operations, net of tax	—	(2)	(2)	(2)	(6)
Net income	717	689	955	703	3,064
Net income attributable to Duke Energy Corporation	716	686	954	703	3,059
Earnings per share:					
Income from continuing operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ 1.02	\$ 0.98	\$ 1.36	\$ 1.00	\$ 4.37
Diluted	\$ 1.02	\$ 0.98	\$ 1.36	\$ 1.00	\$ 4.37
Loss from discontinued operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ —	\$ —	\$ —	\$ —	\$ (0.01)
Diluted	\$ —	\$ —	\$ —	\$ —	\$ (0.01)
Net income attributable to Duke Energy Corporation common stockholders					
Basic	\$ 1.02	\$ 0.98	\$ 1.36	\$ 1.00	\$ 4.36
Diluted	\$ 1.02	\$ 0.98	\$ 1.36	\$ 1.00	\$ 4.36

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Step 13 2021

FINANCIAL STATEMENTS

QUARTERLY FINANCIAL DATA

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (17)	\$ (20)	\$ (16)	\$ (31)	\$ (84)
Regulatory and Legislative Impacts (see Note 4)	(86)	(179)	—	—	(265)
Sale of Retired Plant (see Note 3)	(107)	—	—	—	(107)
Impairment Charges (see Notes 4, 11 and 12)	(55)	—	(93)	(60)	(208)
Severance Charges (see Note 20)	—	—	—	(187)	(187)
Impacts of the Tax Act (see Note 23)	(76)	—	3	53	(20)
Total	\$ (341)	\$ (199)	\$ (106)	\$ (225)	\$ (871)
2017					
Costs to Achieve Mergers (see Note 2)	\$ (16)	\$ (30)	\$ (23)	\$ (34)	\$ (103)
Regulatory Settlements (see Note 4)	—	—	(135)	(23)	(158)
Commercial Renewables Impairments (see Notes 10 and 11)	—	—	(84)	(18)	(102)
Impacts of the Tax Act (see Note 23)	—	—	—	102	102
Total	\$ (16)	\$ (30)	\$ (242)	\$ 27	\$ (261)

DUKE ENERGY CAROLINAS

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Operating revenues	\$ 1,763	\$ 1,672	\$ 2,090	\$ 1,775	\$ 7,300
Operating income	482	224	713	241	1,660
Net income	323	117	496	135	1,071
2017					
Operating revenues	\$ 1,716	\$ 1,729	\$ 2,136	\$ 1,721	\$ 7,302
Operating income	471	471	763	384	2,089
Net income	270	273	466	205	1,214

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (4)	\$ (2)	\$ (2)	\$ (1)	\$ (9)
Regulatory and Legislative Impacts (see Note 4)	(19)	(179)	—	—	(198)
Severance Charges (see Note 20)	—	—	—	(102)	(102)
Impacts of the Tax Act (see Note 23)	—	—	(1)	—	(1)
Total	\$ (23)	\$ (181)	\$ (3)	\$ (103)	\$ (310)
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (4)	\$ (6)	\$ (5)	\$ (5)	\$ (20)
Impacts of the Tax Act (see Note 23)	—	—	—	(15)	(15)
Total	\$ (4)	\$ (6)	\$ (5)	\$ (20)	\$ (35)

FINANCIAL STATEMENTS

QUARTERLY FINANCIAL DATA

PROGRESS ENERGY

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Operating revenues	\$ 2,576	\$ 2,498	\$ 3,045	\$ 2,609	\$ 10,728
Operating income	447	484	663	334	1,928
Net income	237	267	406	123	1,033
Net income attributable to Parent	235	265	404	123	1,027
2017					
Operating revenues	\$ 2,179	\$ 2,392	\$ 2,864	\$ 2,348	\$ 9,783
Operating income	471	576	641	459	2,147
Net income	201	277	343	447	1,268
Net income attributable to Parent	199	274	341	444	1,258

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (4)	\$ (3)	\$ (1)	\$ (2)	\$ (10)
Regulatory and Legislative Impacts (see Note 4)	(67)	—	—	—	(67)
Impairment Charges (see Note 4)	—	—	—	(60)	(60)
Severance Charges (see Note 20)	—	—	—	(69)	(69)
Impacts of the Tax Act (see Note 23)	(1)	—	(5)	(19)	(25)
Total	\$ (72)	\$ (3)	\$ (6)	\$ (150)	\$ (231)
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (4)	\$ (7)	\$ (6)	\$ (6)	\$ (23)
Regulatory Settlements (see Note 4)	—	—	(135)	(23)	(158)
Impacts of the Tax Act (see Note 23)	—	—	—	246	246
Total	\$ (4)	\$ (7)	\$ (141)	\$ 217	\$ 65

DUKE ENERGY PROGRESS

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Operating revenues	\$ 1,460	\$ 1,291	\$ 1,582	\$ 1,366	\$ 5,699
Operating income	269	233	330	227	1,059
Net income	177	139	216	135	667
2017					
Operating revenues	\$ 1,219	\$ 1,199	\$ 1,460	\$ 1,251	\$ 5,129
Operating income	274	270	398	243	1,185
Net income	147	154	246	168	715

FINANCIAL STATEMENTS

QUARTERLY FINANCIAL DATA

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (2)	\$ (2)	\$ (1)	\$ (1)	\$ (6)
Regulatory and Legislative Impacts (see Note 4)	(67)	—	—	—	(67)
Severance Charges (see Note 20)	—	—	—	(52)	(52)
Impacts of the Tax Act (see Note 23)	—	—	(4)	(15)	(19)
Total	\$ (69)	\$ (2)	\$ (5)	\$ (68)	\$ (144)
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (2)	\$ (4)	\$ (4)	\$ (4)	\$ (14)
Regulatory Settlements (see Note 4)	—	—	—	(23)	(23)
Impacts of the Tax Act (see Note 23)	—	—	—	40	40
Total	\$ (2)	\$ (4)	\$ (4)	\$ 13	\$ 3

DUKE ENERGY FLORIDA

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Operating revenues	\$ 1,115	\$ 1,203	\$ 1,462	\$ 1,241	\$ 5,021
Operating income	173	245	331	107	856
Net income	103	168	243	40	554
2017					
Operating revenues	\$ 959	\$ 1,191	\$ 1,401	\$ 1,095	\$ 4,646
Operating income	192	301	236	212	941
Net income	90	158	120	344	712

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (2)	\$ (1)	\$ —	\$ (1)	\$ (4)
Impairment Charges (see Note 4)	—	—	—	(60)	(60)
Severance Charges (see Note 20)	—	—	—	(17)	(17)
Impacts of the Tax Act (see Note 23)	—	—	(2)	2	—
Total	\$ (2)	\$ (1)	\$ (2)	\$ (76)	\$ (81)
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (2)	\$ (3)	\$ (2)	\$ (2)	\$ (9)
Regulatory Settlements (see Note 4)	—	—	(135)	—	(135)
Impacts of the Tax Act (see Note 23)	—	—	—	226	226
Total	\$ (2)	\$ (3)	\$ (137)	\$ 224	\$ 82

FINANCIAL STATEMENTS

QUARTERLY FINANCIAL DATA

DUKE ENERGY OHIO

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Operating revenues	\$ 524	\$ 459	\$ 469	\$ 505	\$ 1,957
Operating (loss) income	(21)	77	139	93	288
Net (loss) income	(25)	46	100	55	176
2017					
Operating revenues	\$ 518	\$ 437	\$ 471	\$ 497	\$ 1,923
Operating income	82	64	101	73	320
Loss from discontinued operations, net of tax	—	—	(1)	—	(1)
Net income	42	30	55	65	192

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (3)	\$ (5)	\$ —	\$ (6)	\$ (14)
Sale of Retired Plant (see Note 3)	(107)	—	—	—	(107)
Severance Charges (see Note 20)	—	—	—	(6)	(6)
Impacts of the Tax Act (see Note 23)	—	—	—	(2)	(2)
Total	\$ (110)	\$ (5)	\$ —	\$ (14)	\$ (129)
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (1)	\$ (1)	\$ (2)	\$ (2)	\$ (6)
Impacts of the Tax Act (see Note 23)	—	—	—	23	23
Total	\$ (1)	\$ (1)	\$ (2)	\$ 21	\$ 17

DUKE ENERGY INDIANA

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Operating revenues	\$ 731	\$ 738	\$ 819	\$ 771	\$ 3,059
Operating income	168	169	173	133	643
Net income	100	98	119	76	393
2017					
Operating revenues	\$ 758	\$ 742	\$ 802	\$ 745	\$ 3,047
Operating income	184	208	228	166	786
Net income	91	106	121	36	354

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ —	\$ —	\$ (2)	\$ —	\$ (2)
Severance Charges (see Note 20)	—	—	—	(7)	(7)
Total	\$ —	\$ —	\$ (2)	\$ (7)	\$ (9)
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (1)	\$ (2)	\$ (2)	\$ (1)	\$ (6)
Impacts of the Tax Act (see Note 23)	—	—	—	(55)	(55)
Total	\$ (1)	\$ (2)	\$ (2)	\$ (56)	\$ (61)

FINANCIAL STATEMENTS

QUARTERLY FINANCIAL DATA

PIEDMONT

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Operating revenues	\$ 553	\$ 215	\$ 172	\$ 435	\$ 1,375
Operating income (loss)	161	5	(19)	79	226
Net income (loss)	110	(8)	(21)	48	129
2017					
Operating revenues	\$ 500	\$ 201	\$ 183	\$ 444	\$ 1,328
Operating income (loss)	170	5	(4)	126	297
Net income (loss)	95	(8)	(11)	63	139

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (6)	\$ (9)	\$ (11)	\$ (22)	\$ (48)
Severance Charges (see Note 20)	—	—	—	(2)	(2)
Total	\$ (6)	\$ (9)	\$ (11)	\$ (24)	\$ (50)
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (6)	\$ (13)	\$ (8)	\$ (19)	\$ (46)
Impacts of the Tax Act (see Note 23)	—	—	—	2	2
Total	\$ (6)	\$ (13)	\$ (8)	\$ (17)	\$ (44)

INDEPENDENT ACCOUNTANTS

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

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CONTROLS AND PROCEDURES

ITEM 9A. CONTROLS AND PROCEDURES

Disclosure Controls and Procedures

Disclosure controls and procedures are controls and other procedures that are designed to ensure that information required to be disclosed by the Duke Energy Registrants in the reports they file or submit under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified by the SEC rules and forms.

Disclosure controls and procedures include, without limitation, controls and procedures designed to provide reasonable assurance that information required to be disclosed by the Duke Energy Registrants in the reports they file or submit under the Exchange Act is accumulated and communicated to management, including the Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.

Under the supervision and with the participation of management, including the Chief Executive Officer and Chief Financial Officer, the Duke Energy Registrants have evaluated the effectiveness of their disclosure controls and procedures (as such term is defined in Rule 13a-15(e) and 15d-15(e) under the Exchange Act) as of December 31, 2018, and, based upon this evaluation, the Chief Executive Officer and Chief Financial Officer have concluded that these controls and procedures are effective in providing reasonable assurance of compliance.

Changes in Internal Control Over Financial Reporting

Under the supervision and with the participation of management, including the Chief Executive Officer and Chief Financial Officer, the Duke Energy Registrants have evaluated changes in internal control over financial reporting (as such term is defined in Rules 13a-15 and 15d-15 under the Exchange Act) that occurred during the fiscal quarter ended December 31, 2018, and have concluded no change has materially affected, or is reasonably likely to materially affect, internal control over financial reporting.

Management's Annual Report on Internal Control Over Financial Reporting

The Duke Energy Registrants' management is responsible for establishing and maintaining an adequate system of internal control over financial reporting, as such term is defined in Exchange Act Rules 13a-15(f) and 15d-15(f). The Duke Energy Registrants' internal control system was designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes, in accordance with generally accepted accounting principles in the United States. Due to inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness of the internal control over financial reporting to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with policies and procedures may deteriorate.

The Duke Energy Registrants' management, including their Chief Executive Officer and Chief Financial Officer, has conducted an evaluation of the effectiveness of their internal control over financial reporting as of December 31, 2018, based on the framework in the Internal Control – Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on that evaluation, management concluded that its internal controls over financial reporting were effective as of December 31, 2018.

Deloitte & Touche LLP, Duke Energy's independent registered public accounting firm, has issued an attestation report on the effectiveness of Duke Energy's internal control over financial reporting, which is included herein. This report is not applicable to the Subsidiary Registrants as these companies are not accelerated or large accelerated filers.

REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholders and the Board of Directors of Duke Energy Corporation

Opinion on Internal Control over Financial Reporting

We have audited the internal control over financial reporting of Duke Energy Corporation and subsidiaries (the "Company") as of December 31, 2018, based on criteria established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2018, based on criteria established in Internal Control - Integrated Framework (2013) issued by COSO.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated financial statements as of December 31, 2018, of the Company and our report dated February 28, 2019, expressed an unqualified opinion on those financial statements.

Basis for Opinion

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management's Annual Report on Internal Control Over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

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OTHER INFORMATION

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

Information regarding Duke Energy's Executive Officers is set forth in Part I, Item 1, "Business – Executive Officers of the Registrants," in this Annual Report on Form 10-K. Duke Energy will provide information that is responsive to the remainder of this Item 10 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 10 by reference.

ITEM 11. EXECUTIVE COMPENSATION

Duke Energy will provide information that is responsive to this Item 11 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 11 by reference.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

Equity Compensation Plan Information

The following table shows information as of December 31, 2018, about securities to be issued upon exercise of outstanding options, warrants and rights under Duke Energy's equity compensation plans, along with the weighted-average exercise price of the outstanding options, warrants and rights and the number of securities remaining available for future issuance under the plans.

Plan Category	Number of securities to be issued upon exercise of outstanding options, warrants and rights (a)	Weighted average exercise price of outstanding options, warrants and rights (b) ⁽¹⁾	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a)) (c)
Equity compensation plans approved by security holders	3,729,606 ⁽²⁾	n/a	6,080,741 ⁽³⁾
Equity compensation plans not approved by security holders	186,900 ⁽⁴⁾	n/a	n/a ⁽⁵⁾
Total	3,916,506	n/a	6,080,741

(1) As of December 31, 2018, no options were outstanding under equity compensation plans.

(2) Includes restricted stock units and performance shares (assuming the maximum payout level) granted under the Duke Energy Corporation 2015 Long-Term Incentive Plan, as well as shares that could be payable with respect to certain compensation deferred under the Executive Savings Plan or the Directors' Savings Plan.

(3) Includes shares remaining available for issuance pursuant to stock awards under the Duke Energy Corporation 2015 Long-Term Incentive Plan.

(4) Includes shares that could be payable with respect to certain compensation deferred under the Executive Savings Plan or and the Directors' Savings Plan, each of which is a non-qualified deferred compensation plan described in more detail below.

(5) The number of shares remaining available for future issuance under equity compensation plans not approved by security holders cannot be determined because it is based on the amount of future voluntary deferrals, if any, under the Executive Savings Plan and the Directors' Savings Plan.

Under the Executive Savings Plan, participants can elect to defer a portion of their base salary and short-term incentive compensation. Participants also receive a company matching contribution in excess of the contribution limits prescribed by the Internal Revenue Code under the Duke Energy Retirement Savings Plan, which is the 401(k) plan in which employees are generally eligible to participate. In general, payments are made following termination of employment or death in the form of a lump sum or installments, as selected by the participant. Participants may direct the deemed investment of base salary deferrals, short-term incentive compensation deferrals and matching contributions among investment options available under the Duke Energy Retirement Savings Plan, including the Duke Energy Common Stock Fund. Participants may change their investment elections on a daily basis. Deferrals of equity awards are credited with earnings and losses based on the performance of the Duke Energy Common Stock Fund. The benefits payable under the plan are unfunded and subject to the claims of Duke Energy's creditors.

Under the Directors' Savings Plan, outside directors may elect to defer all or a portion of their annual compensation, generally consisting of retainers. Deferred amounts are credited to an unfunded account, the balance of which is adjusted for the performance of phantom investment options, including the Duke Energy common stock fund, as elected by the director, and generally are paid when the director terminates his or her service from the Board of Directors.

Duke Energy will provide additional information that is responsive to this Item 12 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 12 by reference.

OTHER INFORMATION

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE

Duke Energy will provide information that is responsive to this Item 13 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 13 by reference.

ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

Deloitte provided professional services to the Duke Energy Registrants. The following tables present the Deloitte fees for services rendered to the Duke Energy Registrants during 2018 and 2017.

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Types of Fees								
Audit Fees ^(a)	\$ 14.0	\$ 5.0	\$ 5.5	\$ 3.3	\$ 2.2	\$ 0.9	\$ 1.4	\$ 0.8
Audit-Related Fees ^(b)	0.4	—	0.1	—	0.1	—	—	—
Tax Fees ^(c)	0.6	0.2	0.2	0.1	0.1	—	0.1	0.1
Other Fees ^(d)	—	—	—	—	—	—	—	—
Total Fees	\$ 15.0	\$ 5.2	\$ 5.8	\$ 3.4	\$ 2.4	\$ 0.9	\$ 1.5	\$ 0.9

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Types of Fees								
Audit Fees ^(a)	\$ 13.6	\$ 4.7	\$ 5.6	\$ 3.1	\$ 2.4	\$ 0.8	\$ 1.4	\$ 0.8
Audit-Related Fees ^(b)	0.2	—	—	—	—	—	—	—
Tax Fees ^(c)	1.7	0.6	0.1	0.4	—	0.1	0.1	0.1
Other Fees ^(d)	0.1	—	—	—	—	—	—	—
Total Fees	\$ 15.6	\$ 5.3	\$ 5.7	\$ 3.5	\$ 2.4	\$ 0.9	\$ 1.5	\$ 0.9

- (a) Audit Fees are fees billed, or expected to be billed, by Deloitte for professional services for the financial statement audits, audit of the Duke Energy Registrants' financial statements included in the Annual Report on Form 10-K, reviews of financial statements included in Quarterly Reports on Form 10-Q, and services associated with securities filings such as comfort letters and consents.
- (b) Audit-Related Fees are fees billed, or expected to be billed, by Deloitte for assurance and related services that are reasonably related to the performance of an audit or review of financial statements, including statutory reporting requirements.
- (c) Tax Fees are fees billed by Deloitte for tax return assistance and preparation, tax examination assistance and professional services related to tax planning and tax strategy.
- (d) Other Fees are billed by Deloitte for attendance at Deloitte-sponsored conferences and access to Deloitte research tools and subscription services.

To safeguard the continued independence of the independent auditor, the Audit Committee of Duke Energy adopted a policy that all services provided by the independent auditor require preapproval by the Audit Committee. Pursuant to the policy, certain audit services, audit-related services, tax services and other services have been specifically preapproved up to fee limits. In the event the cost of any of these services may exceed the fee limits, the Audit Committee must specifically approve the service. All services performed in 2018 and 2017 by the independent accountant were approved by the Audit Committee pursuant to the preapproval policy.

ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

- (a) Consolidated Financial Statements, Supplemental Financial Data and Supplemental Schedules included in Part II of this Annual Report are as follows:

Duke Energy Corporation

Consolidated Financial Statements
Consolidated Statements of Operations for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Statements of Comprehensive Income for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Balance Sheets as of December 31, 2018, and 2017
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, 2017 and 2016
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 26 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Carolinas, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Balance Sheets as of December 31, 2018, and 2017
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, 2017 and 2016
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 26 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Progress Energy, Inc.

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Balance Sheets as of December 31, 2018, and 2017
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, 2017 and 2016
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 26 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Progress, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Balance Sheets as of December 31, 2018, and 2017
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, 2017 and 2016
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 26 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Florida, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Balance Sheets as of December 31, 2018, and 2017
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, 2017 and 2016
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 26 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Ohio, Inc.

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Balance Sheets as of December 31, 2018, and 2017
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, 2017 and 2016
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 26 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Indiana, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Balance Sheets as of December 31, 2018, and 2017
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, 2017 and 2016
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 26 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Piedmont Natural Gas Company, Inc.

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2018, and 2017, Two Months Ended December 31, 2016, and the Year Ended October 31, 2016
Consolidated Balance Sheets as of December 31, 2018, and 2017
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, and 2017, Two Months Ended December 31, 2016, and the Year Ended October 31, 2016
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, and 2017, Two Months Ended December 31, 2016, and the Year Ended October 31, 2016
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 26 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

EXHIBITS

EXHIBIT INDEX

Exhibits filed herewithin are designated by an asterisk (*). All exhibits not so designated are incorporated by reference to a prior filing, as indicated. Items constituting management contracts or compensatory plans or arrangements are designated by a double asterisk (**). The Company agrees to furnish upon request to the Commission a copy of any omitted schedules or exhibits upon request on all items designated by a triple asterisk (***)

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
2.1	Agreement and Plan of Merger between Duke Energy Corporation, Diamond Acquisition Corporation and Progress Energy, Inc., dated as of January 8, 2011 (incorporated by reference to Exhibit 2.1 to Duke Energy Corporation's Current Report on Form 8-K filed on January 11, 2011, File No. 1-32853).	X							
2.2	Agreement and Plan of Merger between Piedmont Natural Gas Company, Duke Energy Corporation and Forest Subsidiary, Inc. (incorporated by reference to Exhibit 2.1 to Duke Energy Corporation's Current Report on Form 8-K filed on October 26, 2015, File No. 1-32853).	X							
3.1	Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 to Duke Energy Corporation's Current Report on Form 8-K filed on May 20, 2014, File No. 1-32853).	X							
3.2	Amended and Restated By-Laws of Duke Energy Corporation (incorporated by reference to Exhibit 3.1 to Duke Energy Corporation's Current Report on Form 8-K filed on January 4, 2016, File No. 1-32853).	X							
3.3	Articles of Organization including Articles of Conversion (incorporated by reference to Exhibit 3.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on April 7, 2006, File No. 1-4928).		X						
3.3.1	Amended Articles of Organization, effective October 1, 2006, (incorporated by reference to Exhibit 3.1 to Duke Energy Carolinas, LLC's Quarterly Report on Form 10-Q for the quarter ended September 30, 2006, filed on November 13, 2006, File No. 1-4928).		X						
3.4	Amended Articles of Incorporation of Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company), effective October 23, 1996, (incorporated by reference to Exhibit 3(a) to registrant's Quarterly Report on Form 10-Q for the quarter ended September 30, 1996, filed on November 13, 1996, File No. 1-1232).						X		
3.4.1	Amended Articles of Incorporation, effective September 19, 2006, (incorporated by reference to Exhibit 3.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Quarterly Report on Form 10-Q for the quarter ended September 30, 2006, filed on November 17, 2006, File No. 1-1232).						X		
3.5	Certificate of Conversion of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.1 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	

EXHIBITS

3.5.1	Articles of Entity Conversion of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).		X
3.5.2	Plan of Entity Conversion of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.3 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).		X
3.5.3	Articles of Organization of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.4 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).		X
3.5.4	Limited Liability Company Operating Agreement of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.5 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).		X
3.6	Limited Liability Company Operating Agreement of Duke Energy Carolinas, LLC (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on April 7, 2006, File No. 1-4928).	X	
3.7	Regulations of Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company), effective July 23, 2003, (incorporated by reference to Exhibit 3.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2003, filed on August 13, 2003, File No. 1-1232).		X
3.8	Articles of Organization including Articles of Conversion for Duke Energy Progress, LLC (incorporated by reference to Exhibit 3.1 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3382).	X	
3.8.1	Plan of Conversion of Duke Energy Progress, Inc. (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3382).	X	
3.8.2	Limited Liability Company Operating Agreement of Duke Energy Progress, LLC (incorporated by reference to Exhibit 3.3 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3382).	X	
3.9	Amended and Restated Articles of Incorporation of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective June 15, 2000, (incorporated by reference to Exhibit 3(a) (1) to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2000, filed on August 14, 2000, File No. 1-3382).	X	
3.9.1	Articles of Amendment to the Amended and Restated Articles of Incorporation of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective December 4, 2000, (incorporated by reference to Exhibit 3(b)(1) to registrant's Annual Report on Form 10-K for the year ended December 31, 2001, filed on March 28, 2002, File No. 1-3382).	X	
3.9.2	Articles of Amendment to the Amended and Restated Articles of Incorporation of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective May 10, 2006, (incorporated by reference to Exhibit 3(a) to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006, filed on August 9, 2006, File No. 1-15929).	X	

EXHIBITS

3.9.3	By-Laws of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective May 10, 2006, (incorporated by reference to Exhibit 3(b) to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006, filed on August 9, 2006, File No. 1-15929).	X	
3.10	Articles of Conversion for Duke Energy Florida, LLC (incorporated by reference to Exhibit 3.4 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).		X
3.10.1	Articles of Organization for Duke Energy Florida, LLC (incorporated by reference to Exhibit 3.5 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).		X
3.10.2	Plan of Conversion of Duke Energy Florida, Inc. (incorporated by reference to Exhibit 3.6 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).		X
3.10.3	Limited Liability Company Operating Agreement of Duke Energy Florida, LLC (incorporated by reference to Exhibit 3.7 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).		X
3.11	Amended and Restated Articles of Incorporation of Piedmont Natural Gas Company, Inc., dated as of October 3, 2016 (incorporated by reference to Exhibit 3.1 to registrant's Annual Report on Form 10-K for the fiscal year ended October 31, 2016, filed on December 22, 2016, File No. 001-06196).		X
3.11.1	Bylaws of Piedmont Natural Gas Company, Inc., as amended and restated effective October 3, 2016 (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on October 3, 2016, File No. 1-06196).		X
4.1	Indenture between Duke Energy Corporation and The Bank of New York Mellon Trust Company, N.A., as Trustee, dated as of June 3, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 16, 2008, File No. 1-32853).	X	
4.1.1	First Supplemental Indenture, dated as of June 16, 2008, (incorporated by reference to Exhibit 4.2 to Duke Energy Corporation's Current Report on Form 8-K filed on June 16, 2008, File No. 1-32853).	X	
4.1.2	Second Supplemental Indenture, dated as of January 26, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on January 26, 2009, File No. 1-32853).	X	
4.1.3	Third Supplemental Indenture, dated as of August 28, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on August 28, 2009, File No. 1-32853).	X	
4.1.4	Fourth Supplemental Indenture, dated as of March 25, 2010, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on March 25, 2010, File No. 1-32853).	X	
4.1.5	Fifth Supplemental Indenture, dated as of August 25, 2011, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on August 25, 2011, File No. 1-32853).	X	

EXHIBITS

4.1.6	Sixth Supplemental Indenture, dated as of November 17, 2011, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on November 17, 2011, File No. 1-32853).	X
4.1.7	Seventh Supplemental Indenture, dated as of August 16, 2012, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on August 16, 2012, File No. 1-32853).	X
4.1.8	Eighth Supplemental Indenture, dated as of January 14, 2013, (incorporated by reference to Exhibit 2 to the Registration Statement of Form 8-A of the Company filed on January 14, 2013, File No. 1-32853).	X
4.1.9	Ninth Supplemental Indenture, dated as of June 13, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 13, 2013, File No. 1-32853).	X
4.1.10	Tenth Supplemental Indenture, dated as of October 11, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on October 11, 2013, File No. 1-32853).	X
4.1.11	Eleventh Supplemental Indenture, dated as of April 4, 2014, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on April 4, 2014, File No. 1-32853).	X
4.1.12	Twelfth Supplemental Indenture, dated as of November 19, 2015, (incorporated by reference to Exhibit 4.2 to Duke Energy Corporation's Current Report on Form 8-K filed on November 19, 2015, File No. 1-32853).	X
4.1.13	Thirteenth Supplemental Indenture, dated as of April 18, 2016, to the indenture dated as of June 3, 2008, between Duke Energy Corporation and The Bank of New York Mellon Trust Company, N.A., as Trustee (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended March 31, 2016, filed on May 5, 2016, File No. 1-32853).	X
4.1.14	Fourteenth Supplemental Indenture, dated as of August 12, 2016, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 12, 2016, File No. 1-32853).	X
4.1.15	Fifteenth Supplemental Indenture, dated as of April 11, 2017 (incorporated by reference to Exhibit 4.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).	X
4.1.16	Sixteenth Supplemental Indenture, dated as of June 13, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2017 filed on August 3, 2017, File No. 1-32853).	X
4.1.17	Seventeenth Supplemental Indenture, dated as of August 10, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 10, 2017, File No. 1-32853).	X
4.1.18	Eighteenth Supplemental Indenture, dated as of March 29, 2018 (incorporated by reference to Exhibit 4.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2018 filed on May 10, 2018, File No. 1-32853).	X

EXHIBITS

4.1.19	Nineteenth Supplemental Indenture, dated as of May 16, 2018 (incorporated by reference to Exhibit 4.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2018 filed on August 2, 2018, File No. 1-32853).	X
4.1.20	Twentieth Supplemental Indenture (incorporated by reference to Exhibit 4.2 to registrant's Registration Statement on Form 8-A filed on September 17, 2018, File No. 1-32853).	X
4.2	Senior Indenture between Duke Energy Carolinas, LLC and The Bank of New York Mellon Trust Company, N.A., as successor trustee to JPMorgan Chase Bank (formerly known as The Chase Manhattan Bank), dated as of September 1, 1998, (incorporated by reference to Exhibit 4-D-1 to registrant's Post-Effective Amendment No. 2 to Registration Statement on Form S-3 filed on April 7, 1999, File No. 333-14209).	X
4.2.1	Fifteenth Supplemental Indenture, dated as of April 3, 2006, (incorporated by reference to Exhibit 4.4.1 to registrant's Registration Statement on Form S-3 filed on October 3, 2007, File No. 333-146483-03).	X
4.2.2	Sixteenth Supplemental Indenture, dated as of June 5, 2007, (incorporated by reference to Exhibit 4.1 registrant's Current Report on Form 8-K filed on June 6, 2007, File No. 1-4928).	X
4.3	First and Refunding Mortgage from Duke Energy Carolinas, LLC to The Bank of New York Mellon Trust Company, N.A., successor trustee to Guaranty Trust Company of New York, dated as of December 1, 1927, (incorporated by reference to Exhibit 7(a) to registrant's Form S-1, effective October 15, 1947, File No. 2-7224).	X
4.3.1	Instrument of Resignation, Appointment and Acceptance among Duke Energy Carolinas, LLC, JPMorgan Chase Bank, N.A., as Trustee, and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of September 24, 2007, (incorporated by reference to Exhibit 4.6.1 to registrant's Registration Statement on Form S-3 filed on October 3, 2007, File No. 333-146483).	X
4.3.2	Ninth Supplemental Indenture, dated as of February 1, 1949, (incorporated by reference to Exhibit 7(j) to registrant's Form S-1 filed on February 3, 1949, File No. 2-7808).	X
4.3.3	Twentieth Supplemental Indenture, dated as of June 15, 1964, (incorporated by reference to Exhibit 4-B-20 to registrant's Form S-1 filed on August 23, 1966, File No. 2-25367).	X
4.3.4	Twenty-third Supplemental Indenture, dated as of February 1, 1968, (incorporated by reference to Exhibit 2-B-26 to registrant's Form S-9 filed on January 21, 1969, File No. 2-31304).	X
4.3.5	Sixtieth Supplemental Indenture, dated as of March 1, 1990, (incorporated by reference to Exhibit 4-B-61 to registrant's Annual Report on Form 10-K for the year ended December 31, 1990, File No.1-4928).	X

EXHIBITS

4.3.6	Sixty-third Supplemental Indenture, dated as of July 1, 1991, (incorporated by reference to Exhibit 4-B-64 to registrant's Registration Statement on Form S-3 filed on February 13, 1992, File No. 33-45501).	X
4.3.7	Eighty-fourth Supplemental Indenture, dated as of March 20, 2006, (incorporated by reference to Exhibit 4.6.9 to registrant's Registration Statement on Form S-3 filed on October 3, 2007, File No. 333-146483-03).	X
4.3.8	Eighty-fifth Supplemental Indenture, dated as of January 10, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on January 11, 2008, File No.1-4928).	X
4.3.9	Eighty-seventh Supplemental Indenture, dated as of April 14, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on April 15, 2008, File No.1-4928).	X
4.3.10	Eighty-eighth Supplemental Indenture, dated as of November 17, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on November 20, 2008, File No.1-4928).	X
4.3.11	Ninetieth Supplemental Indenture, dated as of November 19, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on November 19, 2009, File No.1-4928).	X
4.3.12	Ninety-first Supplemental Indenture, dated as of June 7, 2010, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on June 7, 2010, File No.1-4928).	X
4.3.13	Ninety-third Supplemental Indenture, dated as of May 19, 2011, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on May 19, 2011, File No.1-4928).	X
4.3.14	Ninety-fourth Supplemental Indenture, dated as of December 8, 2011, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on December 8, 2011, File No.1-4928).	X
4.3.15	Ninety-fifth Supplemental Indenture, dated as of September 21, 2012, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on September 21, 2012, File No.1-4928).	X
4.3.16	Ninety-sixth Supplemental Indenture, dated as of March 12, 2015, between Duke Energy Carolinas, LLC and The Bank of New York Mellon Trust Company, N.A., as Trustee (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on March 12, 2015, File No. 1-4928).	X
4.3.17	Ninety-seventh Supplemental Indenture, dated as of March 11, 2016, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on March 11, 2016, File No. 1-4928).	X
4.3.18	Ninety-eighth Supplemental Indenture, dated as of November 17, 2016, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on November 17, 2016, File No. 1-4928).	X

EXHIBITS

4.3.19	Ninety-ninth Supplemental Indenture, dated as of November 14, 2017, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC Current Report on Form 8-K filed on November 14, 2017, File No. 1-4928).	X
4.3.20	One Hundredth Supplemental Indenture, dated as of March 1, 2018 (incorporated by reference to Exhibit 4.1 to Registrant's Current Report on Form 8-K filed on March 1, 2018, File No. 1-4928).	X
4.4	Mortgage and Deed of Trust between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and The Bank of New York Mellon (formerly Irving Trust Company) and Frederick G. Herbst (Tina D. Gonzalez, successor), as Trustees, dated as of May 1, 1940.	X
4.4.1	First through Fifth Supplemental Indentures thereto (incorporated by reference to Exhibit 2(b), File No. 2-64189).	X
4.4.2	Sixth Supplemental Indenture dated April 1, 1960 (incorporated by reference to Exhibit 2(b)-5, File No. 2-16210).	X
4.4.3	Seventh Supplemental Indenture dated November 1, 1961 (incorporated by reference to Exhibit 2(b)-6, File No. 2-16210).	X
4.4.4	Eighth Supplemental Indenture dated July 1, 1964 (incorporated by reference to Exhibit 4(b)-8, File No. 2-19118).	X
4.4.5	Ninth Supplemental Indenture dated April 1, 1966 (incorporated by reference to Exhibit 4(b)-2, File No. 2-22439).	X
4.4.6	Tenth Supplemental Indenture dated October 1, 1967 (incorporated by reference to Exhibit 4(b)-2, File No. 2-24624).	X
4.4.7	Eleventh Supplemental Indenture dated October 1, 1968 (incorporated by reference to Exhibit 2(c), File No. 2-27297).	X
4.4.8	Twelfth Supplemental Indenture dated January 1, 1970 (incorporated by reference to Exhibit 2(c), File No. 2-30172).	X
4.4.9	Thirteenth Supplemental Indenture dated August 1, 1970 (incorporated by reference to Exhibit 2(c), File No. 2-35694).	X
4.4.10	Fourteenth Supplemental Indenture dated January 1, 1971 (incorporated by reference to Exhibit 2(c), File No. 2-37505).	X
4.4.11	Fifteenth Supplemental Indenture dated October 1, 1971 (incorporated by reference to Exhibit 2(c), File No. 2-39002).	X
4.4.12	Sixteenth Supplemental Indenture dated May 1, 1972 (incorporated by reference to Exhibit 2(c), File No. 2-41738).	X
4.4.13	Seventeenth Supplemental Indenture dated November 1, 1973 (incorporated by reference to Exhibit 2(c), File No. 2-43439).	X
4.4.14	Eighteenth Supplemental Indenture dated (incorporated by reference to Exhibit 2(c), File No. 2-47751).	X
4.4.15	Nineteenth Supplemental Indenture dated May 1, 1974 (incorporated by reference to Exhibit 2(c), File No. 2-49347).	X

EXHIBITS

4.4.16	Twentieth Supplemental Indenture dated December 1, 1974 (incorporated by reference to Exhibit 2(c), File No. 2-53113).	X
4.4.17	Twenty-first Supplemental Indenture dated April 15, 1975 (incorporated by reference to Exhibit 2(d), File No. 2-53113).	X
4.4.18	Twenty-second Supplemental Indenture dated October 1, 1977 (incorporated by reference to Exhibit 2(c), File No. 2-59511).	X
4.4.19	Twenty-third Supplemental Indenture dated June 1, 1978 (incorporated by reference to Exhibit 2(c), File No. 2-61611).	X
4.4.20	Twenty-fourth Supplemental Indenture dated May 15, 1979 (incorporated by reference to Exhibit 2(d), File No. 2-64189).	X
4.4.21	Twenty-fifth Supplemental Indenture dated November 1, 1979 (incorporated by reference to Exhibit 2(c), File No. 2-65514).	X
4.4.22	Twenty-sixth Supplemental Indenture dated November 1, 1979 (incorporated by reference to Exhibit 2(c), File No. 2-66851).	X
4.4.23	Twenty-seventh Supplemental Indenture dated April 1, 1980 (incorporated by reference to Exhibit 2 (d), File No. 2-66851).	X
4.4.24	Twenty-eighth Supplemental Indenture dated October 1, 1980 (incorporated by reference to Exhibit 4(b)-1, File No. 2-81299).	X
4.4.25	Twenty-ninth Supplemental Indenture dated October 1, 1980 (incorporated by reference to Exhibit 4(b)-2, File No. 2-81299).	X
4.4.26	Thirtieth Supplemental Indenture dated December 1, 1982 (incorporated by reference to Exhibit 4(b)- 3, File No. 2-81299).	X
4.4.27	Thirty-first Supplemental Indenture dated March 15, 1983 (incorporated by reference to Exhibit 4(c)-1, File No. 2-95505).	X
4.4.28	Thirty-second Supplemental Indenture dated March 15, 1983 (incorporated by reference to Exhibit 4(c)-2, File No. 2-95505).	X
4.4.29	Thirty-third Supplemental Indenture dated December 1, 1983 (incorporated by reference to Exhibit 4(c)-3, File No. 2-95505).	X
4.4.30	Thirty-fourth Supplemental Indenture dated December 15, 1983 (incorporated by reference to Exhibit 4(c)-4, File No. 2-95505).	X
4.4.31	Thirty-fifth Supplemental Indenture dated April 1, 1984 (incorporated by reference to Exhibit 4(c)-5, File No. 2-95505).	X
4.4.32	Thirty-sixth Supplemental Indenture dated June 1, 1984 (incorporated by reference to Exhibit 4(c)-6, File No. 2-95505).	X
4.4.33	Thirty-seventh Supplemental Indenture dated June 1, 1984 (incorporated by reference to Exhibit 4(c)-7, File No. 2-95505).	X
4.4.34	Thirty-eighth Supplemental Indenture dated June 1, 1984 (incorporated by reference to Exhibit 4(c)- 8, File No. 2-95505).	X
4.4.35	Thirty-ninth Supplemental Indenture dated April 1, 1985 (incorporated by reference to Exhibit 4(b), File No. 33-25560).	X

EXHIBITS

4.4.36	Fortieth Supplemental Indenture dated October 1, 1985 (incorporated by reference to Exhibit 4(c), File No. 33-25560).	X
4.4.37	Forty-first Supplemental Indenture dated March 1, 1986 (incorporated by reference to Exhibit 4(d), File No. 33-25560).	X
4.4.38	Forty-second Supplemental Indenture dated July 1, 1986 (incorporated by reference to Exhibit 4(e), File No. 33-25560).	X
4.4.39	Forty-third Supplemental Indenture dated January 1, 1987 (incorporated by reference to Exhibit 4(f), File No. 33-25560).	X
4.4.40	Forty-fourth Supplemental Indenture dated December 1, 1987 (incorporated by reference to Exhibit 4(g), File No. 33-25560).	X
4.4.41	Forty-fifth supplemental Indenture dated September 1, 1988 (incorporated by reference to Exhibit 4(h), File No. 33-25560).	X
4.4.42	Forty-sixth Supplemental Indenture dated April 1, 1989 (incorporated by reference to Exhibit 4(b), File No. 33-33431).	X
4.4.43	Forty-seventh Supplemental Indenture dated August 1, 1989 (incorporated by reference to Exhibit 4(c), File No. 33-33431).	X
4.4.44	Forty-eighth Supplemental Indenture dated November 15, 1990 (incorporated by reference to Exhibit 4(b), File No. 33-38298).	X
4.4.45	Forty-ninth Supplemental Indenture dated November 15, 1990 (incorporated by reference to Exhibit 4(c), File No. 33-38298).	X
4.4.46	Fiftieth Supplemental Indenture dated February 15, 1991 (incorporated by reference to Exhibit 4(h), File No. 33-42869).	X
4.4.47	Fifty-first Supplemental Indenture dated April 1, 1991 (incorporated by reference to Exhibit 4(i), File No. 33-42869).	X
4.4.48	Fifty-second Supplemental Indenture dated September 15, 1991 (incorporated by reference to Exhibit 4(e), File No. 33-48607).	X
4.4.49	Fifty-third Supplemental Indenture dated January 1, 1992 (incorporated by reference to Exhibit 4(f), File No. 33-48607).	X
4.4.50	Fifty-fourth Supplemental Indenture dated April 15, 1992 (incorporated by reference to Exhibit 4 (g), File No. 33-48607).	X
4.4.51	Fifty-fifth Supplemental Indenture dated July 1, 1992 (incorporated by reference to Exhibit 4(e), File No. 33-55060).	X
4.4.52	Fifty-sixth Supplemental Indenture dated October 1, 1992 (incorporated by reference to Exhibit 4(f), File No. 33-55060).	X
4.4.53	Fifty-seventh Supplemental Indenture dated February 1, 1993 (incorporated by reference to Exhibit 4(e), File No. 33-60014).	X
4.4.54	Fifty-eighth Supplemental Indenture dated March 1, 1993 (incorporated by reference to Exhibit 4(f), File No. 33-60014).	X
4.4.55	Fifty-ninth Supplemental Indenture dated July 1, 1993 (incorporated by reference to Exhibit 4(a) to Post-Effective Amendment No. 1, File No. 33-38349).	X

EXHIBITS

4.4.56	Sixtieth Supplemental Indenture dated July 1, 1993 (incorporated by reference to Exhibit 4(b) to Post-Effective Amendment No. 1, File No. 33-38349).	X
4.4.57	Sixty-first Supplemental Indenture dated August 15, 1993 (incorporated by reference to Exhibit 4(e), File No. 33-50597).	X
4.4.58	Sixty-second Supplemental Indenture dated January 15, 1994 (incorporated by reference to Exhibit 4 to Duke Energy Progress' Current Report on Form 8-K dated January 19, 1994, File No. 1-3382).	X
4.4.59	Sixty-third Supplemental Indenture dated May 1, 1994 (incorporated by reference to Exhibit 4(f) for Duke Energy Progress' Form S-3, File No. 033-57835).	X
4.4.60	Sixty-fourth Supplemental Indenture dated August 15, 1997 (incorporated by reference to Exhibit to Duke Energy Progress' Current Report on Form 8-K dated August 26, 1997, File No. 1-3382).	X
4.4.61	Sixty-fifth Supplemental Indenture dated April 1, 1998 (incorporated by reference to Exhibit 4(b) for Duke Energy Progress' Registration Statement on Form S-3 filed December 18, 1998, File No. 333-69237).	X
4.4.62	Sixty-sixth Supplemental Indenture dated March 1, 1999 (incorporated by reference to Exhibit 4(c) to Duke Energy Progress' Current Report on Form 8-K dated March 19, 1999, File No. 1-3382).	X
4.4.63	Form of Carolina Power & Light Company First Mortgage Bond, 6.80% Series Due August 15, 2007 (incorporated by reference to Exhibit 4 to Duke Energy Progress' Form 10-Q for the period ended September 30, 1998, File No. 1-3382).	X
4.4.64	Sixty-eighth Supplemental Indenture dated April 1, 2000 (incorporated by reference to Exhibit No. 4(b) to Duke Energy Progress' Current Report on Form 8-K dated April 20, 2000, File No. 1-3382).	X
4.4.65	Sixty-ninth Supplemental Indenture dated June 1, 2000 (incorporated by reference to Exhibit No. 4b(2) to Duke Energy Progress' Annual Report on Form 10-K dated March 29, 2001, File No. 1-3382).	X
4.4.66	Seventieth Supplemental Indenture dated July 1, 2000 (incorporated by reference to Exhibit 4b(3) to Duke Energy Progress' Annual Report on Form 10-K dated March 29, 2001, File No. 1-3382).	X
4.4.67	Seventy-first Supplemental Indenture dated February 1, 2002 (incorporated by reference to Exhibit 4b(2) to Duke Energy Progress' Annual Report on Form 10-K dated March 28, 2002, File No. 1-3382 and 1-15929).	X
4.4.68	Seventy-second Supplemental Indenture, dated as of September 1, 2003, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on September 12, 2003, File No. 1-3382).	X

EXHIBITS

4.4.69	Seventy-third Supplemental Indenture, dated as of March 1, 2005, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on March 22, 2005, File No. 1-3382).	X
4.4.70	Seventy-fourth Supplemental Indenture, dated as of November 1, 2005, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on November 30, 2005, File No. 1-3382).	X
4.4.71	Seventy-fifth Supplemental Indenture, dated as of March 1, 2008, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on March 13, 2008, File No. 1-3382).	X
4.4.72	Seventy-sixth Supplemental Indenture, dated as of January 1, 2009, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on January 15, 2009, File No. 1-3382).	X
4.4.73	Seventy-seventh Supplemental Indenture, dated as of June 18, 2009, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on June 23, 2009, File No. 1-3382).	X
4.4.74	Seventy-eighth Supplemental Indenture, dated as of September 1, 2011, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on September 15, 2011, File No. 1-3382).	X
4.4.75	Seventy-ninth Supplemental Indenture, dated as of May 1, 2012, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on May 18, 2012, File No. 1-3382).	X
4.4.76	Eightieth Supplemental Indenture, dated as of March 1, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on March 12, 2013, File No. 1-3382).	X
4.4.77	Eighty-second Supplemental Indenture, dated as of March 1, 2014, between the Company and The Bank of New York Mellon (formerly Irving Trust Company) and Tina D. Gonzalez (successor to Frederick G. Herbst) and forms of global notes (incorporated by reference to Exhibit 4.1 to Duke Energy Progress, Inc.'s Current Report on Form 8-K filed on March 6, 2014, File No. 1-3382).	X

EXHIBITS

4.4.78	Eighty-third Supplemental Indenture, dated as of November 1, 2014, between the Company and The Bank of New York Mellon (formerly Irving Trust Company) and Tina D. Gonzalez (successor to Frederick G. Herbst) and forms of global notes (incorporated by reference to Exhibit 4.1 to Duke Energy Progress, Inc.'s Current Report on Form 8-K filed on November 20, 2014, File No. 1-3382).	X
4.4.79	Eighty-fifth Supplemental Indenture, dated as of August 1, 2015, (incorporated by reference to Exhibit 4.1 to Duke Energy Progress, LLC's Current Report on Form 8-K filed on August 13, 2015, File No. 1-3382).	X
4.4.80	Eighty-sixth Supplemental Indenture, dated as of September 1, 2016, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 16, 2016, File No. 1-15929).	X
4.4.81	Eighty-seventh Supplemental Indenture, dated as of September 1, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 8, 2017, File No. 1-3382).	X
4.5	Indenture (for Debt Securities) between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and The Bank of New York Mellon (successor in interest to The Chase Manhattan Bank), as Trustee (incorporated by reference to Exhibit 4(a) to registrant's Current Report on Form 8-K filed on November 5, 1999, File No. 1-3382).	X
4.6	Indenture (for [Subordinated] Debt Securities) (open ended) (incorporated by reference to Exhibit 4(a)(2) to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Registration Statement on Form S-3 filed on November 18, 2008, File No. 333-155418).	X
4.7	Indenture (for First Mortgage Bonds) between Duke Energy Florida, Inc. (formerly Florida Power Corporation) and The Bank of New York Mellon (as successor to Guaranty Trust Company of New York and The Florida National Bank of Jacksonville), as Trustee, dated as of January 1, 1944, (incorporated by reference to Exhibit B-18 to registrant's Form A-2, File No. 2-5293).	X
4.7.1	Seventh Supplemental Indenture (incorporated by reference to Exhibit 4(b) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 27, 1991, File No. 33-16788).	X
4.7.2	Eighth Supplemental Indenture (incorporated by reference to Exhibit 4(c) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 27, 1991, File No. 33-16788).	X
4.7.3	Sixteenth Supplemental Indenture (incorporated by reference to Exhibit 4(d) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 27, 1991, File No. 33-16788).	X

EXHIBITS

4.7.4	Twenty-ninth Supplemental Indenture (incorporated by reference to Exhibit 4(c) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 17, 1982, File No. 2-79832).	X
4.7.5	Thirty-eighth Supplemental Indenture, dated as of July 25, 1994, (incorporated by reference to exhibit 4(f) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on August 29, 1994, File No. 33-55273).	X
4.7.6	Forty-first Supplemental Indenture, dated as of February 1, 2003, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Duke Energy Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on February 21, 2003, File No. 1-3274).	X
4.7.7	Forty-second Supplemental Indenture, dated as of April 1, 2003, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Quarterly Report on Form 10-Q for the quarter ended June 30, 2003, filed on August 11, 2003, File No. 1-3274).	X
4.7.8	Forty-third Supplemental Indenture, dated as of November 1, 2003, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on November 21, 2003, File No. 1-3274).	X
4.7.9	Forty-fourth Supplemental Indenture, dated as of August 1, 2004, (incorporated by reference to Exhibit 4(m) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Annual Report on Form 10-K for the year ended December 31, 2004, filed on March 16, 2005, File No. 1-3274).	X
4.7.10	Forty-sixth Supplemental Indenture, dated as of September 1, 2007, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on September 19, 2007, File No. 1-3274).	X
4.7.11	Forty-seventh Supplemental Indenture, dated as of December 1, 2007, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on December 13, 2007, File No. 1-3274).	X
4.7.12	Forty-eighth Supplemental Indenture, dated as of June 1, 2008, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on June 18, 2008, File No. 1-3274).	X
4.7.13	Forty-ninth Supplemental Indenture, dated as of March 1, 2010, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on March 25, 2010, File No. 1-3274).	X

EXHIBITS

4.7.14	Fiftieth Supplemental Indenture, dated as of August 11, 2011, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on August 18, 2011, File No. 1-3274).	X
4.7.15	Fifty-first Supplemental Indenture, dated as of November 1, 2012, (incorporated by reference to Exhibit 4.1 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on November 20, 2012, File No. 1-3274).	X
4.7.16	Fifty-third Supplemental Indenture, dated as of September 1, 2016, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 9, 2016, File No. 1-03274).	X
4.7.17	Fifty-fifth Supplemental Indenture, dated as of June 1, 2018, (incorporated by reference to Exhibit 4.1 to Registrant's Current Report on Form 8-K filed on June 21, 2018, File No. 1-3274).	X
4.8	Indenture (for Debt Securities) between Duke Energy Florida, Inc. (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) and The Bank of New York Mellon Trust Company, National Association (successor in interest to J.P. Morgan Trust Company, National Association), as Trustee, dated as of December 7, 2005, (incorporated by reference to Exhibit 4(a) to registrant's Current Report on Form 8-K filed on December 13, 2005, File No. 1-3274).	X
4.8.1	First Supplemental Indenture, dated as of December 12, 2017, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on December 12, 2017, File No. 1-03274).	X
4.9	Indenture (for [Subordinated] Debt Securities) (open ended) (incorporated by reference to Exhibit 4(a)(2) Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Registration Statement on Form S-3 filed on November 18, 2008, File No. 333-155418).	X
4.10	Original Indenture (Unsecured Debt Securities) between Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company) and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of May 15, 1995, (incorporated by reference to Exhibit 3 to registrant's Form 8-A filed on July 27, 1995, File No. 1-1232).	X
4.10.1	First Supplemental Indenture, dated as of June 1, 1995, (incorporated by reference to Exhibit 4 B to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Quarterly Report on Form 10-Q for the quarter ended June 30, 1995, filed on August 11, 1995, File No. 1-1232).	X
4.10.2	Seventh Supplemental Indenture, dated as of June 15, 2003, (incorporated by reference to Exhibit 4.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Quarterly Report on Form 10-Q for the quarter ended June 30, 2003, filed on August 13, 2003, File No. 1-1232).	X

EXHIBITS

4.11	Original Indenture (First Mortgage Bonds) between Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company) and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of August 1, 1936, (incorporated by reference to an exhibit to registrant's Registration Statement No. 2-2374).	X
4.11.1	Fortieth Supplemental Indenture, dated as of March 23, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Current Report on Form 8-K filed on March 24, 2009, File No. 1-1232).	X
4.11.2	Forty-second Supplemental Indenture, dated as of September 6, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Current Report on Form 8-K filed on September 6, 2013, File No. 1-1232).	X
4.11.3	Forty-fourth Supplemental Indenture, dated as of June 23, 2016, (incorporated by reference to Exhibit 4.1 registrant's Current Report on Form 8-K filed on June 23, 2016, File No. 1-1232).	X
4.11.4	Forty-fifth Supplemental Indenture, dated as of March 27, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on March 27, 2017, File No. 1-01232).	X
4.11.5	Forty-sixth Supplemental Indenture, dated as of January 8, 2019, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on January 8, 2019, File No. 1-1232).	X
4.12	Indenture between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of November 15, 1996, (incorporated by reference to Exhibit 4(v) to the Cinergy Corp. Form 10-K for the year ended December 31, 1996, filed on March 27, 1997, File No. 1-11377).	X
4.12.1	Third Supplemental Indenture, dated as of March 15, 1998, (incorporated by reference to Exhibit 4-w to Cinergy Corp.'s Annual Report on Form 10-K for the year ended December 31, 1997, filed on March 27, 1998, File No. 1-11377).	X
4.12.2	Eighth Supplemental Indenture, dated as of September 23, 2003, (incorporated by reference to Exhibit 4.2 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Quarterly Report on Form 10-Q for the quarter ended September 30, 2003, filed on November 13, 2003, File No. 1-3543).	X
4.12.3	Ninth Supplemental Indenture, dated as of October 21, 2005, (incorporated by reference to Exhibit 4.7.3 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633).	X

EXHIBITS

4.12.4	Tenth Supplemental Indenture, dated as of June 9, 2006, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on June 15, 2006, File No. 1-3543).	X
4.13	Original Indenture (First Mortgage Bonds) between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Deutsche Bank National Trust Company, as Successor Trustee, dated as of September 1, 1939, (filed as an exhibit in File No. 70-258).	X
4.13.1	Tenth Supplemental Indenture, dated as of July 1, 1952, (filed as an exhibit in File No. 2-9687).	X
4.13.2	Twenty-third Supplemental Indenture, dated as of January 1, 1977, (filed as an exhibit in File No. 2-57828).	X
4.13.3	Twenty-fifth Supplemental Indenture, dated as of September 1, 1978, (filed as an exhibit in File No. 2-62543).	X
4.13.4	Twenty-sixth Supplemental Indenture, dated as of September 1, 1978, (filed as an exhibit in File No. 2-62543).	X
4.13.5	Thirtieth Supplemental Indenture, dated as of August 1, 1980, (filed as an exhibit in File No. 2-68562).	X
4.13.6	Thirty-fifth Supplemental Indenture, dated as of March 30, 1984, (filed as an exhibit to registrant's Annual Report on Form 10-K for the year ended December 31, 1984, File No. 1-3543).	X
4.13.7	Forty-sixth Supplemental Indenture, dated as of June 1, 1990, (filed as an exhibit to registrant's Annual Report on Form 10-K for the year ended December 31, 1991, File No. 1-3543).	X
4.13.8	Forty-seventh Supplemental Indenture, dated as of July 15, 1991, (filed as an exhibit to registrant's Annual Report on Form 10-K for the year ended December 31, 1991, File No. 1-3543).	X
4.13.9	Forty-eighth Supplemental Indenture, dated as of July 15, 1992, (filed as an exhibit to registrant's Annual Report on Form 10-K for the year ended December 31, 1992, File No. 1-3543).	X
4.13.10	Fifty-second Supplemental Indenture, dated as of April 30, 1999, (incorporated by reference to Exhibit 4 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Quarterly Report on Form 10-Q for the quarter ended March 31, 1999, filed on May 13, 1999, File No. 1-3543).	X
4.13.11	Fifty-seventh Supplemental Indenture, dated as of August 21, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report Form 8-K filed on August 21, 2008, File No. 1-3543).	X
4.13.12	Fifty-eighth Supplemental Indenture, dated as of December 19, 2008, (incorporated by reference to Exhibit 4.8.12 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633-02).	X

EXHIBITS

4.13.13	Fifty-ninth Supplemental Indenture, dated as of March 23, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on March 24, 2009, File No. 1-3543).	X
4.13.14	Sixtieth Supplemental Indenture, dated as of June 1, 2009, (incorporated by reference to Exhibit 4.8.14 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633-02).	X
4.13.15	Sixty-first Supplemental Indenture, dated as of October 1, 2009, (incorporated by reference to Exhibit 4.8.15 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633-02).	X
4.13.16	Sixty-second Supplemental Indenture, dated as of July 9, 2010, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on July 9, 2010, File No. 1-3543).	X
4.13.17	Sixty-third Supplemental Indenture, dated as of September 23, 2010, (incorporated by reference to Exhibit 4.8.17 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633-02).	X
4.13.18	Sixty-fourth Supplemental Indenture, dated as of December 1, 2011, (incorporated by reference to Exhibit 4(d)(2)(xviii) to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 30, 2013, File No. 333-191462-03).	X
4.13.19	Sixty-fifth Supplemental Indenture, dated as of March 15, 2012, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on March 15, 2012, File No. 1-3543).	X
4.13.20	Sixty-sixth Supplemental Indenture, dated as of July 11, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on July 11, 2013, File No. 1-3543).	X
4.13.21	Sixty-seventh Supplemental Indenture, dated as of January 1, 2016, between Duke Energy Indiana, Inc. and Deutsche Bank National Trust Company, as Trustee, supplementing and amending the Indenture of Mortgage or Deed of Trust, dated September 1, 1939, between Duke Energy Indiana, Inc. and Deutsche Bank National Trust Company, as Trustee (incorporated by reference to Exhibit 4.2 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Quarterly Report on Form 10-Q for the quarter ended March 31, 2016, filed on May 5, 2016, File No. 1-3543).	X
4.13.22	Sixty-eighth Supplemental Indenture, dated as of May 12, 2016, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on May 12, 2016, File No. 1-3543).	X

EXHIBITS

4.14	Repayment Agreement between Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company) and The Dayton Power and Light Company, dated as of December 23, 1992, (filed with registrant's Annual Report on Form 10-K for the year ended December 31, 1992, File No. 1-1232).	X
4.15	Unsecured Promissory Note between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and the Rural Utilities Service, dated as of October 14, 1998, (incorporated by reference to Exhibit 4 to registrant's Annual Report on Form 10-K for the year ended December 31, 1998, filed on March 8, 1999, File No. 1-3543).	X
4.16	6.302% Subordinated Note between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Cinergy Corp., dated as of February 5, 2003, (incorporated by reference to Exhibit 4(yyy) to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2003, filed on May 12, 2003, File No. 1-3543).	X
4.17	6.403% Subordinated Note between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Cinergy Corp., dated as of February 5, 2003, (incorporated by reference to Exhibit 4(zzz) to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2003, filed on May 12, 2003, File No. 1-3543).	X
4.18	Contingent Value Obligation Agreement between Progress Energy, Inc. (formerly CP&L Energy, Inc.) and The Chase Manhattan Bank, as Trustee, dated as of November 30, 2000, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on December 1, 2000, File No. 1-3382).	X
4.19	Form of 3.47% Series A Senior Notes due July 16, 2027 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on March 29, 2012, File No. 1-06196).	X
4.20	Form of 3.57% Series B Senior Notes due July 16, 2027 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on March 29, 2012, File No. 1-06196).	X
4.21	Form of 4.65% Senior Notes due 2043 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on August 1, 2013, File No. 1-06196).	X
4.22	Form of 4.10% Senior Notes due 2034 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on September 18, 2014, File No. 1-06196).	X
4.23	Form of 3.60% Senior Notes due 2025 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on September 14, 2015, File No. 1-06196).	X
4.24	Form of 3.64% Senior Notes due 2046 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on July 28, 2016, File No. 1-06196).	X

EXHIBITS

4.25	Form of 4.24% Series B Senior Notes due June 6, 2021 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on May 12, 2011, File No. 1-06196).	X
4.26	Indenture, dated as of April 1, 1993, between Piedmont and The Bank of New York Mellon Trust Company, N.A. (as successor to Citibank, N.A.), Trustee (incorporated by reference to Exhibit 4.1 to registrant's Registration Statement on Form S-3 filed on May 16, 1995, File No. 33-59369).	X
4.26.1	Second Supplemental Indenture, dated as of June 15, 2003, between Piedmont and Citibank, N.A., Trustee (incorporated by reference to Exhibit 4.3 to registrant's Registration Statement on Form S-3 filed on June 19, 2003, File No. 333-106268).	X
4.26.2	Fourth Supplemental Indenture, dated as of May 6, 2011, between Piedmont Natural Gas Company, Inc. and The Bank of New York Mellon Trust Company, N.A., as trustee (incorporated by reference to Exhibit 4.2 to registrant's Registration Statement on Form S-3-ASR filed on July 7, 2011, File No. 333-175386).	X
4.26.3	Fifth Supplemental Indenture, dated August 1, 2013, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 1, 2013, File No. 1-06196).	X
4.26.4	Sixth Supplemental Indenture, dated September 18, 2014, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 18, 2014, File No. 1-06196).	X
4.26.5	Seventh Supplemental Indenture, dated September 14, 2015, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 14, 2015, File No. 1-06196).	X
4.26.6	Eighth Supplemental Indenture, dated July 28, 2016, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on July 28, 2016, File No. 1-06196).	X
4.27	Medium-Term Note, Series A, dated as of October 6, 1993 (incorporated by reference to Exhibit 4.8 to registrant's Annual Report on Form 10-K for the year ended October 31, 1993, File No. 1-06196).	X
4.28	Medium-Term Note, Series A, dated as of September 19, 1994 (incorporated by reference to Exhibit 4.9 to registrant's Annual Report on Form 10-K for the year ended October 31, 1994, File No. 1-06196).	X
4.29	Form of 6% Medium-Term Note, Series E, dated as of December 19, 2003 (incorporated by reference to Exhibit 99.2 to registrant's Current Report on Form 8-K filed on December 23, 2003, File No. 1-06196).	X
4.30	Form of Master Global Note (incorporated by reference to Exhibit 4.4 to registrant's Registration Statement on Form S-3 filed on April 30, 1997, File No. 333-26161).	X

EXHIBITS

4.31	Pricing Supplement of Medium-Term Notes, Series B, dated October 3, 1995 (incorporated by reference to Exhibit 4.10 to registrant's Annual Report on Form 10-K for the year ended October 31, 1995, File No. 1-06196).	X
4.32	Pricing Supplement of Medium-Term Notes, Series B, dated October 4, 1996 (incorporated by reference to Exhibit 4.11 to registrant's Annual Report on Form 10-K for the year ended October 31, 1996, File No. 1-06196).	X
4.33	Pricing Supplement of Medium-Term Notes, Series C, dated September 15, 1999 (incorporated by reference to Rule 424(b)(3) Pricing Supplement to Form S-3 Registration Statement Nos. 33-59369 and 333-26161).	X
4.34	Agreement of Resignation, Appointment and Acceptance dated as of March 29, 2007, by and among Piedmont Natural Gas Company, Inc., Citibank, N.A., and The Bank of New York Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended April 30, 2007, filed on June 8, 2007, File No. 1-06196).	X
10.1	Agreements with Piedmont Electric Membership Corporation, Rutherford Electric Membership Corporation and Blue Ridge Electric Membership Corporation (incorporated by reference to Exhibit 10.15 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006, filed on August 9, 2006, File No. 1-32853).	X
10.2	Asset Purchase Agreement between Saluda River Electric Cooperative, Inc., as Seller, and Duke Energy Carolinas, LLC, as Purchaser, dated as of December 20, 2006, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on December 27, 2006, File No. 1-4928).	X
10.3	Settlement between Duke Energy Corporation, Duke Energy Carolinas, LLC and the U.S. Department of Justice resolving Duke Energy's used nuclear fuel litigation against the U.S. Department of Energy, dated as of March 6, 2007, (incorporated by reference to Item 8.01 to registrant's Current Report on Form 8-K filed on March 12, 2007, File No. 1-4928).	X
10.4	Letter Agreement between Georgia Natural Gas Company and Piedmont Energy Company dated February 12, 2016 (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on February 18, 2016, File No. 1-06196).	X
10.5	Assignment of Membership Interests dated as of October 3, 2016 between Piedmont ACP Company, LLC and Dominion Atlantic Coast Pipeline, LLC, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on October 7, 2016, File No. 1-06196).	X
10.6	Agreements between Piedmont Electric Membership Corporation, Rutherford Electric Membership Corporation and Blue Ridge Electric Membership Corporation (incorporated by reference to Exhibit 10.15 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006 filed on August 9, 2006, File No. 1-32853).	X

EXHIBITS

10.7	Conveyance and Assignment Agreement, dated as of October 3, 2016, by and between Piedmont Energy Company and Georgia Natural Gas Company (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on October 3, 2016, File No. 1-06196).			X
10.8	Engineering, Procurement and Construction Management Agreement between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Bechtel Power Corporation, dated as of December 15, 2008, (incorporated by reference to Exhibit 10.16 to registrant's Annual Report on Form 10-K for the year ended December 31, 2008, filed on March 13, 2009, File No. 1-3543). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)			X
10.9	Formation and Sale Agreement between Duke Ventures, LLC, Crescent Resources, LLC, Morgan Stanley Real Estate Fund V U.S. L.P., Morgan Stanley Real Estate Fund V Special U.S., L.P., Morgan Stanley Real Estate Investors V U.S., L.P., MSP Real Estate Fund V, L.P., and Morgan Stanley Strategic Investments, Inc., dated as of September 7, 2006, (incorporated by reference to Exhibit 10.3 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2006, filed on November 9, 2006, File No. 1-32853).	X		
10.10	Operating Agreement of Pioneer Transmission, LLC (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2008, filed on November 7, 2008, File No. 1-32853).	X		
10.11**	Amended and Restated Duke Energy Corporation Directors' Saving Plan, dated as of January 1, 2014, (incorporated by reference to Exhibit 10.32 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2013, filed on February 28, 2014, File No. 1-32853).	X		
10.12	Engineering, Procurement and Construction Management Agreement between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Bechtel Power Corporation, dated as of December 15, 2008, (incorporated by reference to Item 1.01 to registrant's Current Report on Form 8-K filed on December 19, 2008, File Nos. 1-32853 and 1-3543). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)	X		X
10.13**	Duke Energy Corporation Executive Severance Plan (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on January 13, 2011, File No. 1-32853).	X		

EXHIBITS

10.14	\$6,000,000,000 Five-Year Credit Agreement between Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Carolina Power and Light Company d/b/a Duke Energy Progress, Inc. and Florida Power Corporation, d/b/a Duke Energy Florida, Inc., as Borrowers, the lenders listed therein, Wells Fargo Bank, National Association, as Administrative Agent, Bank of America, N.A. and The Royal Bank of Scotland plc, as Co-Syndication Agents and Bank of China, New York Branch, Barclays Bank PLC, Citibank, N.A., Credit Suisse AG, Cayman Islands Branch, Industrial and Commercial Bank of China Limited, New York Branch, JPMorgan Chase Bank, N.A. and UBS Securities LLC, as Co-Documentation Agents, dated as of November 18, 2011, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on November 25, 2011, File Nos. 1-32853, 1-4928, 1-1232 and 1-3543).	X	X			X	X			
10.14.1	Amendment No. 1 and Consent between Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Duke Energy Progress, Inc., Duke Energy Florida, Inc., and Wells Fargo Bank, National Association, dated as of December 18, 2013, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on December 23, 2013, File Nos. 1-32853, 1-4928, 1-3382, 1-3274, 1-1232 and 1-3543).	X	X			X	X	X	X	
10.14.2	Amendment No. 2 and Consent between Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Duke Energy Progress, Inc., and Duke Energy Florida, Inc., the Lenders party hereto, the issuing Lenders party hereto, Wells Fargo Bank, National Association, as Administrative Agent and Swingline Lender, dated as of January 30, 2015, (incorporated by reference to Exhibit 10.1 of registrant's Current Report on Form 8-K filed on February 5, 2015, File Nos. 1-32853, 1-4928, 1-1232, 1-3543, 1-3382 and 1-3274).	X	X			X	X	X	X	
10.14.3	Amendment No. 3 and Consent, dated as of March 16, 2017, among the registrants, the Lenders party thereto, the issuing Lenders party thereto, and Wells Fargo Bank, National Association, as Administrative Agent and Swingline Lender (incorporated by reference to Exhibit 10.1 to registrants' Current Report on Form 8-K filed on March 17, 2017, File Nos. 1-32853, 1-04928, 1-03382, 1-03274, 1-01232, 1-03543, 1-06196).	X	X			X	X	X	X	X
10.15**	Duke Energy Corporation 2010 Long-Term Incentive Plan (incorporated by reference to Appendix A to registrant's Form DEF 14A filed on March 22, 2010, File No. 1-32853).	X								
10.15.1**	Amendment to Duke Energy Corporation 2010 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.3 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2012, filed on August 8, 2012, File No. 1-32853).	X								
10.16**	Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Appendix C to registrant's DEF 14A filed on March 26, 2015, File No. 1-32853).	X								

EXHIBITS

*10.16.1**	Amendment to Duke Energy Corporation 2015 Long-Term Incentive Plan.	X
10.17**	Form of Performance Award Agreement of Duke Energy Corporation under the Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on February 18, 2016, File No. 1-32853).	X
10.18**	Form of Restricted Stock Unit Award Agreement of Duke Energy Corporation under the Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.2 to registrant's Current Report on Form 8-K filed on February 18, 2016, File No. 1-32853).	X
10.19**	Restricted Stock Unit Award Agreement (incorporated by reference to Exhibit 10.4 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).	X
10.20**	Restricted Stock Unit Award Agreement (incorporated by reference to Exhibit 10.24 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2017 filed on February 21, 2018, File No. 1-32853).	X
10.21**	Performance-Based Retention Award Agreement (incorporated by reference to Exhibit 10.2 to registrant's Current Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).	X
10.22**	Performance Award Agreement (incorporated by reference to Exhibit 10.3 to registrant's Current Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).	X
10.23**	Performance Award Agreement (incorporated by reference to Exhibit 10.27 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2017 filed on February 21, 2018, File No. 1-32853).	X
10.24	Settlement Agreement between Duke Energy Corporation, the North Carolina Utilities Commission Staff and the North Carolina Public Staff, dated as of November 28, 2012, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on November 29, 2012, File No. 1-32853).	X
10.25	Settlement Agreement between Duke Energy Corporation and the North Carolina Attorney General, dated as of December 3, 2012, (incorporated by reference to Item 7.01 to registrant's Current Report on Form 8-K filed on December 3, 2012, File No. 1-32853).	X
10.26**	Form of Change-in-Control Agreement (incorporated by reference to Exhibit 10.58 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2012, filed on March 1, 2013, File No. 1-32853).	X
10.27**	Amended and Restated Duke Energy Corporation Executive Cash Balance Plan, dated as of January 1, 2014, (incorporated by reference to Exhibit 10.52 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2013, filed on February 28, 2014, File No. 1-32852).	X

EXHIBITS

10.28	Purchase, Construction and Ownership Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Municipal Power Agency Number 3 and Exhibits, together with resolution, dated as of December 16, 1981, changing name to North Carolina Eastern Municipal Power Agency, amending letter, dated as of February 18, 1982, and amendment, dated as of February 24, 1982, (incorporated by reference to Exhibit 10(a) to registrant's File No. 33-25560).	X
10.29	Operating and Fuel Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Municipal Power Agency Number 3 and Exhibits, together with resolution, dated as of December 16, 1981, changing name to North Carolina Eastern Municipal Power Agency, amending letters, dated as of August 21, 1981, and December 15, 1981, and amendment, dated as of February 24, 1982, (incorporated by reference to Exhibit 10(b) to registrant's File No. 33-25560).	X
10.30	Power Coordination Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Municipal Power Agency Number 3 and Exhibits, together with resolution, dated as of December 16, 1981, changing name to North Carolina Eastern Municipal Power Agency and amending letter, dated as of January 29, 1982, (incorporated by reference to Exhibit 10(c) to registrant's File No. 33-25560).	X
10.31	Amendment, dated as of December 16, 1982, to Purchase, Construction and Ownership Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Eastern Municipal Power Agency (incorporated by reference to Exhibit 10(d) to registrant's File No. 33-25560).	X
10.32**	Progress Energy, Inc. 2007 Equity Incentive Plan (incorporated by reference to Exhibit C to registrant's Form DEF 14A filed on March 30, 2007, File No. 1-15929).	X

EXHIBITS

10.33	Precedent and Related Agreements between Duke Energy Florida, Inc. (formerly Florida Power Corporation d/b/a Progress Energy Florida, Inc. ("PEF")), Southern Natural Gas Company, Florida Gas Transmission Company ("FGT"), and BG LNG Services, LLC ("BG"), including: a) Precedent Agreement between Southern Natural Gas Company and PEF, dated as of December 2, 2004; b) Gas Sale and Purchase Contract between BG and PEF, dated as of December 1, 2004; c) Interim Firm Transportation Service Agreement by and between FGT and PEF, dated as of December 2, 2004; d) Letter Agreement between FGT and PEF, dated as of December 2, 2004, and Firm Transportation Service Agreement between FGT and PEF to be entered into upon satisfaction of certain conditions precedent; e) Discount Agreement between FGT and PEF, dated as of December 2, 2004; f) Amendment to Gas Sale and Purchase Contract between BG and PEF, dated as of January 28, 2005; and g) Letter Agreement between FGT and PEF, dated as of January 31, 2005, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K/A filed on March 15, 2005, File Nos. 1-15929 and 1-3274). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)	X	X
10.34	Engineering, Procurement and Construction Agreement between Duke Energy Florida, Inc. (formerly Florida Power Corporation d/b/a/ Progress Energy Florida, Inc.), as owner, and a consortium consisting of Westinghouse Electric Company LLC and Stone & Webster, Inc., as contractor, for a two-unit AP1000 Nuclear Power Plant, dated as of December 31, 2008, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on March 2, 2009, File Nos. 1-15929 and 1-3274). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)	X	X
10.35**	Employment Agreement between Duke Energy Corporation and Lynn J. Good, dated as of June 17, 2013, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 18, 2013, File No. 1-32853).	X	
10.35.1**	Amendment to Employment Agreement between Duke Energy Corporation and Lynn J. Good, dated as of June 25, 2015, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 29, 2015, File No. 1-32853).	X	
10.36**	Duke Energy Corporation Executive Short-Term Incentive Plan, effective February 25, 2013, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on May 7, 2013, File No. 1-32853).	X	

EXHIBITS

10.37**	Duke Energy Corporation 2017 Director Compensation Program Summary (incorporated by reference to Exhibit 10.3 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2017 filed on August 3, 2017, File No. 1-32853).	X	
10.38**	Amended and Restated Duke Energy Corporation Executive Savings Plan, dated as of January 1, 2014, (incorporated by reference to Exhibit 10.82 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2013, filed on February 28, 2014, File No. 1-32853).	X	
10.38.1	Amendment to Duke Energy Corporation Executive Savings Plan, effective as of January 1, 2014 (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2017, filed on November 3, 2017, File No. 1-32853).	X	
10.39	Agreement between Duke Energy SAM, LLC, Duke Energy Ohio, Inc., Duke Energy Commercial Enterprise, Inc. and Dynegy Resource I, LLC, dated as of August 21, 2014, (incorporated by reference to Exhibit 10.61 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2014, filed on March 2, 2015, File No. 1-32853).	X	X
10.40	Asset Purchase Agreement between Duke Energy Progress, Inc. and North Carolina Eastern Municipal Power Agency, dated as of September 5, 2014, (incorporated by reference to Exhibit 10.62 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2014, filed on March 2, 2015, File No. 1-32853).	X	X
10.41	Change in Control Agreement between Duke Energy Corporation and Lloyd M. Yates, dated as of April 30, 2014, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on May 6, 2014, File No. 1-32853).	X	
10.42	Accelerated Stock Repurchase Program executed by Goldman, Sachs & Co., and JPMorgan Chase Bank, N.A. on April 6, 2015, under an agreement with Duke Energy Corporation (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on April 6, 2015, File No. 1-32853).	X	
10.43	Plea Agreement between Duke Energy Corporation and the Court of the Eastern District of North Carolina in connection with the May 14, 2015, Dan River Grand Jury Settlement (incorporated by reference to Exhibit 10.3 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2015, filed on August 7, 2015, File No. 1-32853).	X	
10.44	Plea Agreement between Duke Energy Corporation and the Court of the Eastern District of North Carolina in connection with the May 14, 2015, Dan River Grand Jury Settlement (incorporated by reference to Exhibit 10.4 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2015, filed on August 7, 2015, File No. 1-32853).	X	

EXHIBITS

10.45	\$1,500,000,000 Amended and Restated Term Loan Agreement among Duke Energy Corporation, as Borrower, the Lenders listed therein, The Bank of Tokyo-Mitsubishi UFJ, Ltd., as Administrative Agent, and The Bank of Tokyo-Mitsubishi UFJ, Ltd., Santander Bank, N.A. and TD Bank, N.A., as Joint Lead Arrangers and Bookrunners, dated as of August 1, 2016, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2016, filed on August 4, 2016, File No. 1-32853).	X
10.46	Purchase and Sale Agreement by and among Duke Energy International Group S.à.r.l., Duke Energy International Brazil Holdings S.à.r.l. and China Three Gorges (Luxembourg) Energy S.à.r.l., dated as of October 10, 2016, (incorporated by reference to Exhibit 2.1 to registrant's Current Report on Form 8-K filed on October 13, 2016, File No. 1-32853).	X
10.47	Purchase and Sale Agreement by and among Duke Energy Brazil Holdings II, C.V., Duke Energy International Uruguay Investments SRL, Duke Energy International Group S.à.r.l., Duke Energy International España Holdings SL, Duke Energy International Investments No. 2 Ltd., ISQ Enerlam Aggregator, L.P., and Enerlam (UK) Holdings Ltd., dated as of October 10, 2016, (incorporated by reference to Exhibit 2.2. to registrant's Current Report on Form 8-K filed on October 13, 2016, File No. 1-32853).	X
10.48**	Amended and Restated Employment Agreement, dated May 25, 2012, between Piedmont Natural Gas Company, Inc. and Franklin H. Yoho (incorporated by reference to Exhibits 10.1 and 10.2 to Piedmont Natural Gas Company, Inc.'s Quarterly Report on Form 10-Q for the quarter ended July 31, 2012, filed on September 7, 2012, File No. 1-06196).	X
10.49**	Severance Agreements with Thomas E. Skains and Franklin H. Yoho, dated September 4, 2007, (incorporated by reference to Exhibits 10.2 and 10.2a to Piedmont Natural Gas Company, Inc.'s Quarterly Report on Form 10-Q for the quarter ended July 31, 2007, filed on September 7, 2007, File No. 1-06196).	X
10.50**	Piedmont Natural Gas Company, Inc. Incentive Compensation Plan (incorporated by reference to Exhibit 10.64 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).	X
10.50.1**	First Amendment to Piedmont Natural Gas Company, Inc. Incentive Compensation Plan (incorporated by reference to Exhibit 4.2 to registrant's Registration Statement on Form S-8 filed on October 3, 2016, File No. 1-32853).	X
10.51**	Form of Performance Unit Award Agreement (incorporated by reference to Exhibit 10.4 to registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 2016, filed on March 9, 2016, File No. 1-06196).	X
10.52**	Waiver of Certain Rights to Terminate for Good Reason between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.66 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).	X

EXHIBITS

10.53**	Notice of Non-Renewal of Employment Agreement between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.67 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).	X	
10.54**	Retention Award Agreement, dated as of October 24, 2015, between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.68 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).	X	
10.55	\$1,000,000,000 Credit Agreement, dated as of June 14, 2017, among Duke Energy Corporation, the lenders listed therein, The Bank of Nova Scotia, as Administrative Agent, PNC Bank, National Association, Sumitomo Mitsui Banking Corporation and TD Bank, N.A., as Co-Syndication Agents, and Bank of China, New York Branch, BNP Paribas, Santander Bank, N.A. and U.S. Bank National Association, as Co-Documentation Agents (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on June 14, 2017, File No. 1-32853).	X	
10.56	\$250,000,000 Term Loan Credit Agreement, dated as of June 14, 2017, among Piedmont Natural Gas Company, Inc. the lenders listed therein, U.S. Bank National Association, as Administrative Agent, Branch Banking and Trust Company and Regions Bank, as Co-Syndication Agents and PNC Bank, National Association, as Documentation Agent (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on June 14, 2017, File No. 1-06196).		X
10.56.1	Amendment No. 1 to the Term Loan Credit Agreement, dated as of September 13, 2018, among Piedmont Natural Gas Company, Inc., the lenders listed therein, U.S. Bank National Association, as Administrative Agent, and PNC Bank, National Association, Bank of New York Mellon and KeyBank, National Association, as Co-Documentation Agents (incorporated by reference to Exhibit 10.1 to registrant's Quarterly Report on Form 10-Q filed on November 2, 2018, File No. 1-32853).	X	
10.57	Note Purchase Agreement, dated as of May 6, 2011, among Piedmont Natural Gas Company, Inc. and the Purchasers party thereto (incorporated by reference to Exhibit 10 to registrant's Current Report on Form 8-K filed on May 12, 2011, File No. 1-06196).		X
10.58	Amended and Restated Limited Liability Company Agreement of Constitution Pipeline Company, LLC dated April 9, 2012, by and among Williams Partners Operating LLC and Cabot Pipeline Holdings LLC (incorporated by reference to Exhibit 10.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 2013, filed on March 6, 2013, File No. 1-06196).		X

EXHIBITS

10.58.1	First Amendment to Amended and Restated Limited Liability Company Agreement of Constitution Pipeline Company, LLC, dated as of November 9, 2012, by and among Constitution Pipeline Company, LLC, Williams Partners Operating LLC, Cabot Pipeline Holdings LLC, and Piedmont Constitution Pipeline Company, LLC (incorporated by reference to Exhibit 10.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 2013, filed on March 6, 2013, File No. 1-06196).			X
10.58.2	Second Amendment to Amended and Restated Limited Liability Company Agreement of Constitution Pipeline Company, LLC, dated as of May 29, 2013, by and among Constitution Pipeline Company, LLC, Williams Partners Operating LLC, Cabot Pipeline Holdings LLC, Piedmont Constitution Pipeline Company, LLC, and Capitol Energy Ventures Corp. (incorporated by reference to Exhibit 99.1 to registrant's Current Report on Form 8-K filed on September 4, 2013, File No. 1-06196).			X
10.59	Second Amended and Restated Limited Liability Company Agreement of SouthStar Energy Services LLC, dated as of September 1, 2013, by and between Georgia Natural Gas Company and Piedmont Energy Company (incorporated by reference to Exhibit 10.39 to registrant's Annual Report on Form 10-K for the year ended October 31, 2013, filed on December 23, 2013, File No. 1-06196).			X
10.60	Limited Liability Company Agreement of Atlantic Coast Pipeline, LLC, dated as of September 2, 2014, by and between Dominion Atlantic Coast Pipeline, LLC, Duke Energy ACP, LLC, Piedmont ACP Company, LLC, and Maple Enterprise Holdings, Inc. (incorporated by reference to Exhibit 10.35 to registrant's Annual Report on Form 10-K for the year ended October 31, 2014, filed on December 23, 2014, File No. 1-06196).			X
*21	List of Subsidiaries	X		
*23.1.1	Consent of Independent Registered Public Accounting Firm.	X		
*23.1.2	Consent of Independent Registered Public Accounting Firm.		X	
*23.1.3	Consent of Independent Registered Public Accounting Firm.			X
*23.1.4	Consent of Independent Registered Public Accounting Firm.			X
*23.1.5	Consent of Independent Registered Public Accounting Firm.			X
*23.1.6	Consent of Independent Registered Public Accounting Firm.			X
*23.1.7	Consent of Independent Registered Public Accounting Firm.			X
*24.1	Power of attorney authorizing Lynn J. Good and others to sign the Annual Report on behalf of the registrant and certain of its directors and officers.	X		
*24.2	Certified copy of resolution of the Board of Directors of the registrant authorizing power of attorney.	X		
*31.1.1	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	X		
*31.1.2	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.		X	

EXHIBITS

*31.1.3	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.		X	
*31.1.4	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.			X
*31.1.5	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.			X
*31.1.6	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.			X
*31.1.7	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.			X
*31.1.8	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.			X
*31.2.1	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	X		
*31.2.2	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.		X	
*31.2.3	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.		X	
*31.2.4	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.			X
*31.2.5	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.			X
*31.2.6	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.			X
*31.2.7	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.			X
*31.2.8	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.			X
*32.1.1	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.	X		
*32.1.2	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.		X	
*32.1.3	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.		X	
*32.1.4	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.			X
*32.1.5	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.			X
*32.1.6	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.			X

EXHIBITS

*32.1.7	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.								X
*32.1.8	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.								X
*32.2.1	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.	X							
*32.2.2	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.		X						
*32.2.3	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.			X					
*32.2.4	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.				X				
*32.2.5	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.					X			
*32.2.6	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.						X		
*32.2.7	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.							X	
*32.2.8	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.								X
*101.INS	XBRL Instance Document	X	X	X	X	X	X	X	X
*101.SCH	XBRL Taxonomy Extension Schema Document	X	X	X	X	X	X	X	X
*101.CAL	XBRL Taxonomy Calculation Linkbase Document	X	X	X	X	X	X	X	X
*101.LAB	XBRL Taxonomy Label Linkbase Document	X	X	X	X	X	X	X	X
*101.PRE	XBRL Taxonomy Presentation Linkbase Document	X	X	X	X	X	X	X	X
*101.DEF	XBRL Taxonomy Definition Linkbase Document	X	X	X	X	X	X	X	X

The total amount of securities of each respective registrant or its subsidiaries authorized under any instrument with respect to long-term debt not filed as an exhibit does not exceed 10 percent of the total assets of such registrant and its subsidiaries on a consolidated basis. Each registrant agrees, upon request of the SEC, to furnish copies of any or all of such instruments to it.

SIGNATURES

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrants have duly caused this report to be signed on their behalf by the undersigned, thereunto duly authorized.

Date: February 28, 2019

DUKE ENERGY
CORPORATION
(Registrant)

By:

/s/ LYNN J. GOOD

Lynn J. Good
Chairman, President and Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chairman, President and Chief Executive Officer (Principal Executive Officer and Director)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
- | | |
|--------------------------|--------------------------|
| Michael G. Browning* | James B. Hyler, Jr.* |
| Annette K. Clayton* | William E. Kennard* |
| Theodore F. Craver, Jr.* | E. Marie McKee* |
| Robert M. Davis* | Charles W. Moorman IV* |
| Daniel R. DiMicco* | Carlos A. Saladrigas* |
| John H. Forsgren* | Thomas E. Skains* |
| Lynn J. Good* | William E. Webster, Jr.* |
| John T. Herron* | |

Steven K. Young, by signing his name hereto, does hereby sign this document on behalf of the registrant and on behalf of each of the above-named persons previously indicated by asterisk (*) pursuant to a power of attorney duly executed by the registrant and such persons, filed with the Securities and Exchange Commission as an exhibit hereto.

By:

/s/ STEVEN K. YOUNG

Attorney-In-Fact

Date: February 28, 2019

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Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 28, 2019

DUKE ENERGY
CAROLINAS, LLC
(Registrant)

By:

/s/ LYNN J. GOOD

Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
- /s/ LYNN J. GOOD
Lynn J. Good
- /s/ DHIAA M. JAMIL
Dhiaa M. Jamil
- /s/ LLOYD M. YATES
Lloyd M. Yates

Date: February 28, 2019

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Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 28, 2019

PROGRESS ENERGY, INC.
(Registrant)

By:

/s/ LYNN J. GOOD

Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

(i) /s/ LYNN J. GOOD

Lynn J. Good

Chief Executive Officer (Principal Executive Officer)

(ii) /s/ STEVEN K. YOUNG

Steven K. Young

Executive Vice President and Chief Financial Officer (Principal Financial Officer)

(iii) /s/ DWIGHT L. JACOBS

Dwight L. Jacobs

Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)

(iv) Directors:

/s/ LYNN J. GOOD

Lynn J. Good

/s/ JULIA S. JANSON

Julia S. Janson

Date: February 28, 2019

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Date: February 28, 2019

DUKE ENERGY
PROGRESS, LLC
(Registrant)

By:

/s/ LYNN J. GOOD

Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
- /s/ DOUGLAS F ESAMANN
Douglas F Esamann
- /s/ LYNN J. GOOD
Lynn J. Good
- /s/ DHIAA M. JAMIL
Dhiala M. Jamil
- /s/ JULIA S. JANSON
Julia S. Janson
- /s/ LLOYD M. YATES
Lloyd M. Yates

Date: February 28, 2019

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Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 28, 2019

DUKE ENERGY FLORIDA,
LLC
(Registrant)

By:

/s/ LYNN J. GOOD

Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
- /s/ DOUGLAS F ESAMANN
Douglas F Esamann
- /s/ LYNN J. GOOD
Lynn J. Good
- /s/ DHIAA M. JAMIL
Dhíaa M. Jamíl
- /s/ JULIA S. JANSON
Julia S. Janson
- /s/ LLOYD M. YATES
Lloyd M. Yates

Date: February 28, 2019

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Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 28, 2019

DUKE ENERGY OHIO, INC.
(Registrant)

By:

/s/ LYNN J. GOOD

Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ DOUGLAS F ESAMANN
Douglas F Esamann
 - /s/ LYNN J. GOOD
Lynn J. Good
 - /s/ DHIAA M. JAMIL
Dhiala M. Jamil

Date: February 28, 2019

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Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 28, 2019

DUKE ENERGY INDIANA,
LLC
(Registrant)

By:

/s/ LYNN J. GOOD

Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ DOUGLAS F ESAMANN
Douglas F Esamann
 - /s/ KELLEY A. KARN
Kelley A. Karn
 - /s/ STAN PINEGAR
Stan Pinegar

Date: February 28, 2019

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Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 28, 2019

PIEDMONT NATURAL GAS
COMPANY, INC.
(Registrant)

By:

/s/ LYNN J. GOOD

Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ LYNN J. GOOD
Lynn J. Good
 - /s/ DHIAA M. JAMIL
Dhiaa M. Jamil
 - /s/ FRANKLIN H. YOHO
Franklin H. Yoho

Date: February 28, 2019

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TRANSFORMING THE FUTURE

Duke Energy 2018 Annual Report and Form 10-K



**“WE’RE BUILDING AN AGILE, FORWARD-
THINKING ENERGY COMPANY.”**

2018

Transforming the Future



LYNN J. GOOD

| Chairman, President
and Chief Executive Officer

Dear Shareholder:

History is a powerful teacher and over our 100-year history, change has been constant and challenging times have come and passed. What sustains our company has remained remarkably consistent: the resolve of our employees, our focus on delivering value and our commitment to those we serve.

This is the lesson of our history – and it serves as a guide as we continue transforming the future.

In this year's letter, I can report that our company of 30,000 employees is taking control and driving our transformation. In 2018, we delivered strong financial results. We made good progress on our plan to modernize our grid, generate cleaner energy and expand our natural gas infrastructure. And, most importantly, we focused on customers, charging ahead to meet their needs – whether restoring power after historic storms or offering new services and technologies.

The pages that follow will provide you detail on the challenges and opportunities we faced in 2018 – and how we responded. In each circumstance, our people rose to the occasion. They demonstrated their commitment and courage to do what was needed to support our customers and deliver results for our shareholders.

Nothing truly transformative can be accomplished overnight, and we remain focused on the long term. We are building something special at Duke Energy.

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CONTINUED FINANCIAL PERFORMANCE

2018 was a strong year for Duke Energy as we delivered on our financial commitments and positioned the company for sustainable long-term growth.

Our adjusted diluted earnings per share were \$4.72 for the year – within the top half of our original guidance range. Our results continue to be driven by strong growth from our electric, natural gas and commercial renewables businesses. In addition, our long-term growth capital plan and cost management discipline continue to generate positive results.

We maintained our focus on operations and maintenance expenses in 2018 – and remain on track to keep costs flat through 2023. We also made significant progress to improve productivity and identify potential cost reductions that support our long-term strategy. Last year, we created Lighthouse, an employee-driven initiative focused on identifying the best ways to use digital capabilities to transform our business. More than 400 employees are implementing digital solutions that will deliver new services and benefits for our customers, and cost savings in 2019 and beyond.

Our stock performed well in 2018 as our total shareholder return of 7.4 percent outperformed the Philadelphia Utility Index. It was also well ahead of the 4.4 percent decline in the S&P 500. 2019 marks the 93rd consecutive year of paying a quarterly cash dividend, and in 2018 we increased it by 4.2 percent. We remain committed to continue growing the dividend in the future.

This past year, we successfully responded to the effects of federal tax reform, which provided an opportunity to pass the direct benefits of the new law to customers. We issued \$2 billion of common equity to help support the balance sheet, including a common equity offering that was markedly oversubscribed. This is a testament to the value investors see in owning Duke Energy stock. Likewise, we achieved constructive regulatory outcomes regarding tax reform and the

effect on customers' rates in all our electric and gas jurisdictions. This allowed us to maintain the credit quality of our utilities and holding company.

In November, our Duke Energy Carolinas utility completed its inaugural issuance of \$1 billion in green bonds that will finance green energy projects in the Carolinas. This represents one of the largest green bond transactions from a utility. We are investing in more clean and renewable energy to transform our energy future, and it has received significant interest from investors.

Our performance in 2018 gives us confidence in our ability to consistently grow the company. This February, we announced our 2019 adjusted diluted earnings guidance range of \$4.80 to \$5.20 per share. Our long-term growth rate remains at 4 to 6 percent, underpinned by our commitment to deliver strong results on our \$37 billion growth capital plan over the next five years.

The investor proposition we introduced two years ago remains relevant today. We continue to see the benefits of our portfolio transition – with a focus on stable, predictable and regulated businesses – and our long-term strategy. The fundamentals of our business are strong and allowed us to deliver growth in earnings and dividends in a low-risk, predictable and transparent way.

PUSHING OUR STRATEGY FORWARD

Duke Energy, like companies in all industries, continues to face a transformational wave – a mix of rising customer demands, technology adoption and changing political dynamics – that requires us to adapt how we operate and deliver value. The pace of change is only increasing. We saw that clearly in 2018 – and don't see it slowing down soon.

But change brings opportunity, and we're using it to transform our business. We're executing our strategy, making needed adjustments and accelerating work to keep us moving toward our



STRENGTHEN THE GRID

Our strategic enhancements will allow us to strengthen the grid, making it more resilient and secure, as well as incorporate new technologies to better serve customers, improve reliability and integrate renewable energy.



goals. We're also reshaping our workforce to ensure we're staffed efficiently and with the right skills as we embrace digital tools and agile processes.

Transforming the Customer Experience

Today, we increasingly face new competition from those who focus on the needs of people, not wires and poles, and use data, technology and insights to bring customers more value and services they want. It is no longer enough for us to be great system operators. To win, we must put the customer at the center of all we do.

Our customer transformation cannot be incremental. That's why we're focused on marrying technology, ability and information to engage with customers along their life cycle with us.

In 2018, we focused on turning data into knowledge, better identifying and informing priorities for our customers. Based on this extensive data, we're improving how our customers pay their bills, report outages and start service. We're also improving vegetation management and making upgrades to outdoor lighting.

The response has been overwhelmingly positive. We saw improvements across almost all jurisdictions in our performance as measured by J.D. Power's Customer Service Index for residential electric customers. In addition, we saw a nearly 20-point increase in customer advocacy in 2018. This real-time customer feedback will continue to guide us moving forward.

We also made progress upgrading our customer information system – an important platform that will enable new features, providing enhanced marketing and new communications capabilities for customers. We've already started rolling out segments of it and plan to have the new platform fully implemented by 2022.

Our customers have high expectations for us, and we're committed to not only meeting them but anticipating them. We have much to do, but

2018 showed that we're embracing this challenge head-on.

Modernizing the Energy Grid

The energy grid is a true engineering marvel – a vast system that generates and delivers affordable, reliable power that fuels today's industrial and digital economy. As we look to exceed our customers' demand for new benefits and solutions, we're investing to create a more modern, intelligent grid that can also meet ever-changing physical and cyber security challenges.

Our strategic enhancements will allow us to strengthen the grid, making it more resilient and secure, as well as incorporate new technologies to better serve customers, improve reliability and integrate renewable energy.

Smart meters remain a key technology in our strategy. We installed more than 1.6 million smart meters in 2018 and now more than 62 percent of our customers have this technology. With it, customers can access enhanced usage information and alerts. Smart meters also improve outage detection and give customers more options to improve their experience. We completed deployments in Kentucky and made significant progress in the Carolinas and Indiana. And in Florida, we started deployments, helping us stay on track to be fully deployed in all our jurisdictions by year-end 2021.

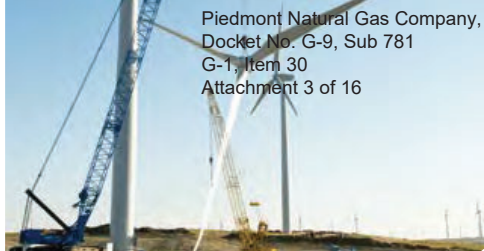
In 2018, we improved the security of the grid against physical and cyber security risks. We upgraded equipment and installed protective devices to meet higher standards. We also launched grid strengthening work to identify the most outage-prone power lines on our system and move those lines underground. Initial conversions in Ohio, Florida and the Carolinas are reducing outages and improving our customers' experience.

Across our footprint, self-healing technologies, which automatically isolate trouble and restore power, prevented more than 700,000 extended power outages and saved customers approximately 95 million outage minutes in 2018. In addition, our technology prevented 80,000



SMART METERS

Smart meters remain a key technology in our strategy. We installed more than 1.6 million smart meters in 2018 and now more than 62 percent of our electric customers have this technology.



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RENEWABLE ENERGY

We are bringing more renewables to our customers. Over the past four years, we connected more than 2,500 megawatts of solar to our grid in the Carolinas, enough to power about a half million homes.

extended outages during Hurricane Florence and gave us better information to expedite restoration following this storm.

We are excited about the enhancements we are seeing to improve reliability, mitigate outages, and create new and better benefits for customers.

We look forward to continuing this important work in the year ahead.

Generating Cleaner Energy

Everyone who has a stake in Duke Energy's success – from our employees to customers, investors and more – wants to be part of the answer to generating cleaner power. As a result, our company is a leader in reducing emissions and delivering more renewable energy to customers.

Over the past year, we continued to transition our generation fleet from coal to natural gas, expand renewable generation and leverage our modernized grid to support new technologies. This has kept us on track to reduce our carbon emissions by 40 percent from our 2005 levels by 2030.

In 2018, we brought two combined-cycle, natural gas-fired plants online – W.S. Lee and Citrus County – and our Western Carolinas Modernization Project in Asheville, North Carolina, remains on

track for a late 2019 in-service date. These highly efficient natural gas plants will help us deliver a cleaner, smarter energy future for our customers.

We are bringing more renewables to our customers. Over the past four years, we connected more than 2,500 megawatts of solar to our grid in the Carolinas, enough to power about a half million homes. This has kept North Carolina second in the nation for overall solar power capacity, behind only California.

Last year, we launched the first request for proposal for new renewable energy resources under North Carolina House Bill 589. This 680-megawatt solicitation seeks projects that can be placed in service by the end of 2020. In addition, more than 1,700 North Carolina customers installed solar systems and qualified for rebates as part of our \$62 million, multiyear rebate program. In Florida, our Hamilton Solar Power Plant went into service in December, bringing nearly 75 megawatts to customers. The plant is part of our plan to add 700 megawatts of solar facilities in the state.

Commercial renewables expanded its footprint to 14 states as our 24.9-megawatt Shoreham Solar Commons project came online last year in New York. Looking ahead, this business has over 1,000 megawatts in late stages of development. We're

also investing in battery storage and have outlined plans to deploy \$500 million in battery storage projects in the Carolinas over the next 15 years – equal to about 300 megawatts of capacity. We also have plans for an additional 75 megawatts of batteries in our other regions.

Nuclear energy is vital in our efforts to limit emissions. Our 11 units remain fundamental to providing carbon-free generation to our Carolinas customers – and meeting our long-term carbon reduction goals. We continue to evaluate subsequent license renewals for our nuclear fleet for an additional 20 years.

Our progress in 2018 helped us continue our march toward a cleaner energy future.

Building Our Natural Gas Infrastructure

Our transition to a lower-carbon future is well underway in the electric sector – and natural gas is helping lead the way. We continue to benefit from our merger with Piedmont Natural Gas as we expand our natural gas infrastructure and leverage benefits from the overlap between our electric and gas businesses.

In 2018, we commissioned two dual-fuel units at our Rogers Energy Complex, which can now generate electricity for customers using either natural gas or coal. We also plan to retrofit units at our Belews Creek and Marshall Steam stations, giving us more fuel flexibility. In addition, Piedmont Natural Gas announced plans to build and operate a liquefied natural gas facility in Robeson County, North Carolina. This \$250 million investment will drive significant economic benefits for the local community and help Piedmont meet demand during peak usage days.

We also worked diligently to complete the Atlantic Coast Pipeline (ACP) project – critical infrastructure that will allow us to bring a low-cost gas supply and economic development opportunities to the Southeast. We received Federal Energy Regulatory Commission approval for full construction in West Virginia and North Carolina and made progress with mainline construction and tree felling. In addition, ACP

received all major state permits in Virginia, a critical milestone for the project.

Recent legal and permitting challenges, however, have resulted in a stoppage of major construction activity along the pipeline route. As we navigate and seek resolution to the current challenges, we continue to work with our project partners to explore opportunities that would support an efficient restart of construction in 2019.

ACP has been one of the most thoroughly reviewed infrastructure projects of its kind. Delaying it has forced consumers and businesses to pay higher energy costs, slowed the transition to cleaner energy and resulted in the loss of more than 4,500 jobs.

We remain committed to this project and the important benefits our expanding natural gas infrastructure brings to our customers.

Engaging Stakeholders to Achieve Great Outcomes

Our company is heavily regulated and operates under intense public scrutiny, all of which means there are many parties vested in our success. Finding common ground is how work gets done. It is how progress is made and how we believe we will thrive during our current transformation. That's why stakeholder engagement remains a critical part of our success.

In 2018, we achieved many positive regulatory outcomes, demonstrating our ability to work with stakeholders to achieve solutions that benefit customers and support our growth plans.

The North Carolina Utilities Commission issued constructive decisions in two rates cases that balance the needs of our customers and our company. This included addressing costs for responsibly closing coal ash basins and returning federal tax savings to customers. In addition, the Public Utilities Commission of Ohio adopted our settlement agreement, resolving several outstanding rate cases while creating a new grid rider for projects to modernize the grid, including



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NUCLEAR ENERGY

Our nuclear fleet's capacity factor was 93 percent, marking the 20th consecutive year that our fleet's capacity factor has been above 90 percent.

smart meters and a battery project, and transform the customer experience.

We filed rate cases for our two South Carolina utilities in November to recover costs for modernizing our electric system while maintaining competitive rates for customers. We also presented a new grid improvement plan to the commission and have worked with stakeholders, through ongoing workshops and discussion sessions, on a cost-effective approach to modernize the energy grid.

We remain focused on working with a wide range of stakeholders to modernize our regulatory constructs – making the case to reform how we recover our investments to better serve our customers. This will remain an important goal for us as we continue delivering value to our customers and shareholders.

DELIVERING OPERATIONAL EXCELLENCE

The reliable operation of our power plants, grid and natural gas infrastructure, and our ability to respond in the face of new threats, is foundational

to our success. It is what is demanded of us by our customers, and directly impacts our financial results and our credibility with stakeholders. There is nothing we take more seriously.

This commitment starts with safety. We will not be successful without our steadfast commitment to the safety of our employees, the communities we serve and the environment. Our employees delivered strong safety results and maintained our industry-leading performance for another year.

In 2018, our generation fleet continued to perform well. Our nuclear fleet's capacity factor was 93 percent, marking the 20th consecutive year that our fleet's capacity factor has been above 90 percent. Our nuclear fleet provided more than 72 billion kilowatt-hours of carbon-free energy last year – powering half of our Carolinas customers.

However, our focus on operational excellence was tested by record weather in 2018 in the form of hurricanes Florence and Michael.

In the span of a few months, our lineworkers restored 3 million outages – working in some of the most difficult conditions imaginable. Call centers, backed by corporate employees and our systems, handled over 3 million calls. We sent



SUPPORTING OUR COMMUNITIES

Last year, the Duke Energy Foundation donated more than \$31 million to support our communities. In addition, our employees and retirees made their presence known, volunteering over 126,000 hours.



over 27 million emails and texts to customers, giving them a line of sight into our response efforts. And our plant employees kept our assets safe. Case in point: Our Brunswick Nuclear Plant took a direct hit from Hurricane Florence, but our employees safely secured the plant and got it back online shortly after the storm passed.

Our successful storm response was driven, in part, by lessons learned from previous storms. After Hurricane Irma, for example, we performed information technology system stress tests to simulate storm volumes of outages and customer contacts. We also conducted extensive simulations and drills to test our storm response readiness.

As a result, our employees have set a new standard for storm response, as evidenced by Duke Energy being awarded Edison Electric Institute's Emergency Recovery Award for our restoration efforts after Hurricane Florence.

Operational excellence also continues to underpin our coal ash management efforts. In North Carolina, our ash basins were maintained and operated safely, including during storms. We excavated over 5 million tons of ash in 2018 – and have excavated approximately 20 million tons in North Carolina to date. Additional upgrades to facilities, combined with the completion of permanent water lines for plant neighbors, resulted in “low-risk” rankings for basins at seven sites. This important outcome allows us to pursue the full range of closure options, including safely capping basins in place, at the six sites where plans are being reviewed by the North Carolina Department of Environmental Quality. Our priority remains protecting people and the environment while keeping costs reasonable for our customers.

Our focus on cleaner, sustainable operations shows in our performance. For the 13th consecutive year, Duke Energy was included in the Dow Jones Sustainability Index, demonstrating our commitment to sustainability and corporate responsibility.

CREATING POWERFUL COMMUNITIES

Since the company was founded in 1904, we have been an active, engaged partner in our communities. Vibrant, successful communities drive our growth and, just as importantly, are home to our employees. Helping our neighbors live better lives is a significant part of our mission.

You see this commitment through our support of economic development as we collaborate with local government, business and community leaders. In 2018, Duke Energy attracted \$5.3 billion in capital investment, helping create 14,000 jobs. And for the 14th consecutive year, we were named to Site Selection magazine's annual list of Top 10 Utilities in Economic Development.

But our commitment goes beyond bringing new jobs and investment. We're proud to be active members of the communities where we live and work.

For more than a century, we have supported our communities through volunteerism and charitable giving. Last year, the Duke Energy Foundation donated more than \$31 million to support our communities. In addition, our employees and retirees made their presence known, volunteering over 126,000 hours.

We also launched a new campaign, called the Power of Giving, which empowers employees to support the cause of their choice and have their donations matched by the Duke Energy Foundation. Through the campaign, employees pledged \$5.3 million in charitable contributions. When combined with the Foundation matching gifts for this campaign, that is more than \$10 million in funding to support our communities.

Our Foundation focuses on creating powerful communities, and a key part is supporting the future workforce.

Our success as a company requires a talented, diverse workforce that is aligned to our mission. In 2018, we continued our efforts to attract



CUSTOMER EXPERIENCE

By executing our strategy, we will have deeper insight into our customers – allowing us to offer the experiences and products they look for from their energy provider.

employees who bring diverse thoughts, work and life experiences, perspectives, and cultures. In October, we appointed a new chief diversity officer to strengthen diversity in our recruiting pipeline, workforce and leadership team. In addition, Duke Energy became the first energy company to sign the Historically Black Colleges and Universities (HBCU) Partnership Challenge. Created by the Bipartisan HBCU Caucus, this initiative seeks to promote greater engagement and support from private companies with HBCUs.

We continued our focus on veterans, helping former military personnel map their skills to utility industry jobs. Our work resulted in hiring nearly 200 veterans as we look to fill at least 12 percent of our open positions with veterans. This continued support of those who serve was recognized by the U.S. Department of Defense, which awarded us the 2018 Employer Support Freedom Award. This is the highest honor the department gives to companies for their support of employees who serve in the National Guard and Reserve.

Duke Energy's commitment to our communities remains steadfast. It's an honor to serve them, and we will continue to invest in our communities to protect the environment, support students and develop a workforce that is ready to lead us forward.

TRANSFORMING THE FUTURE

Since I joined Duke Energy, I have worked with many courageous and talented people. They remain the driving force of our continued success. In the past year, our workforce has embraced our digital transformation, responded to the changing needs of our business and shown unwavering commitment to our customers.

Our company's reputation is forged by our employees, who live, work and volunteer in the cities and towns we serve. It is an honor to work alongside them.

One of those people was Jim Rogers, my predecessor as CEO, who passed away in December. Jim was a transformational leader who served with a boundless passion. He is remembered for his charisma and leadership, which helped shape the future of Duke Energy and our industry. Jim brought unbridled enthusiasm to his work and approached each year with a fresh perspective, renewed energy and great commitment. That spirit lives on at Duke Energy – and helps fuel our continued transformation.

We cannot predict with precision what the next year, let alone five years, will hold for us. What I can say is that the company you've read about in this letter will look different in five years – because we're building an agile, forward-thinking energy company.

By executing our strategy, we will have deeper insight into our customers – allowing us to offer the experiences and products they look for from their energy provider. We will have more technology on our system, making our company smarter, cleaner and more efficient. And we'll build on strong customer and stakeholder relationships to ensure we're delivering on their expectations for us.

I want to thank you, as shareholders, for your investment in Duke Energy. 2018 was a powerful chapter in our company's history, and I'm excited about what lies ahead.



Lynn J. Good
Chairman, President and Chief Executive Officer

Annual Meeting of Shareholders

Duke Energy's 2019 Annual Meeting of Shareholders will be:

Date: May 2, 2019

Time: 12:30 p.m. Eastern time

Visit: duke-energy.onlineshareholdermeeting.com

Audio broadcast: 888.254.3590
confirmation code: 1907885

To participate in the online Annual Meeting, shareholders will need the 16-digit control number included in the Notice of Internet Availability of the Proxy Materials, on the proxy card, and on the instructions that accompanied your proxy materials.

Shareholder Services

Shareholders may call 800.488.3853 or 704.382.3853 with questions about their stock accounts, legal transfer requirements, address changes, or replacement dividend checks. Additionally, registered shareholders can view their account online through DUK-Online, available at duke-energy.com/investors. Send written requests to:

Investor Relations
Duke Energy
P.O. Box 1005
Charlotte, NC 28201

For electronic correspondence, visit duke-energy.com/investors.

Stock Exchange Listing

Duke Energy's common stock is listed on the New York Stock Exchange. The Corporation's common stock trading symbol is DUK.

Website Addresses

Corporate homepage: duke-energy.com

Investor Relations: duke-energy.com/investors

InvestorDirect Choice Plan

The InvestorDirect Choice Plan provides a simple and convenient way to purchase common stock directly through the Corporation, without incurring brokerage fees. Purchases may be made weekly. Bank drafts for monthly purchases, as well as a safekeeping option for depositing certificates into the plan, are available.

The plan also provides for full reinvestment, direct deposit, or cash payment of a portion of the dividends. Additionally, participants may register for DUK-Online, our online account management service.

Financial Publications

Duke Energy's Annual Report and related financial publications can be found on our website at duke-energy.com/investors. Printed copies are also available free of charge upon request.

Duplicate Mailings

If your shares are registered in different accounts, you may receive duplicate mailings of annual reports, proxy statements and other shareholder information. Call Investor Relations for instructions on eliminating duplications or combining your accounts.

Transfer Agent and Registrar

Duke Energy maintains shareholder records and acts as transfer agent and registrar for the Corporation's common stock.

Dividend Payment

Duke Energy has paid quarterly cash dividends on its common stock for 93 consecutive years. For the remainder of 2019, dividends on common stock are expected to be paid, subject to declaration by the Board of Directors, on June 17, September 16 and December 16.

Bond Trustee

If you have questions regarding your bond account, call 800.254.2826, or write to:

The Bank of New York Mellon
Global Trust Services
101 Barclay Street – 21st Floor
New York, NY 10286

Send Us Feedback

We welcome your opinion on this annual report. Please visit duke-energy.com/investors, where you can view and provide feedback on both the print and online versions of this report or contact Investor Relations directly. Duke Energy is an equal opportunity employer. This report is published solely to inform shareholders and is not to be considered an offer, or the solicitation of an offer, to buy or sell securities.

OUR FINANCIAL HIGHLIGHTS^a

(In millions, except per share amounts)

Operating Results

	2018	2017 ^b	2016 ^b
Total operating revenues	\$24,521	\$23,565	\$22,743
Income from continuing operations	\$2,625	\$3,070	\$2,578
Net income	\$2,644	\$3,064	\$2,170

Cash Flow Data

Net cash provided by operating activities	\$ 7,186	\$6,624	\$6,863
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Common Stock Data

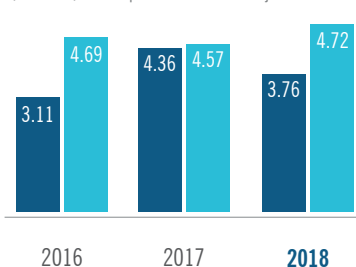
Shares of common stock outstanding			
Year-end	727	700	700
Weighted average – basic and diluted	708	700	691
Reported diluted earnings per share (GAAP)	\$3.76	\$4.36	\$3.11
Adjusted diluted earnings per share (non-GAAP)	\$4.72	\$4.57	\$4.69
Dividends declared per share	\$3.64	\$3.49	\$3.36

Balance Sheet Data

Total assets	\$145,392	\$137,914	\$132,761
Long-term debt including capital leases, less current maturities	\$51,123	\$49,035	\$45,576
Total Duke Energy Corporation stockholders' equity	\$43,817	\$41,739	\$41,033

Earnings per share

(in dollars) ■ Reported Diluted ■ Adjusted Diluted



Dividends declared per share

(in dollars)



Capital and investment expenditures

(dollars in billions)



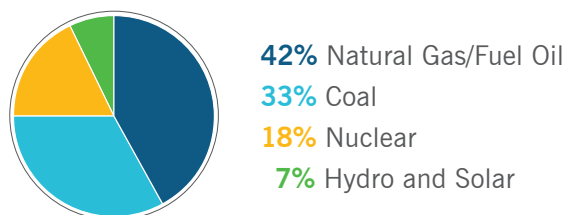
^aSignificant transactions reflected in the results above include: (i) regulatory and legislative charges related to Duke Energy Progress and Duke Energy Carolinas North Carolina rate case orders and impairment charges in 2018 (see Notes 4, 11 and 12 to the Consolidated Financial Statements, "Regulatory Matters," "Goodwill and Intangible Assets" and "Investments in Unconsolidated Affiliates"); (ii) the sale of the International Disposal Group in 2016, including a loss on sale recorded within discontinued operations (see Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions"); and (iii) the acquisition of Piedmont in 2016, including losses on interest rate swaps related to the acquisition financing (see Note 2).

^bPrior year data has been recast to reflect the classification of the International Disposal Group as discontinued operations and to reflect the impacts of new accounting standards.

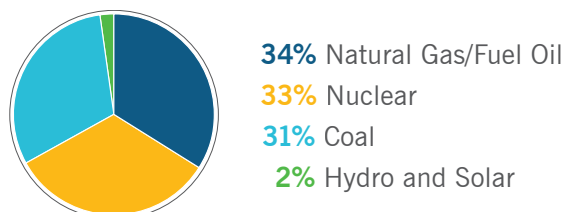
DUKE ENERGY AT A GLANCE

Electric Utilities and Infrastructure

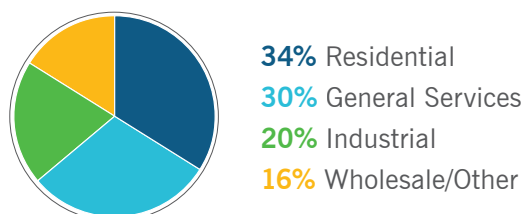
Generation Diversity (percent owned capacity)¹



Generated (net output gigawatt-hours (GWh))²



Customer Diversity (in billed GWh sales)²



Electric Utilities and Infrastructure conducts operations primarily through the regulated public utilities of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida, Duke Energy Indiana and Duke Energy Ohio.

Electric Operations

- Owns approximately 50,800 megawatts (MW) of generating capacity
- Service area covers about 95,000 square miles with an estimated population of 24 million
- Service to approximately 7.7 million residential, commercial and industrial customers
- 280,200 miles of distribution lines and a 31,400-mile transmission system

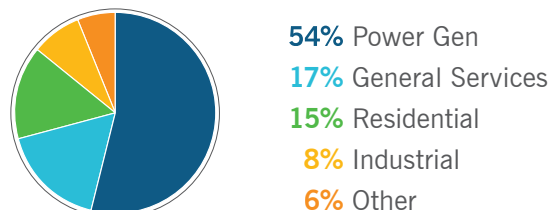
¹ As of December 31, 2018. | ² For the year ended December 31, 2018.

³ Contains projects included in tax equity structures where investors have differing interests in the projects' economic attributes (100 percent of the tax equity projects' capacity is included).

Natural Gas Customer Diversity

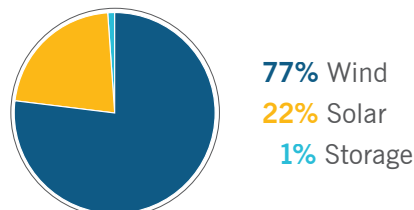
Gas Utilities and Infrastructure conducts natural gas distribution operations primarily through the regulated public utilities of Piedmont Natural Gas and Duke Energy Ohio.

Natural Gas Operations (throughput)²



- Regulated natural gas transmission and distribution services to approximately 1.6 million customers in the Carolinas, Tennessee, southwestern Ohio and Northern Kentucky
- Maintains more than 33,300 natural gas transmission and distribution pipelines and 27,700 miles of natural gas service pipelines

Duke Energy Renewables



Generation Diversity (percent owned capacity)^{1,3}

Duke Energy Renewables primarily acquires, develops, builds and operates wind and solar renewable generation throughout the continental U.S. The portfolio includes nonregulated renewable energy and energy storage assets.

Duke Energy Renewables, part of the Commercial Renewables business segment, includes utility-scale wind and solar and distributed solar generation assets that total 2,991 MW across 18 states from 21 wind, 99 solar projects and one energy storage system. The power produced from renewable generation is primarily sold through long-term contracts to utilities, electric cooperatives, municipalities and commercial and industrial customers.

As part of its growth strategy, Duke Energy Renewables has expanded its investment portfolio through the addition of distributed solar companies.

DUKE ENERGY CORPORATION

2018 Form 10-K

OFFICIAL COPY

SEP 13 2021

UNITED STATES SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549
FORM 10-K

(Mark One)
☒

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal period ended December 31, 2018 or

☐

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____ to _____

Commission file number	Registrant, State of Incorporation or Organization, Address of Principal Executive Offices and Telephone Number	IRS Employer Identification No.
---------------------------	--	------------------------------------



1-32853	DUKE ENERGY CORPORATION (a Delaware corporation) 550 South Tryon Street Charlotte, NC 28202-1803 704-382-3853	20-2777218
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Commission file number	Registrant, State of Incorporation or Organization, Address of Principal Executive Offices, Telephone Number and IRS Employer Identification Number	Commission file number	Registrant, State of Incorporation or Organization, Address of Principal Executive Offices, Telephone Number and IRS Employer Identification Number
1-4928	DUKE ENERGY CAROLINAS, LLC (a North Carolina limited liability company) 526 South Church Street Charlotte, North Carolina 28202-1803 704-382-3853 56-0205520	1-3274	DUKE ENERGY FLORIDA, LLC (a Florida limited liability company) 299 First Avenue North St. Petersburg, Florida 33701 704-382-3853 59-0247770
1-15929	PROGRESS ENERGY, INC. (a North Carolina corporation) 410 South Wilmington Street Raleigh, North Carolina 27601-1748 704-382-3853 56-2155481	1-1232	DUKE ENERGY OHIO, INC. (an Ohio corporation) 139 East Fourth Street Cincinnati, Ohio 45202 704-382-3853 31-0240030
1-3382	DUKE ENERGY PROGRESS, LLC (a North Carolina limited liability company) 410 South Wilmington Street Raleigh, North Carolina 27601-1748 704-382-3853 56-0165465	1-3543	DUKE ENERGY INDIANA, LLC (an Indiana limited liability company) 1000 East Main Street Plainfield, Indiana 46168 704-382-3853 35-0594457
1-6196	PIEDMONT NATURAL GAS COMPANY, INC. (a North Carolina corporation) 4720 Piedmont Row Drive Charlotte, North Carolina 28210 704-364-3120 56-0556998		

SECURITIES REGISTERED PURSUANT TO SECTION 12(b) OF THE ACT:

Registrant	Title of each class	Name of each exchange on which registered
Duke Energy Corporation (Duke Energy)	Common Stock, \$0.001 par value	New York Stock Exchange LLC
Duke Energy	5.125% Junior Subordinated Debentures due January 15, 2073	New York Stock Exchange LLC
Duke Energy	5.625% Junior Subordinated Debentures due September 15, 2078	New York Stock Exchange LLC

SECURITIES REGISTERED PURSUANT TO SECTION 12(g) OF THE ACT: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.

Duke Energy	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Duke Energy Florida, LLC (Duke Energy Florida)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Duke Energy Carolinas, LLC (Duke Energy Carolinas)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Duke Energy Ohio, Inc. (Duke Energy Ohio)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Progress Energy, Inc. (Progress Energy)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Duke Energy Indiana, LLC (Duke Energy Indiana)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Duke Energy Progress, LLC (Duke Energy Progress)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Piedmont Natural Gas Company, Inc. (Piedmont)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Exchange Act. Yes ☐ No ☒ (Response applicable to all registrants.)

Indicate by check mark whether the registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months

(or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes ☒ No ☐

Indicate by check mark whether the registrants have submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes ☒ No ☐

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K. ☐ (Only applicable to Duke Energy)

Indicate by check mark whether Duke Energy is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act:

Large accelerated filer ☒ Accelerated filer ☐ Non-accelerated filer ☐ Smaller reporting company ☐ Emerging growth company ☐

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether each of Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont is a large accelerated filer, accelerated filer, non-accelerated filer, smaller reporting company, or emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act: Large accelerated filer ☐ Accelerated filer ☐ Non-accelerated filer ☒ Smaller reporting company ☐ Emerging growth company ☐

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether each of the registrants is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes ☐ No ☒

Estimated aggregate market value of the common equity held by nonaffiliates of Duke Energy at June 30, 2018.

\$56,283,598,357

Number of shares of Common Stock, \$0.001 par value, outstanding at January 31, 2019.

727,010,882

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the Duke Energy definitive proxy statement for the 2019 Annual Meeting of the Shareholders or an amendment to this Annual Report are incorporated by reference into PART III, Items 10, 11 and 13 hereof. This combined Form 10-K is filed separately by eight registrants: Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont (collectively the Duke Energy Registrants). Information contained herein relating to any individual registrant is filed by such registrant solely on its own behalf. Each registrant makes no representation as to information relating exclusively to the other registrants.

Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont meet the conditions set forth in General Instructions I(1)(a) and (b) of Form 10-K and are, therefore, filing this Form 10-K with the reduced disclosure format specified in General Instructions I(2) of Form 10-K.

TABLE OF CONTENTS

FORM 10-K FOR THE YEAR ENDED DECEMBER 31, 2018

Item	Page
CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING INFORMATION	
GLOSSARY OF TERMS	
PART I.	
1. BUSINESS	6
DUKE ENERGY	6
GENERAL	6
BUSINESS SEGMENTS	6
EMPLOYEES	15
EXECUTIVE OFFICERS OF THE REGISTRANTS	15
ENVIRONMENTAL MATTERS	16
DUKE ENERGY CAROLINAS	16
PROGRESS ENERGY	16
DUKE ENERGY PROGRESS	16
DUKE ENERGY FLORIDA	16
DUKE ENERGY OHIO	17
DUKE ENERGY INDIANA	17
PIEDMONT	17
1A. RISK FACTORS	17
1B. UNRESOLVED STAFF COMMENTS	24
2. PROPERTIES	24
3. LEGAL PROCEEDINGS	28
4. MINE SAFETY DISCLOSURES	28
PART II.	
5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES	29
6. SELECTED FINANCIAL DATA	30
7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS	30
7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK	64
8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA	65
9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE	228
9A. CONTROLS AND PROCEDURES	228
PART III.	
10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE	230
11. EXECUTIVE COMPENSATION	230
12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS	230
13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE	230
14. PRINCIPAL ACCOUNTING FEES AND SERVICES	231
PART IV.	
15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES	232
EXHIBIT INDEX	E-1
SIGNATURES	E-25

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING INFORMATION

This document includes forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. Forward-looking statements are based on management's beliefs and assumptions and can often be identified by terms and phrases that include "anticipate," "believe," "intend," "estimate," "expect," "continue," "should," "could," "may," "plan," "project," "predict," "will," "potential," "forecast," "target," "guidance," "outlook" or other similar terminology. Various factors may cause actual results to be materially different than the suggested outcomes within forward-looking statements; accordingly, there is no assurance that such results will be realized. These factors include, but are not limited to:

- State, federal and foreign legislative and regulatory initiatives, including costs of compliance with existing and future environmental requirements, including those related to climate change, as well as rulings that affect cost and investment recovery or have an impact on rate structures or market prices;

- The extent and timing of costs and liabilities to comply with federal and state laws, regulations and legal requirements related to coal ash remediation, including amounts for required closure of certain ash impoundments, are uncertain and difficult to estimate;
- The ability to recover eligible costs, including amounts associated with coal ash impoundment retirement obligations and costs related to significant weather events, and to earn an adequate return on investment through rate case proceedings and the regulatory process;
- The costs of decommissioning Crystal River Unit 3 and other nuclear facilities could prove to be more extensive than amounts estimated and all costs may not be fully recoverable through the regulatory process;
- Costs and effects of legal and administrative proceedings, settlements, investigations and claims;
- Industrial, commercial and residential growth or decline in service territories or customer bases resulting from sustained downturns of the economy and the economic health of our service territories or variations in customer usage patterns, including energy efficiency efforts and use of alternative energy sources, such as self-generation and distributed generation technologies;
- Federal and state regulations, laws and other efforts designed to promote and expand the use of energy efficiency measures and distributed generation technologies, such as private solar and battery storage, in Duke Energy service territories could result in customers leaving the electric distribution system, excess generation resources as well as stranded costs;
- Advancements in technology;
- Additional competition in electric and natural gas markets and continued industry consolidation;
- The influence of weather and other natural phenomena on operations, including the economic, operational and other effects of severe storms, hurricanes, droughts, earthquakes and tornadoes, including extreme weather associated with climate change;
- The ability to successfully operate electric generating facilities and deliver electricity to customers including direct or indirect effects to the company resulting from an incident that affects the U.S. electric grid or generating resources;
- The ability to obtain the necessary permits and approvals and to complete necessary or desirable pipeline expansion or infrastructure projects in our natural gas business;
- Operational interruptions to our natural gas distribution and transmission activities;
- The availability of adequate interstate pipeline transportation capacity and natural gas supply;
- The impact on facilities and business from a terrorist attack, cybersecurity threats, data security breaches, operational accidents, information technology failures or other catastrophic events, such as fires, explosions, pandemic health events or other similar occurrences;
- The inherent risks associated with the operation of nuclear facilities, including environmental, health, safety, regulatory and financial risks, including the financial stability of third-party service providers;
- The timing and extent of changes in commodity prices and interest rates and the ability to recover such costs through the regulatory process, where appropriate, and their impact on liquidity positions and the value of underlying assets;
- The results of financing efforts, including the ability to obtain financing on favorable terms, which can be affected by various factors, including credit ratings, interest rate fluctuations, compliance with debt covenants and conditions and general market and economic conditions;
- Credit ratings of the Duke Energy Registrants may be different from what is expected;
- Declines in the market prices of equity and fixed-income securities and resultant cash funding requirements for defined benefit pension plans, other post-retirement benefit plans and nuclear decommissioning trust funds;
- Construction and development risks associated with the completion of the Duke Energy Registrants' capital investment projects, including risks related to financing, obtaining and complying with terms of permits, meeting construction budgets and schedules and satisfying operating and environmental performance standards, as well as the ability to recover costs from customers in a timely manner, or at all;
- Changes in rules for regional transmission organizations, including changes in rate designs and new and evolving capacity markets, and risks related to obligations created by the default of other participants;
- The ability to control operation and maintenance costs;
- The level of creditworthiness of counterparties to transactions;
- Employee workforce factors, including the potential inability to attract and retain key personnel;
- The ability of subsidiaries to pay dividends or distributions to Duke Energy Corporation holding company (the Parent);
- The performance of projects undertaken by our nonregulated businesses and the success of efforts to invest in and develop new opportunities;
- The effect of accounting pronouncements issued periodically by accounting standard-setting bodies;
- The impact of U.S. tax legislation to our financial condition, results of operations or cash flows and our credit ratings;
- The impacts from potential impairments of goodwill or equity method investment carrying values; and
- The ability to implement our business strategy, including enhancing existing technology systems.

Additional risks and uncertainties are identified and discussed in the Duke Energy Registrants' reports filed with the SEC and available at the SEC's website at sec.gov. In light of these risks, uncertainties and assumptions, the events described in the forward-looking statements might not occur or might occur to a different extent or at a different time than described. Forward-looking statements speak only as of the date they are made and the Duke Energy Registrants expressly disclaim an obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

Glossary of Terms

The following terms or acronyms used in this Form 10-K are defined below:

Term or Acronym	Definition	Term or Acronym	Definition
2013 Settlement	Revised and Restated Stipulation and Settlement Agreement approved in November 2013 among Duke Energy Florida, the Florida OPC and other customer advocates	Citrus County CC	Citrus County Combined Cycle Facility
the 2015 Plan	Duke Energy Corporation 2015 Long-Term Incentive Plan	CO ₂	Carbon Dioxide
2017 Settlement	Second Revised and Restated Settlement Agreement in 2017 among Duke Energy Florida, the Florida OPC and other customer advocates, which replaces and supplants the 2013 Settlement	Coal Ash Act	North Carolina Coal Ash Management Act of 2014
ACE	Affordable Clean Energy	COL	Combined Operating License
ACP	Atlantic Coast Pipeline, LLC, a limited liability company owned by Dominion, Duke Energy and Southern Company Gas	the Company	Duke Energy Corporation and its subsidiaries
ACP pipeline	The approximately 600-mile proposed interstate natural gas pipeline	Constitution	Constitution Pipeline Company, LLC
AFUDC	Allowance for funds used during construction	COSO	Committee of Sponsoring Organizations of the Treadway Commission
AFS	Available for Sale	CPCN	Certificate of Public Convenience and Necessity
the Agents	Wells Fargo Securities, LLC, Citigroup Global Market Inc., J.P. Morgan Securities, LLC	CPP	Clean Power Plan
ALJ	Administrative Law Judge	CRC	Cinergy Receivables Company LLC
AMI	Advanced Metering Infrastructure	Crystal River Unit 3	Crystal River Unit 3 Nuclear Plant
AMT	Alternative Minimum Tax	CSA	Comprehensive Site Assessment
AOCI	Accumulated Other Comprehensive Income (Loss)	CSAPR	Cross-State Air Pollution Rule
ARO	Asset Retirement Obligation	CT	Combustion Turbine
ASR	Accelerated Stock Repurchase Program	CTG	China Three Gorges (Luxembourg) Energy S.à.r.l.
ATM	At-the-market	CWA	Clean Water Act
Audit Committee	Audit Committee of the Board of Directors	DATC	Duke-American Transmission Co.
Barclays	Barclays Capital Inc.	D.C. Circuit Court	U.S. Court of Appeals for the District of Columbia
BCWF	Benton County Wind Farm, LLC	DCI	Distribution Capital Investment
Beckjord	Beckjord Generating Station	DEFPP	Duke Energy Florida Project Finance, LLC
Belews Creek	Belews Creek Steam Station	DEFR	Duke Energy Florida Receivables, LLC
Bison	Bison Insurance Company Limited	Deloitte	Deloitte & Touche LLP and the member firms of Deloitte Touche Tohmatsu and their respective affiliates
Board of Directors	Duke Energy Board of Directors	DEPR	Duke Energy Progress Receivables, LLC
Brunswick	Brunswick Nuclear Plant	DERF	Duke Energy Receivables Finance Company, LLC
CAA	Clean Air Act	DHHS	North Carolina Department of Health and Human Services
Cardinal	Cardinal Pipeline Company, LLC	Directors' Savings Plan	Duke Energy Corporation Directors' Savings Plan
Catawba	Catawba Nuclear Station	DOE	U.S. Department of Energy
CC	Combined Cycle	DOJ	Department of Justice
CCR	Coal Combustion Residuals	Dominion	Dominion Resources
CCS	Carbon Capture and Storage	DRIP	Dividend Reinvestment Program
CEPCN	Certificate of Environmental Compatibility and Public Convenience and Necessity	DSM	Demand Side Management
CEO	Chief Executive Officer	Duke Energy	Duke Energy Corporation (collectively with its subsidiaries)
CertainTeed	CertainTeed Gypsum NC, Inc.	Duke Energy Carolinas	Duke Energy Carolinas, LLC
Cinergy	Cinergy Corp. (collectively with its subsidiaries)	Duke Energy Florida	Duke Energy Florida, LLC
		Duke Energy Indiana	Duke Energy Indiana, LLC
		Duke Energy Kentucky	Duke Energy Kentucky, Inc.
		Duke Energy Ohio	Duke Energy Ohio, Inc.

Term or Acronym	Definition
Duke Energy Progress	Duke Energy Progress, LLC
Duke Energy Registrants	Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont
East Bend	East Bend Generating Station
the EDA	Equity Distribution Agreement
EE	Energy efficiency
EGU	Electric Generating Units
ELG	Effluent Limitations Guidelines
EPA	U.S. Environmental Protection Agency
EPC	Engineering, Procurement and Construction agreement
EPS	Earnings Per Share
ESP	Electric Security Plan
ETR	Effective tax rate
Exchange Act.	Securities Exchange Act of 1934
Executive Savings Plan	Duke Energy Corporation Executive Savings Plan
FASB	Financial Accounting Standards Board
FERC	Federal Energy Regulatory Commission
FES	FirstEnergy Solutions Corp.
Fitch	Fitch Ratings, Inc.
FirstEnergy	FirstEnergy Corp.
Florida OPC	Florida Office of Public Counsel
Form S-3	Registration statement
FP&L	Florida Power & Light Company
FPSC	Florida Public Service Commission
FTR	Financial transmission rights
Fluor	Fluor Enterprises, Inc.
FV-NI	Fair value through net income
GAAP	Generally Accepted Accounting Principles in the United States
GAAP Reported Earnings	Net Income Attributable to Duke Energy Corporation
GAAP Reported EPS	Diluted EPS Attributable to Duke Energy Corporation common stockholders
GHG	Greenhouse Gas
GWh	Gigawatt-hours
Hardy Storage	Hardy Storage Company, LLC
Harris	Shearon Harris Nuclear Plant
Hines	Hines Energy Complex
I Squared	ISQ Enerlam Aggregator, L.P. and Enerlam (UK) Holding Ltd.
IBNR	Incurred but not yet reported
ICPA	Inter-Company Power Agreement
IGCC	Integrated Gasification Combined Cycle
IMR	Integrity Management Rider
International Disposal Group	Duke Energy's international business, excluding National Methanol Company
IRP	Integrated Resource Plans
IRS	Internal Revenue Service
ISFSI	Independent Spent Fuel Storage Installation

Term or Acronym	Definition
ISO	Independent System Operator
ITC	Investment Tax Credit
IURC	Indiana Utility Regulatory Commission
Investment Trusts	Grantor trusts of Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana
JDA	Joint Dispatch Agreement
KO Transmission	KO Transmission Company
KPSC	Kentucky Public Service Commission
kV	Kilovolt
LDC	Local Distribution Company
Lee Nuclear Station	William States Lee III Nuclear Station
Levy	Duke Energy Florida's proposed nuclear plant in Levy County, Florida
LIBOR	London Interbank Offered Rate
LLC	Limited Liability Company
Master Trust	Duke Energy Corporation Master Retirement Trust
McGuire	McGuire Nuclear Station
Merger Agreement	The Agreement and Plan of Merger between Duke Energy and Piedmont
MGP	Manufactured gas plant
Midwest Generation Disposal Group	Duke Energy Ohio's nonregulated Midwest generation business and Duke Energy Retail Sales, LLC
MISO	Midcontinent Independent System Operator, Inc.
MMBtu	Million British Thermal Unit
MPP	Money Purchase Pension
Moody's	Moody's Investors Service, Inc.
MTBE	Methyl tertiary butyl ether
MTEP	MISO Transmission Expansion Planning
MW	Megawatt
MVP	Multi Value Projects
MWh	Megawatt-hour
NAAQS	National Ambient Air Quality Standards
NAV	Net asset value
NAW	North Allegheny Wind, LLC
NCDEQ	North Carolina Department of Environmental Quality (formerly the North Carolina Department of Environment and Natural Resources)
NCEMC	North Carolina Electric Membership Corporation
NCEMPA	North Carolina Eastern Municipal Power Agency
NCRS	Nuclear Power Plant Cost Recovery Statutes
NCUC	North Carolina Utilities Commission
NDTF	Nuclear decommissioning trust funds
NEIL	Nuclear Electric Insurance Limited
New Source Review	New Source Review (NSR) is a CAA program that requires industrial facilities to install modern pollution control equipment when they are built or when making a change that increases emissions significantly
NYSDEC	New York State Department of Environmental Conservation
NMC	National Methanol Company
NOL	Net operating loss

Term or Acronym	Definition
NOV.....	Notice of violation
NO _x	Nitrogen oxide
NPDES.....	National Pollutant Discharge Elimination System
NPNS.....	Normal purchase/normal sale
NPRM.....	Notice of Proposed Rulemaking
NRC.....	U.S. Nuclear Regulatory Commission
NSR.....	New Source Review
NWPA.....	Nuclear Waste Policy Act of 1982 (as amended)
NYSE.....	New York Stock Exchange
Oconee.....	Oconee Nuclear Station
OMB.....	Office of Management and Budget
OPEB.....	Other Post-Retirement Benefit Obligations
ORS.....	Office of Regulatory Staff
Osprey acquisition.....	Duke Energy Florida's purchase of a Calpine Corporation's 599-MW combined-cycle natural gas plant in Auburndale, Florida
OTTI.....	Other-than-temporary impairment
OVEC.....	Ohio Valley Electric Corporation
the Parent.....	Duke Energy Corporation holding company
PCAOB.....	Public Company Accounting Oversight Board
PGA.....	Purchased Gas Adjustments
Philadelphia Utility Index.....	Philadelphia Sector Index
PHMSA.....	Pipeline and Hazardous Materials Safety Administration
Piedmont.....	Piedmont Natural Gas Company, Inc.
Piedmont Pension Assets.....	Qualified pension plan assets associated with the Retirement Plan of Piedmont
Piedmont Term Loan.....	Term loan facility with commitments totaling \$350M entered in June 2017
Pine Needle.....	Pine Needle LNG Company, LLC
Pioneer.....	Pioneer Transmission, LLC
PJM.....	PJM Interconnection, LLC
PMPA.....	Piedmont Municipal Power Agency
PPA.....	Purchase Power Agreement
Progress Energy.....	Progress Energy, Inc.
PSCSC.....	Public Service Commission of South Carolina
PTC.....	Production Tax Credits
PUCO.....	Public Utilities Commission of Ohio
PUCO Order.....	Order issued by PUCO approving a settlement of Duke Energy Ohio's natural gas base rate case and authorizing the recovery of certain MGP costs
PURPA.....	Public Utility Regulatory Policies Act of 1978
QF.....	Qualifying Facility
RCRA.....	Resource Conservation and Recovery Act
REC.....	Renewable Energy Certificate
REC Solar.....	REC Solar Corp.
Relative TSR.....	TSR of Duke Energy stock relative to a predefined peer group

Term or Acronym	Definition
Robinson.....	Robinson Nuclear Plant
RRBA.....	Roanoke River Basin Association
RSU.....	Restricted Stock Unit
RTO.....	Regional Transmission Organization
SAB.....	Staff Accounting Bulletin
Sabal Trail.....	Sabal Trail Transmission, LLC
Sabal Trail pipeline.....	Sabal Trail Natural Gas Pipeline
SAFSTOR.....	A method of decommissioning in which a nuclear facility is placed and maintained in a condition that allows the facility to be safely stored and subsequently decontaminated to levels that permit release for unrestricted use
SEC.....	Securities and Exchange Commission
SEIS.....	Supplemental Environmental Impact Statement
SELC.....	Southern Environmental Law Center
Segment Income.....	Income from continuing operations net of income attributable to noncontrolling interests
SO ₂	Sulfur dioxide
SouthStar.....	SouthStar Energy Services, LLC
Spectra Capital.....	Spectra Energy Capital, LLC
S&P.....	Standard & Poor's Rating Services
S&P 500.....	Standard & Poor's 500 Stock Index
SSO.....	Standard Service Offer
State utility commissions.....	NCUC, PSCSC, FPSC, PUCO, IURC, KPSC and TPUC (Collectively)
State electric utility commissions.....	NCUC, PSCSC, FPSC, PUCO, IURC and KPSC (Collectively)
State gas utility commissions.....	NCUC, PSCSC, PUCO, TPUC and KPSC (Collectively)
Subsidiary Registrants.....	Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont
Sutton.....	L.V. Sutton Combined Cycle Plant
the Tax Act.....	Tax Cuts and Jobs Act
TDSIC.....	Transmission, Distribution and Storage System Improvement Charge
Three Year Revolver.....	Duke Energy (Parent) \$1.0 billion revolving credit facility
TPUC.....	Tennessee Public Utility Commission
TSCA.....	Toxic Substances Control Act
TSR.....	Total shareholder return
U.S.....	United States
U.S. Court of Appeals.....	U.S. Court of Appeals for the Second Circuit
VEBA.....	Voluntary Employees' Beneficiary Association
VIE.....	Variable Interest Entity
WACC.....	Weighted Average Cost of Capital
Westinghouse.....	Westinghouse Electric Company
WNA.....	Weather normalization adjustment
W.S. Lee CC.....	William States Lee Combined Cycle Facility
WVPA.....	Wabash Valley Power Association, Inc.

PART I

ITEM 1. BUSINESS

DUKE ENERGY

General

Duke Energy was incorporated on May 3, 2005, and is an energy company headquartered in Charlotte, North Carolina, subject to regulation by the FERC and other regulatory agencies listed below. Duke Energy operates in the U.S. primarily through its direct and indirect subsidiaries. Certain Duke Energy subsidiaries are also subsidiary registrants, including Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont. When discussing Duke Energy's consolidated financial information, it necessarily includes the results of its separate Subsidiary Registrants, which along with Duke Energy, are collectively referred to as the Duke Energy Registrants.

Piedmont, a North Carolina corporation, is an energy services company whose principal business is the distribution of natural gas to over 1 million residential, commercial, industrial and power generation customers in portions of North Carolina, South Carolina and Tennessee, including customers served by municipalities who are Piedmont's sales for resale customers. In October 2016, Duke Energy completed the acquisition of Piedmont. Piedmont's earnings and cash flows are only included in Duke Energy's consolidated results subsequent to the acquisition date. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information regarding the acquisition.

In December 2016, Duke Energy completed an exit of the Latin American market to focus on its domestic regulated business, which was further bolstered by the acquisition of Piedmont. The sale of the International Energy business segment, excluding an equity method investment in NMC, was completed through two transactions including a sale of assets in Brazil to CTG and a sale of Duke Energy's remaining Latin American assets in Peru, Chile, Ecuador, Guatemala, El Salvador and Argentina to I Squared (collectively, the International Disposal Group). See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information on the sale of International Energy.

The Duke Energy Registrants electronically file reports with the SEC, including Annual Reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, proxy statements and amendments to such reports.

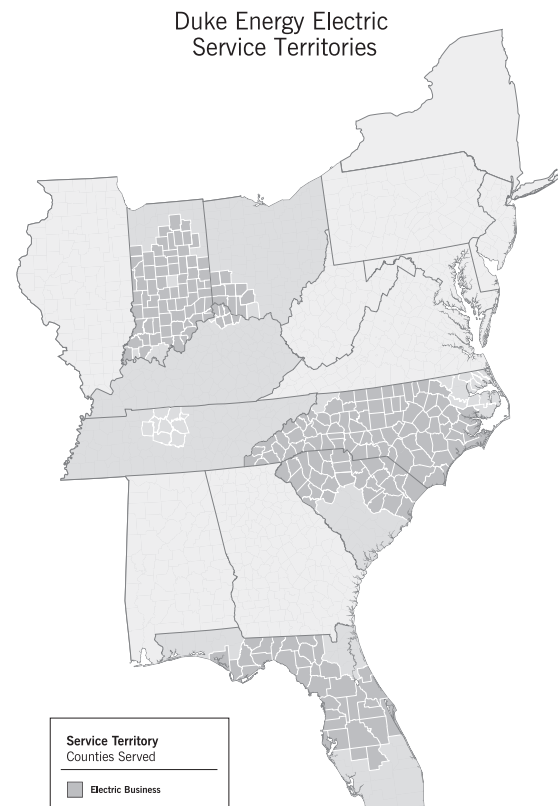
The SEC maintains an internet site that contains reports, proxy and information statements and other information regarding issuers that file electronically with the SEC at sec.gov. Additionally, information about the Duke Energy Registrants, including reports filed with the SEC, is available through Duke Energy's website at duke-energy.com. Such reports are accessible at no charge and are made available as soon as reasonably practicable after such material is filed with or furnished to the SEC.

Business Segments

Duke Energy's segment structure includes three reportable business segments: Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables. The remainder of Duke Energy's operations is presented as Other. Duke Energy's chief operating decision-maker routinely reviews financial information about each of these business segments in deciding how to allocate resources and evaluate the performance of the business. For additional information on each of these business segments, including financial and geographic information, see Note 3 to the Consolidated Financial Statements, "Business Segments." The following sections describe the business and operations of each of Duke Energy's business segments, as well as Other.

ELECTRIC UTILITIES AND INFRASTRUCTURE

Electric Utilities and Infrastructure conducts operations primarily through the regulated public utilities of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida, Duke Energy Indiana and Duke Energy Ohio. Electric Utilities and Infrastructure provides retail electric service through the generation, transmission, distribution and sale of electricity to approximately 7.7 million customers within the Southeast and Midwest regions of the U.S. The service territory is approximately 95,000 square miles across six states with a total estimated population of 24 million people. The operations include electricity sold wholesale to municipalities, electric cooperative utilities and other load-serving entities. Electric Utilities and Infrastructure is also a joint owner in certain electric transmission projects. Electric Utilities and Infrastructure has a 50 percent ownership interest in DATC, a partnership with American Transmission Company, formed to design, build and operate transmission infrastructure. DATC owns 72 percent of the transmission service rights to Path 15, an 84-mile transmission line in central California. Electric Utilities and Infrastructure also has a 50 percent ownership interest in Pioneer Transmission, LLC, which builds, owns and operates electric transmission facilities in North America. The following map shows the service territory for Electric Utilities and Infrastructure as of December 31, 2018.



PART I

The electric operations and investments in projects are subject to the rules and regulations of the FERC, the NRC, the NCUC, the PSCSC, the FPSC, the IURC, the PUCO and the KPSC.

The following table represents the distribution of billed sales by customer class for the year ended December 31, 2018.

	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Residential	32%	27%	50%	37%	28%
General service	32%	23%	37%	38%	25%
Industrial	24%	15%	7%	23%	31%
Total retail sales	88%	65%	94%	98%	84%
Wholesale and other sales	12%	35%	6%	2%	16%
Total sales	100%	100%	100%	100%	100%

The number of residential and general service customers within the Electric Utilities and Infrastructure service territory is expected to increase over time. While economic conditions within the service territory remain strong, sales growth continues to be influenced by adoption of energy efficiencies and self-generation. Residential sales for 2018 compared to 2017 saw relatively strong growth despite the impact from increasing amounts of energy efficiency. However, the continued adoption of more efficient housing and appliances is expected to have a negative impact on average usage per residential customer over time.

Seasonality and the Impact of Weather

Revenues and costs are influenced by seasonal weather patterns. Peak sales of electricity occur during the summer and winter months, which results in higher revenue and cash flows during these periods. By contrast, lower sales of electricity occur during the spring and fall, allowing for scheduled plant maintenance. Residential and general service customers are more impacted by weather than industrial customers. Estimated weather impacts are based on actual current period weather compared to normal weather conditions. Normal weather conditions are defined as the long-term average of actual historical weather conditions.

The estimated impact of weather on earnings is based on the temperature variances from a normal condition and customers' historic usage patterns. The methodology used to estimate the impact of weather does not consider all variables that may impact customer response to weather conditions such as humidity in the summer or wind chill in the winter. The precision of this estimate may also be impacted by applying long-term weather trends to shorter-term periods.

Heating-degree days measure the variation in weather based on the extent the average daily temperature falls below a base temperature. Cooling-degree days measure the variation in weather based on the extent the average daily temperature rises above the base temperature. Each degree of temperature below the base temperature counts as one heating-degree day and each degree of temperature above the base temperature counts as one cooling-degree day.

Competition

Retail

Electric Utilities and Infrastructure's businesses operate as the sole supplier of electricity within their service territories, with the exception of Ohio, which has a competitive electricity supply market for generation service. Electric Utilities and Infrastructure owns and operates facilities necessary to transmit, distribute and generate electricity. Services are priced by state commission approved rates designed to include the costs of providing these services and a reasonable return on invested capital. This regulatory policy is intended to provide safe and reliable electricity at fair prices.

In Ohio, Electric Utilities and Infrastructure conducts competitive auctions for electricity supply. The cost of energy purchased through these auctions is recovered from retail customers. Electric Utilities and Infrastructure earns retail margin in Ohio on the transmission and distribution of electricity, but not on the cost of the underlying energy.

Competition in the regulated electric distribution business is primarily from the development and deployment of alternative energy sources including on-site generation from industrial customers and distributed generation, such as private solar, at residential, general service and/or industrial customer sites.

Wholesale

Duke Energy competes with other utilities and merchant generators for bulk power sales, sales to municipalities and cooperatives and wholesale transactions under primarily cost-based contracts approved by FERC. The principal factors in competing for these sales are availability of capacity and power, reliability of service and price. Prices are influenced primarily by market conditions and fuel costs.

Increased competition in the wholesale electric utility industry and the availability of transmission access could affect Electric Utilities and Infrastructure's load forecasts, plans for power supply and wholesale energy sales and related revenues. Wholesale energy sales will be impacted by the extent to which additional generation is available to sell to the wholesale market and the ability of Electric Utilities and Infrastructure to attract new customers and to retain existing customers.

Energy Capacity and Resources

Electric Utilities and Infrastructure owns approximately 50,880 MW of generation capacity. For additional information on owned generation facilities, see Item 2, "Properties."

Energy and capacity are also supplied through contracts with other generators and purchased on the open market. Factors that could cause Electric Utilities and Infrastructure to purchase power for its customers may include, but are not limited to, generating plant outages, extreme weather conditions, generation reliability, demand growth and price. Electric Utilities and Infrastructure has interconnections and arrangements with its neighboring utilities to facilitate planning, emergency assistance, sale and purchase of capacity and energy and reliability of power supply.

Electric Utilities and Infrastructure's generation portfolio is a balanced mix of energy resources having different operating characteristics and fuel sources designed to provide energy at the lowest possible cost to meet its obligation to serve retail customers. All options, including owned generation resources and purchased power opportunities, are continually evaluated on a real-time basis to select and dispatch the lowest-cost resources available to meet system load requirements.

PART I

Sources of Electricity

Electric Utilities and Infrastructure relies principally on coal, nuclear fuel and natural gas for its generation of electricity. The following table lists sources of electricity and fuel costs for the three years ended December 31, 2018.

	Generation by Source			Cost of Delivered Fuel per Net Kilowatt-hour Generated (Cents)		
	2018	2017	2016	2018	2017	2016
Coal ^(a)	24.4%	27.4%	27.1%	2.82	2.72	3.07
Nuclear ^(a)	26.0%	27.8%	27.4%	0.50	0.69	0.66
Natural gas and oil ^(a)	26.2%	23.6%	22.9%	3.57	2.85	3.07
All fuels (cost-based on weighted average) ^(a)	76.6%	78.8%	77.4%	2.29	2.04	2.22
Hydroelectric and solar ^(b)	1.3%	0.7%	0.7%			
Total generation	77.9%	79.5%	78.1%			
Purchased power and net interchange	22.1%	20.5%	21.9%			
Total sources of energy	100.0%	100.0%	100.0%			

(a) Statistics related to all fuels reflect Electric Utilities and Infrastructure's ownership interest in jointly owned generation facilities.

(b) Generating figures are net of output required to replenish pumped storage facilities during off-peak periods.

Coal

Electric Utilities and Infrastructure meets its coal demand through a portfolio of long-term purchase contracts and short-term spot market purchase agreements. Large amounts of coal are purchased under long-term contracts with mining operators who mine both underground and at the surface. Electric Utilities and Infrastructure uses spot market purchases to meet coal requirements not met by long-term contracts. Expiration dates for its long-term contracts, which have various price adjustment provisions and market reopeners, range from 2019 to 2021 for Duke Energy Carolinas, Duke Energy Progress and Duke Energy Ohio, 2019 to 2020 for Duke Energy Florida and 2019 to 2025 for Duke Energy Indiana. Electric Utilities and Infrastructure expects to renew these contracts or enter into similar contracts with other suppliers as existing contracts expire, though prices will fluctuate over time as coal markets change. Electric Utilities and Infrastructure has an adequate supply of coal under contract to meet its hedging guidelines regarding projected future consumption. As a result of volatility in natural gas prices and the associated impacts on coal-fired dispatch within the generation fleet, coal inventories will continue to fluctuate. Electric Utilities and Infrastructure continues to actively manage its portfolio and has worked with suppliers to obtain increased flexibility in its coal contracts.

Coal purchased for the Carolinas is primarily produced from mines in Central Appalachia, Northern Appalachia and the Illinois Basin. Coal purchased for Florida is primarily produced from mines in Colorado and the Illinois Basin. Coal purchased for Kentucky is produced from mines along the Ohio River in Illinois, Ohio, West Virginia and Pennsylvania. Coal purchased for Indiana is primarily produced in Indiana and Illinois. The current average sulfur content of coal purchased by Electric Utilities and Infrastructure is between 1.5 percent and 2 percent for Duke Energy Carolinas and Duke Energy Progress, between 1 percent and 3 percent for Duke Energy Florida, between 3 percent and 3.5 percent for Duke Energy Ohio and between 2.5 percent and 3 percent for Duke Energy Indiana. Electric Utilities and Infrastructure's environmental controls, in combination with the use of SO₂ emission allowances, enable Electric Utilities and Infrastructure to satisfy current SO₂ emission limitations for its existing facilities.

Nuclear

The industrial processes for producing nuclear generating fuel generally involve the mining and milling of uranium ore to produce uranium concentrates and services to convert, enrich and fabricate fuel assemblies.

Electric Utilities and Infrastructure has contracted for uranium materials and services to fuel its nuclear reactors. Uranium concentrates, conversion services and enrichment services are primarily met through a diversified

portfolio of long-term supply contracts. The contracts are diversified by supplier, country of origin and pricing. Electric Utilities and Infrastructure staggers its contracting so that its portfolio of long-term contracts covers the majority of its fuel requirements in the near term and decreasing portions of its fuel requirements over time thereafter. Near-term requirements not met by long-term supply contracts have been and are expected to be fulfilled with spot market purchases. Due to the technical complexities of changing suppliers of fuel fabrication services, Electric Utilities and Infrastructure generally sources these services to a single domestic supplier on a plant-by-plant basis using multiyear contracts.

Electric Utilities and Infrastructure has entered into fuel contracts that cover 100 percent of its uranium concentrates, conversion services and enrichment services requirements through at least 2019 and cover fabrication services requirements for these plants through at least 2027. For future requirements not already covered under long-term contracts, Electric Utilities and Infrastructure believes it will be able to renew contracts as they expire or enter into similar contractual arrangements with other suppliers of nuclear fuel materials and services.

Natural Gas and Fuel Oil

Natural gas and fuel oil supply, transportation and storage for Electric Utilities and Infrastructure's generation fleet is purchased under standard industry agreements from various suppliers, including Piedmont. Natural gas supply agreements typically provide for a percentage of forecasted burns being procured over time, with varied expiration dates. Electric Utilities and Infrastructure believes it has access to an adequate supply of natural gas and fuel oil for the reasonably foreseeable future.

Electric Utilities and Infrastructure has certain dual-fuel generating facilities that can operate utilizing both natural gas and fuel oil. The cost of Electric Utilities and Infrastructure's natural gas and fuel oil is fixed price or determined by published market prices as reported in certain industry publications, plus any transportation and freight costs. Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana use derivative instruments to manage a portion of their exposure to price fluctuations for natural gas. For Duke Energy Florida, there is currently an agreed to moratorium on future hedging with the FPSC.

Electric Utilities and Infrastructure has firm interstate and intrastate natural gas transportation agreements and storage agreements in place to support generation needed for load requirements. Electric Utilities and Infrastructure may purchase additional shorter-term natural gas transportation and utilize natural gas interruptible transportation agreements to support generation needed for load requirements. The Electric Utilities and Infrastructure natural gas plants are served by various supply zones and multiple pipelines.

PART I

Purchased Power

Electric Utilities and Infrastructure purchases a portion of its capacity and system requirements through purchase obligations, leases and purchase

capacity contracts. Electric Utilities and Infrastructure believes it can obtain adequate purchased power capacity to meet future system load needs. However, during periods of high demand, the price and availability of purchased power may be significantly affected.

The following table summarizes purchased power for the previous three years:

	2018	2017	2016
Purchase obligations and leases (in millions of MWh) ^(a)	21.3	17.7	18.0
Purchase capacity under contract (in MW) ^(b)	4,025	4,028	4,588

(a) Represents approximately 7 percent of total system requirements for 2018, 2017 and 2016.

(b) These agreements include approximately 412 MW of firm capacity under contract by Duke Energy Florida with QFs.

Inventory

Electric Utilities and Infrastructure must maintain an adequate stock of fuel and materials and supplies in order to ensure continuous operation of generating facilities and reliable delivery to customers. As of December 31, 2018, the inventory balance for Electric Utilities and Infrastructure was approximately \$2.9 billion. For additional information on inventory, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

Additionally, the RCRA required closure timing depends upon meeting or continuing to meet certain criteria.

The Coal Ash Act leaves the decision on cost recovery determinations related to closure of coal ash surface impoundments to the normal ratemaking processes before utility regulatory commissions. Duke Energy Carolinas and Duke Energy Progress have included compliance costs associated with the EPA CCR rule and the Coal Ash Act in their respective rate case filings. During 2017, Duke Energy Carolinas' and Duke Energy Progress' wholesale contracts were amended to include the recovery of expenditures related to asset retirement obligations for the closure of coal ash basins. The amended contracts have retail disallowance parity or provisions limiting challenges to CCR cost recovery actions at FERC. FERC approved the amended wholesale rate schedules in 2017. For additional information on the ash basins and recovery, see Item 7, "Other Matters" and Notes 4, 5 and 9 to the Consolidated Financial Statements, "Regulatory Matters," "Commitments and Contingencies" and "Asset Retirement Obligations," respectively.

Ash Basin Management

During 2015, EPA regulations were enacted related to the management of CCR from power plants. These regulations classify CCR as nonhazardous waste under the RCRA and apply to electric generating sites with new and existing landfills, new and existing surface impoundments, structural fills and CCR piles, and establishes requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring, protection and remedial procedures and other operational and reporting procedures for the disposal and management of CCR. In addition to the federal regulations, CCR landfills and surface impoundments (ash basins or impoundments) will continue to be independently regulated by existing state laws, regulations and permits, including the Coal Ash Act in North Carolina.

Electric Utilities and Infrastructure has and will periodically submit to applicable authorities required site-specific coal ash impoundment remediation or closure plans. These plans and all associated permits must be approved before any work can begin. Closure activities began in 2015 at the four sites specified as high priority by the Coal Ash Act and at the W.S. Lee Steam Station site in South Carolina in connection with other legal requirements. Excavation at these sites involves movement of CCR materials to off-site locations for use as structural fill, to appropriate engineered off-site or on-site lined landfills or conversion of the ash for beneficial use. At other sites, preliminary planning and closure methods have been studied and factored into the estimated retirement and management costs. The Coal Ash Act requires CCR surface impoundments in North Carolina to be closed, with the closure method and timing based on a risk ranking classification determined by legislation or state regulators.

Nuclear Matters

Duke Energy owns, wholly or partially, 11 operating nuclear reactors located at six operating stations. The Crystal River Unit 3 permanently ceased operation in February 2013. Nuclear insurance includes: nuclear liability coverage; property damage coverage; nuclear accident decontamination and premature decommissioning coverage; and accidental outage coverage for losses in the event of a major accidental outage. Joint owners reimburse Duke Energy for certain expenses associated with nuclear insurance in accordance with joint owner agreements. The Price-Anderson Act requires plant owners to provide for public nuclear liability claims resulting from nuclear incidents to the maximum total financial protection liability, which is approximately \$14.1 billion. For additional information on nuclear insurance see Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies."

Duke Energy has a significant future financial commitment to dispose of spent nuclear fuel and decommission and decontaminate each plant safely. The NCUC, PSCSC and FPSC require Duke Energy to update their cost estimates for decommissioning their nuclear plants every five years.

The following table summarizes the fair value of NDTF balances and the most recent site-specific nuclear decommissioning cost study results for Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida. Decommissioning costs are stated in 2018 dollars for Duke Energy Carolinas, 2017 dollars for Duke Energy Florida and 2014 dollars for Duke Energy Progress, and include costs to decommission plant components not subject to radioactive contamination.

(in millions)	NDTF ^(a)		Decommissioning Costs ^(a)	Year of Cost Study
	December 31, 2018	December 31, 2017		
Duke Energy	\$ 6,720	\$ 7,097	\$ 8,737	2014 and 2018
Duke Energy Carolinas ^{(b)(c)}	3,558	3,772	4,291	2018
Duke Energy Progress	2,503	2,588	3,550	2014
Duke Energy Florida ^(d)	659	736	896	2018

(a) Amounts for Progress Energy equal the sum of Duke Energy Progress and Duke Energy Florida.

(b) Decommissioning cost for Duke Energy Carolinas reflects its ownership interest in jointly owned reactors. Other joint owners are responsible for decommissioning costs related to their interest in the reactors.

(c) Duke Energy Carolinas' site-specific nuclear decommissioning cost study completed in 2018 is expected to be filed with the NCUC and PSCSC by the second quarter 2019. Duke Energy Carolinas will also complete a new funding study, which will be completed and filed with the NCUC and PSCSC in 2019.

(d) Duke Energy Florida's site-specific nuclear decommissioning cost study and a new funding study were completed and filed with the FPSC in 2018. For the years ended December 31, 2017 and December 31, 2018, Duke Energy Florida received reimbursements from the NDTF for costs related to ongoing decommissioning activity of Crystal River Unit 3.

PART I

The NCUC, PSCSC, FPSC and FERC have allowed Electric Utilities and Infrastructure to recover estimated decommissioning costs through retail and wholesale rates over the expected remaining service periods of their nuclear stations. Electric Utilities and Infrastructure believes the decommissioning costs being recovered through rates, when coupled with the existing fund balances and expected fund earnings, will be sufficient to provide for the cost of future decommissioning. For additional information, see Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations."

The NWPA provides the framework for development by the federal government of interim storage and permanent disposal facilities for high-level radioactive waste materials. The DOE terminated the project to license and develop a geologic repository at Yucca Mountain, Nevada in 2010, and is currently taking no action to fulfill its responsibilities to dispose of spent fuel.

Under federal law, the DOE is responsible for the selection and construction of a facility for the permanent disposal of spent nuclear fuel and high-level radioactive waste. The DOE terminated the project to license and develop a geologic repository at Yucca Mountain, Nevada in 2010, and is currently taking no action to fulfill its responsibilities to dispose of spent fuel.

Until the DOE begins to accept the spent nuclear fuel, Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida will continue to safely manage their spent nuclear fuel. Under current regulatory guidelines, Harris has sufficient storage capacity in its spent fuel pools through the expiration of its renewed operating license. Crystal River Unit 3 ceased operation in 2013 and was placed in a SAFSTOR condition in January 2018. As of January 2018, all spent fuel at Crystal River Unit 3 has been transferred from the spent fuel pool to dry storage at an on-site ISFSI. With certain modifications and approvals by the NRC to expand the on-site dry cask storage facilities, spent nuclear fuel dry storage facilities will be sufficient to provide storage space of spent fuel through the expiration of the operating licenses, including any license renewals, for Brunswick, Catawba, McGuire, Oconee and Robinson.

The nuclear power industry faces uncertainties with respect to the cost and long-term availability of disposal sites for spent nuclear fuel and other radioactive waste, compliance with changing regulatory requirements, capital outlays for modifications and new plant construction.

Electric Utilities and Infrastructure is subject to the jurisdiction of the NRC for the design, construction and operation of its nuclear generating facilities. The following table includes the current year of expiration of nuclear operating licenses for nuclear stations in operation. Nuclear operating licenses are potentially subject to extension.

Unit	Year of Expiration
Duke Energy Carolinas	
Catawba Units 1 and 2	2043
McGuire Unit 1	2041
McGuire Unit 2	2043
Oconee Units 1 and 2	2033
Oconee Unit 3	2034
Duke Energy Progress	
Brunswick Unit 1	2036
Brunswick Unit 2	2034
Harris	2046
Robinson	2030

The NRC has acknowledged permanent cessation of operation and permanent removal of fuel from the reactor vessel at Crystal River Unit 3. Therefore, the license no longer authorizes operation of the reactor. For additional information on nuclear decommissioning activity, see Notes 4 and 9 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively.

On October 27, 2016, and December 15, 2016, the NRC issued combined operating licenses for Levy and Lee Nuclear Station, respectively. On August 29, 2017, Duke Energy announced the complete abandonment of the Levy project; the operating license was formally terminated on April 26, 2018. On August 25, 2017, as part of Duke Energy Carolinas rate case filing, Duke Energy Carolinas requested NCUC approval to cancel the development of the Lee Nuclear Station project with the intent to maintain the combined operating licenses. For additional information on the Lee Nuclear Station, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

Regulation

State

The NCUC, PSCSC, FPSC, PUCO, IURC and KPSC (collectively, the state electric utility commissions) approve rates for Duke Energy's retail electric service within their respective states. The state electric utility commissions, to varying degrees, have authority over the construction and operation of Electric Utilities and Infrastructure's generating facilities. CPCN issued by the state electric utility commissions, as applicable, authorize Electric Utilities and Infrastructure to construct and operate its electric facilities and to sell electricity to retail and wholesale customers. Prior approval from the relevant state electric utility commission is required for the entities within Electric Utilities and Infrastructure to issue securities. The underlying concept of utility ratemaking is to set rates at a level that allows the utility to collect revenues equal to its cost of providing service plus earn a reasonable rate of return on its invested capital, including equity.

In addition to rates approved in base rate cases, each of the state electric utility commissions allow recovery of certain costs through various cost-recovery clauses to the extent the respective commission determines in periodic hearings that such costs, including any past over or under-recovered costs, are prudent.

Fuel, fuel-related costs and certain purchased power costs are eligible for recovery by Electric Utilities and Infrastructure. Electric Utilities and Infrastructure uses coal, hydroelectric, natural gas, oil, renewable generation and nuclear fuel to generate electricity, thereby maintaining a diverse fuel mix that helps mitigate the impact of cost increases in any one fuel. Due to the associated regulatory treatment and the method allowed for recovery, changes in fuel costs from year to year have no material impact on operating results of Electric Utilities and Infrastructure, unless a commission finds a portion of such costs to have been imprudent. However, delays between the expenditure for fuel costs and recovery from customers can adversely impact the timing of cash flows of Electric Utilities and Infrastructure.

PART I

The table below reflects significant electric rate case applications approved and effective in the past three years or applications currently pending approval.

	Regulatory Body	Annual Increase (Decrease) (in millions)	Return on Equity	Equity Component of Capital Structure	Effective Date
Approved Rate Cases:					
Duke Energy Carolinas 2017 North Carolina Rate Case	NCUC	\$ (73)	9.9%	52%	8/1/2018
Duke Energy Progress 2017 North Carolina Rate Case	NCUC	151	9.9%	52%	3/16/2018
Duke Energy Ohio 2017 Ohio Electric Rate Case	PUCO	(19)	9.84%	50.75%	1/2/2019
Duke Energy Kentucky 2017 Kentucky Electric Rate Case	KPSC	8	9.725%	49%	5/1/2018
Duke Energy Progress 2016 South Carolina Rate Case	PSCSC	(a)	10.1%	53%	1/1/2017
Pending Rate Cases:					
Duke Energy Carolinas 2018 South Carolina Rate Case	PSCSC	\$ 168	10.5%	53%	6/1/2019
Duke Energy Progress 2018 South Carolina Rate Case	PSCSC	59	10.5%	53%	6/1/2019

(a) An increase of approximately \$38 million in revenues was effective January 1, 2017, and an additional increase of approximately \$19 million in revenues was effective January 1, 2018.

For more information on rate matters and other regulatory proceedings, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

Federal

The FERC approves Electric Utilities and Infrastructure's cost-based rates for electric sales to certain power and transmission wholesale customers. Regulations of FERC and the state electric utility commissions govern access to regulated electric and other data by nonregulated entities and services provided between regulated and nonregulated energy affiliates. These regulations affect the activities of nonregulated affiliates with Electric Utilities and Infrastructure.

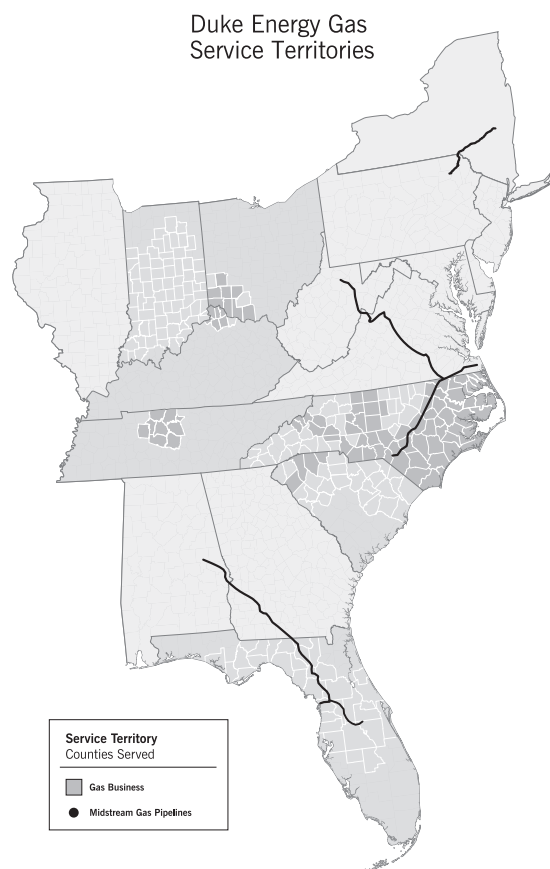
Regional Transmission Organizations (RTO). PJM and MISO are the ISOs and FERC-approved RTOs for the regions in which Duke Energy Ohio and Duke Energy Indiana operate. PJM and MISO operate energy, capacity and other markets, and control the day-to-day operations of bulk power systems through central dispatch.

Duke Energy Ohio is a member of PJM and Duke Energy Indiana is a member of MISO. Transmission owners in these RTOs have turned over control of their transmission facilities and their transmission systems are currently under the dispatch control of the RTOs. Transmission service is provided on a regionwide, open-access basis using the transmission facilities of the RTO members at rates based on the costs of transmission service.

Environmental. Electric Utilities and Infrastructure is subject to the jurisdiction of the EPA and state and local environmental agencies. For a discussion of environmental regulation, see "Environmental Matters" in this section. See the "Other Matters" section of Management's Discussion and Analysis for a discussion about potential Global Climate Change legislation and other EPA regulations under development and the potential impacts such legislation and regulation could have on Duke Energy's operations.

GAS UTILITIES AND INFRASTRUCTURE

Gas Utilities and Infrastructure conducts natural gas operations primarily through the regulated public utilities of Piedmont and Duke Energy Ohio. The natural gas operations are subject to the rules and regulations of the NCUC, PSCSC, PUCO, KPSC, TPUC, PHMSA and the FERC. Gas Utilities and Infrastructure serves residential, commercial, industrial and power generation natural gas customers, including customers served by municipalities who are wholesale customers. Gas Utilities and Infrastructure has over 1.6 million customers, including more than 1.1 million customers located in North Carolina, South Carolina and Tennessee, and an additional 531,000 customers located within southwestern Ohio and northern Kentucky. In the Carolinas, Ohio and Kentucky, the service areas are comprised of numerous cities, towns and communities. In Tennessee, the service area is the metropolitan area of Nashville. The following map shows the service territory and investments in operating and proposed midstream properties for Gas Utilities and Infrastructure as of December 31, 2018.



The number of residential, commercial and industrial customers within the Gas Utilities and Infrastructure service territory is expected to increase over time. Average usage per residential customer is expected to remain flat or decline for the foreseeable future, however decoupled rates in North Carolina and various rate design mechanisms in other jurisdictions partially mitigate the impact of the declining usage per customer on overall profitability. While total industrial and general service sales increased in 2018 when compared to 2017, the growth rate was modest when compared to historical periods.

Gas Utilities and Infrastructure also owns, operates and has investments in various pipeline transmission and natural gas storage facilities.

PART I

Natural Gas for Retail Distribution

Gas Utilities and Infrastructure is responsible for the distribution of natural gas to retail customers in its North Carolina, South Carolina, Tennessee, Ohio and Kentucky service territories. Gas Utilities and Infrastructure's natural gas procurement strategy is to contract primarily with major and independent producers and marketers for natural gas supply. It also purchases a diverse portfolio of transportation and storage service from interstate pipelines. This strategy allows Gas Utilities and Infrastructure to assure reliable natural gas supply and transportation for its firm customers during peak winter conditions. When firm pipeline services or contracted natural gas supplies are temporarily not needed due to market demand fluctuations, Gas Utilities and Infrastructure may release these services and supplies in the secondary market under FERC-approved capacity release provisions or make wholesale secondary market sales. In 2018, firm supply purchase commitment agreements provided 100 percent of the natural gas supply for both Piedmont and Duke Energy Ohio.

Impact of Weather

Gas Utilities and Infrastructure revenues are generally protected from the impact of weather fluctuations due to the regulatory mechanisms that are available in most service territories. In North Carolina, margin decoupling provides protection from both weather and other usage variations like conservation for residential and commercial customer classes. Margin decoupling provides a set revenue per customer independent of actual usage. In South Carolina and Tennessee, weather normalization adjusts revenues either up or down depending on how much warmer or colder than normal a given month has been. Weather normalization adjustments occur from November through March in South Carolina and from October through April in Tennessee. Ohio collects most of its non-fuel revenue through a fixed monthly charge that is not impacted by usage fluctuations that result from weather changes or conservation. Kentucky, however, bills based on volumetric rates without weather protection.

Competition

Gas Utilities and Infrastructure's businesses operate as the sole provider of natural gas service within their retail service territories. Gas Utilities and Infrastructure owns and operates facilities necessary to transport and distribute natural gas. Gas Utilities and Infrastructure earns retail margin on the transmission and distribution of natural gas and not on the cost of the underlying commodity. Services are priced by state commission approved rates designed to include the costs of providing these services and a reasonable return on invested capital. This regulatory policy is intended to provide safe and reliable natural gas service at fair prices.

In residential, commercial and industrial customer markets, natural gas distribution operations compete with other companies that supply energy, primarily electric companies, propane and fuel oil dealers, renewable energy providers and coal companies in relation to sources of energy for electric power plants, as well as nuclear energy. A significant competitive factor is price. Gas Utilities and Infrastructure's primary product competition is with electricity for heating, water heating and cooking. Increases in the price of natural gas or decreases in the price of other energy sources could negatively impact competitive position by decreasing the price benefits of natural gas to the consumer. In the case of industrial customers, such as manufacturing plants, adverse economic or market conditions, including higher natural gas costs, could cause these customers to suspend business operations or to use alternative sources of energy in favor of energy sources with lower per-unit costs.

Higher natural gas costs or decreases in the price of other energy sources may allow competition from alternative energy sources for applications that have traditionally used natural gas, encouraging some customers to move away from natural gas-fired equipment to equipment fueled by other energy sources. Competition between natural gas and other forms of energy is also based on efficiency, performance, reliability, safety and other non-price factors. Technological improvements in other energy sources and events that impair

the public perception of the non-price attributes of natural gas could erode our competitive advantage. These factors in turn could decrease the demand for natural gas, impair our ability to attract new customers and cause existing customers to switch to other forms of energy or to bypass our systems in favor of alternative competitive sources. This could result in slow or no customer growth and could cause customers to reduce or cease using our product, thereby reducing our ability to make capital expenditures and otherwise grow our business, adversely affecting our earnings.

Pipeline and Storage Investments

Duke Energy, through its Gas Utilities and Infrastructure segment, is a 47 percent equity member of ACP, which plans to build and own the proposed ACP pipeline, an approximately 600-mile interstate natural gas pipeline, regulated by FERC. The ACP pipeline is intended to transport diverse natural gas supplies into southeastern markets. Duke Energy Carolinas, Duke Energy Progress and Piedmont, among others, will be customers of the ACP pipeline. ACP expects to achieve a late 2020 in-service date for key segments of the project, while it expects a remainder to extend into 2021. Abnormal weather, work delays (including delays due to judicial or regulatory action) and other conditions may result in cost or schedule modifications in the future. ACP and Duke Energy will continue to consider their options with respect to the foregoing in light of their existing contractual and legal obligations.

Gas Utilities and Infrastructure also has a 7.5 percent equity ownership interest in Sabal Trail. Sabal Trail is a joint venture that owns the Sabal Trail pipeline to transport natural gas to Florida, regulated by FERC. The Sabal Trail phase one mainline was placed into service in July 2017 and traverses Alabama, Georgia and Florida. The remaining lateral line to the Duke Energy Florida's Citrus County CC was placed into service in March 2018.

Gas Utilities and Infrastructure has a 24 percent equity ownership interest in Constitution, an interstate pipeline development company formed to develop, construct, own and operate a 124-mile natural gas pipeline and related facilities, regulated by FERC. Constitution is slated to transport natural gas supplies from the Marcellus supply region in northern Pennsylvania to major northeastern markets. As a result of permitting delays and project uncertainty, Constitution is unable to approximate an in-service date.

Duke Energy, through its Gas Utilities and Infrastructure segment, has a 21.49 percent equity ownership interest in Cardinal, an intrastate pipeline located in North Carolina regulated by the NCUC, a 45 percent equity ownership in Pine Needle, an interstate liquefied natural gas storage facility located in North Carolina and a 50 percent equity ownership interest in Hardy Storage, an underground interstate natural gas storage facility located in Hardy and Hampshire counties in West Virginia. Pine Needle and Hardy Storage are regulated by FERC.

KO Transmission, a wholly owned subsidiary of Duke Energy Ohio, is an interstate pipeline company engaged in the business of transporting natural gas and is subject to the rules and regulations of FERC. KO Transmission's 90-mile pipeline supplies natural gas to Duke Energy Ohio and interconnects with the Columbia Gulf Transmission pipeline and Tennessee Gas Pipeline. An approximately 70-mile portion of KO Transmission's pipeline facilities is co-owned by Columbia Gas Transmission Corporation.

See Notes 4, 12 and 17 to the Consolidated Financial Statements, "Regulatory Matters," "Investments in Unconsolidated Affiliates" and "Variable Interest Entities," respectively, for further information on Duke Energy's pipeline investments.

Inventory

Gas Utilities and Infrastructure must maintain adequate natural gas inventory in order to provide reliable delivery to customers. As of December 31, 2018, the inventory balance for Gas Utilities and Infrastructure was \$105 million. For more information on inventory, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

PART I

Regulation

State

The NCUC, PSCSC, PUCO, TPUC and KPSC (collectively, the state gas utility commissions) approve rates for Duke Energy's retail natural gas service within their respective states. The state gas utility commissions, to varying degrees, have authority over the construction and operation of Gas Utilities and Infrastructure's natural gas distribution facilities. CPCN or Certificates of Environmental Compatibility and Public Necessity issued by the state gas utility commissions or other government agencies, as applicable, authorize Gas Utilities and Infrastructure to construct and operate its natural gas distribution facilities and to sell natural gas to retail and wholesale customers. Prior approval from the relevant state gas utility commission is required for Gas Utilities and Infrastructure to issue securities. The underlying concept of utility

ratemaking is to set rates at a level that allows the utility to collect revenues equal to its cost of providing service plus a reasonable rate of return on its invested capital, including equity.

In addition to amounts collected from customers through approved base rates, each of the state gas utility commissions allow recovery of certain costs through various cost-recovery clauses to the extent the respective commission determines in periodic hearings that such costs, including any past over- or under-recovered costs, are prudent.

Natural gas costs are eligible for recovery by Gas Utilities and Infrastructure. Due to the associated regulatory treatment and the method allowed for recovery, changes in natural gas costs from year to year have no material impact on operating results of Gas Utilities and Infrastructure, unless a commission finds a portion of such costs to have not been prudent. However, delays between the expenditure for natural gas and recovery from customers can adversely impact the timing of cash flows of Gas Utilities and Infrastructure.

The following table summarizes certain components underlying recently approved and effective base rates or rate stabilization filings in the last three years.

	Annual Increase (Decrease) (in millions)	Return on Equity	Equity Component of Capital Structure	Effective Date
Approved Rate Cases:				
Piedmont 2016 South Carolina Rate Stabilization Adjustment Filing	\$ 8	10.2%	53.0%	November 2016
Piedmont 2017 South Carolina Rate Stabilization Adjustment Filing	6	10.2%	53.0%	November 2017
Piedmont 2018 South Carolina Rate Stabilization Adjustment Filing	(14)	10.2%	53.0%	November 2018
Pending Rate Cases:				
Duke Energy Kentucky 2018 Kentucky Gas Rate Case	\$ 11	9.9%	50.755%	April 2019

Gas Utilities and Infrastructure has IMR mechanisms in North Carolina and Tennessee designed to separately track and recover certain costs associated with capital investments incurred to comply with federal pipeline safety and integrity programs, as well as additional state safety and integrity requirements in Tennessee. The following table summarizes information related to recently approved or pending IMR filings.

(in millions)	Cumulative Investment	Annual Margin Revenues	Effective Date
Piedmont 2018 IMR Filing – North Carolina	\$ 924	\$ 81	December 2018
Pending Filing:			
Piedmont 2018 IMR Filing – Tennessee	\$ 259	\$ 26	Proposed Effective Date January 2019

For more information on rate matters and other regulatory proceedings, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

regulations under development and the potential impacts such legislation and regulation could have on Duke Energy's operations.

Federal

Gas Utilities and Infrastructure is subject to various federal regulations, including regulations that are particular to the natural gas industry. These federal regulations include but are not limited to the following:

- Regulations of the FERC affect the certification and siting of new interstate natural gas pipeline projects, the purchase and sale of, the prices paid for, and the terms and conditions of service for the interstate transportation and storage of natural gas.
- Regulations of the PHMSA affect the design, construction, operation, maintenance, integrity, safety and security of natural gas distribution and transmission systems.
- Regulations of the EPA relate to the environment including proposed air emissions regulations that would expand to include emissions of methane. For a discussion of environmental regulation, see "Environmental Matters" in this section. Refer to the "Other Matters" section of Management's Discussion and Analysis for a discussion about potential Global Climate Change legislation and other EPA

Regulations of FERC and the state gas utility commissions govern access to regulated natural gas and other data by nonregulated entities and services provided between regulated and nonregulated energy affiliates. These regulations affect the activities of nonregulated affiliates with Gas Utilities and Infrastructure.

Environmental. Gas Utilities and Infrastructure is subject to the jurisdiction of the EPA and state and local environmental agencies. For a discussion of environmental regulation, see "Environmental Matters" in this section. See "Other Matters" section of Management's Discussion and Analysis for a discussion about potential Global Climate Change legislation and other EPA regulations under development and the potential impacts such legislation and regulation could have on Duke Energy's operations.

COMMERCIAL RENEWABLES

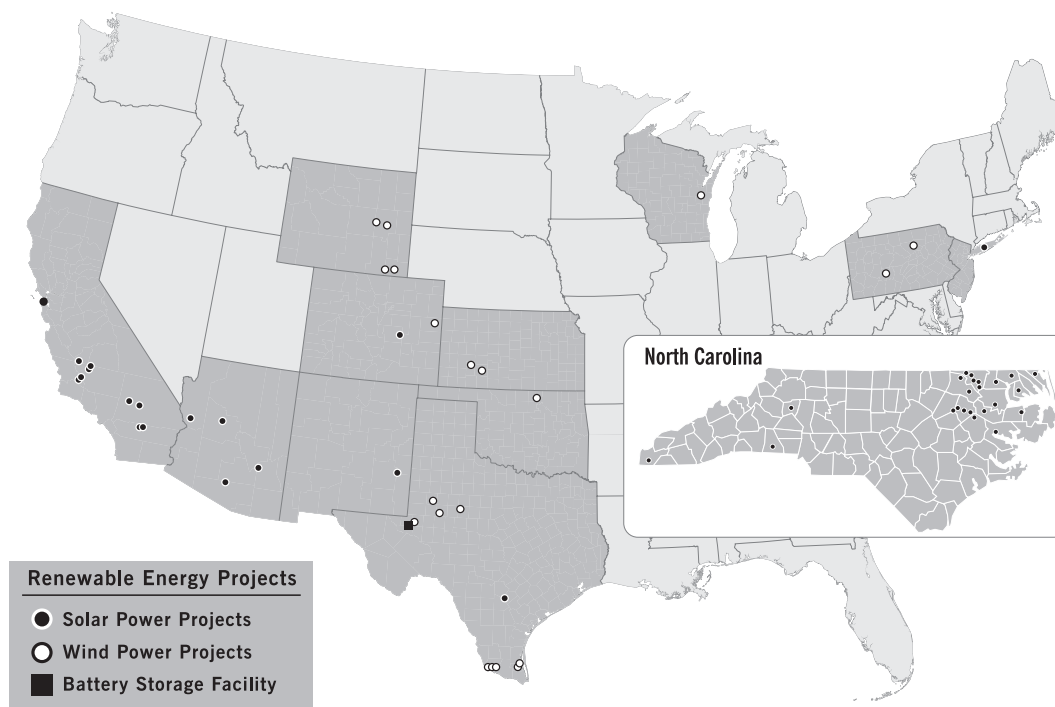
Commercial Renewables primarily acquires, develops, builds, operates and owns wind and solar renewable generation throughout the continental U.S. The portfolio includes nonregulated renewable energy and energy storage businesses.

PART I

Commercial Renewables' renewable energy includes utility-scale wind and solar generation assets, distributed solar generation assets and a battery storage project, which total 2,991 MW across 19 states from 21 wind facilities, 100 solar facilities and one battery storage facility. Revenues are primarily generated by selling the power produced from renewable generation through long-term contracts to utilities, electric cooperatives, municipalities and

commercial and industrial customers. In most instances, these customers have obligations under state-mandated renewable energy portfolio standards or similar state or local renewable energy goals. Energy and renewable energy credits generated by wind and solar projects are generally sold at contractual prices. The following map shows the service territory for Commercial Renewables as of December 31, 2018.

Commercial Renewables Portfolio



As eligible wind and solar projects are placed in service, Commercial Renewables recognizes either PTCs as power is generated by wind projects over 10 years or ITCs when the renewable solar or wind project achieves commercial availability. ITCs are recognized over the useful life of the asset as a reduction to depreciation expense with the benefit of the tax basis adjustment due to the ITC being recognized in income in the year of commercial availability. The ITC is being phased down from the current 30 percent rate to a permanent 10 percent rate if construction begins in 2019 through 2022. The PTC is being phased out and wind turbines will earn 10 years of PTCs at phased-out rates if construction begins in 2017 through 2019.

As part of its growth strategy, Commercial Renewables has expanded its investment portfolio through the addition of distributed solar companies and projects, energy storage systems and energy management solutions specifically tailored to commercial businesses. These investments include REC Solar Corp., a California-based provider of solar installations for retail, manufacturing, agriculture, technology, government and nonprofit customers across the U.S. and Phoenix Energy Technologies Inc., a California-based provider of enterprise energy management and information software to commercial businesses.

Commercial Renewables has entered into agreements for certain of its solar generating assets that are held by LLCs whose members include a noncontrolling tax equity investor. The allocation of earnings, tax attributes and cash distributions to the tax equity investor are based on certain of the

liquidation provisions pursuant to the LLC agreements. The allocations to the tax equity investors can result in variability in earnings to Duke Energy. As part of its growth strategy, Commercial Renewables expects to enter into these arrangements for future wind and solar generating assets.

For additional information on Commercial Renewables' generation facilities, see Item 2, "Properties."

Market Environment and Competition

Commercial Renewables primarily competes for wholesale contracts for the generation and sale of electricity from wind and solar generation assets it either develops or acquires and owns. The market price of commodities and services, along with the quality and reliability of services provided, drive competition in the wholesale energy business. The number and type of competitors may vary based on location, generation type and project size. Commercial Renewables' main competitors include other nonregulated generators and wholesale power providers.

Sources of Electricity

Commercial Renewables relies on wind, solar and battery resources for its generation of electric energy.

PART I

Regulation

Commercial Renewables is subject to regulation at the federal level, primarily from the FERC. Regulations of the FERC govern access to regulated market information by nonregulated entities and services provided between regulated and nonregulated utilities.

OTHER

The remainder of Duke Energy's operations is presented as Other. While it is not a business segment, Other primarily includes interest expense on holding company debt, unallocated corporate costs including costs to achieve strategic acquisitions, amounts related to certain companywide initiatives and contributions made to the Duke Energy Foundation. Other also includes Bison and an investment in NMC.

The Duke Energy Foundation is a nonprofit organization funded by Duke Energy shareholders that makes charitable contributions to selected nonprofits and government subdivisions.

Bison, a wholly owned subsidiary of Duke Energy, is a captive insurance company with the principal activity of providing Duke Energy subsidiaries with

indemnification for financial losses primarily related to property, workers' compensation and general liability.

Duke Energy owns a 17.5 percent equity interest in NMC. The joint venture company has production facilities in Jubail, Saudi Arabia where it manufactures certain petrochemicals and plastics. The company annually produces approximately 1 million metric tons each of MTBE and methanol and has the capacity to produce 50,000 metric tons of polyacetal. The main feedstocks to produce these products are natural gas and butane. Duke Energy records the investment activity of NMC using the equity method of accounting and retains 25 percent of NMC's board of directors representation and voting rights.

Employees

On December 31, 2018, Duke Energy had a total of 30,083 employees on its payroll. The total includes 5,446 employees who are represented by labor unions under various collective bargaining agreements that generally cover wages, benefits, working practices, and other terms and conditions of employment.

Executive Officers of the Registrants

The following table sets forth the individuals who currently serve as executive officers. Executive officers serve until their successors are duly elected or appointed.

Name	Age ^(a)	Current and Recent Positions Held
Lynn J. Good	59	Chairman, President and Chief Executive Officer. Ms. Good was elected as Chairman of the Board, effective January 1, 2016, and assumed her position as President and Chief Executive Officer in July 2013. Prior to that, she served as Executive Vice President and Chief Financial Officer since 2009.
Steven K. Young	60	Executive Vice President and Chief Financial Officer. Mr. Young assumed his current position in August 2013. Prior to that, he served as Vice President, Chief Accounting Officer and Controller, assuming the role of Chief Accounting Officer in July 2012 and the role of Controller in December 2006.
Douglas F. Esamann	61	Executive Vice President, Energy Solutions and President, Midwest and Florida Regions. Mr. Esamann assumed his current position in September 2016 and was Executive Vice President and President, Midwest and Florida Regions since June 2015. Prior to that, he served as President, Duke Energy Indiana since November 2010.
Lloyd M. Yates	58	Executive Vice President, Customer and Delivery Operations and President, Carolinas Region. Mr. Yates assumed his current position in September 2016 and was Executive Vice President, Market Solutions and President, Carolinas Region since August 2014. He held the position of Executive Vice President, Regulated Utilities from November 2012 to August 2014, and prior to that, served as Executive Vice President, Customer Operations since July 2012, upon the merger of Duke Energy and Progress Energy.
Dhiaa M. Jamil	62	Executive Vice President and Chief Operating Officer. Mr. Jamil assumed the role of Chief Operating Officer in May 2016. Prior to his current position, he held the title Executive Vice President and President, Regulated Generation and Transmission since June 2015. Prior to that, he served as Executive Vice President and President, Regulated Generation since August 2014. He served as Executive Vice President and President of Duke Energy Nuclear from March 2013 to August 2014, and was Chief Nuclear Officer from February 2008 to February 2013.
Franklin H. Yoho	59	Executive Vice President and President, Natural Gas Business. Mr. Yoho assumed his current position in October 2016 upon the acquisition of Piedmont by Duke Energy. Prior to this appointment, he served as Senior Vice President and Chief Commercial Officer of Piedmont since August 2011.
Julia S. Janson	54	Executive Vice President, External Affairs and Chief Legal Officer. Ms. Janson has held the position of Executive Vice President, External Affairs and Chief Legal Officer since November 2018. She originally assumed the position of Executive Vice President, Chief Legal Officer and Corporate Secretary in December 2012, and then assumed the responsibilities for External Affairs in February 2016.
Melissa H. Anderson	54	Executive Vice President, Administration and Chief Human Resources Officer. Ms. Anderson assumed her position in May 2016 and had been Executive Vice President and Chief Human Resources Officer since January 2015. Prior to joining Duke Energy, she served as Senior Vice President of Human Resources at Domtar Inc. since 2010.
Dwight L. Jacobs	53	Senior Vice President, Chief Accounting Officer, Tax and Controller. Mr. Jacobs has served as Senior Vice President, Chief Accounting Officer, Tax and Controller since January 1, 2019. Prior to that, he served as Senior Vice President, Chief Accounting Officer and Controller since June 1, 2018. Prior to that, he served as Senior Vice President, Financial Planning & Analysis since February 2016 and as Chief Risk Officer since July 2014. Prior to his role as Chief Risk Officer, Mr. Jacobs served as Vice President, Rates & Regulatory Strategy since May 2010.

(a) The ages of the officers provided are as of December 31, 2018.

PART I

There are no family relationships between any of the executive officers, nor any arrangement or understanding between any executive officer and any other person involved in officer selection.

Environmental Matters

The Duke Energy Registrants are subject to federal, state and local laws and regulations with regard to air and water quality, hazardous and solid waste disposal and other environmental matters. Environmental laws and regulations affecting the Duke Energy Registrants include, but are not limited to:

- The CAA, as well as state laws and regulations impacting air emissions, including State Implementation Plans related to existing and new national ambient air quality standards for ozone and particulate matter. Owners and/or operators of air emission sources are responsible for obtaining permits and for annual compliance and reporting.
- The CWA, which requires permits for facilities that discharge wastewaters into navigable waters.
- The Comprehensive Environmental Response, Compensation and Liability Act, which can require any individual or entity that currently owns or in the past owned or operated a disposal site, as well as transporters or generators of hazardous substances sent to a disposal site, to share in remediation costs.
- The National Environmental Policy Act, which requires federal agencies to consider potential environmental impacts in their permitting and licensing decisions, including siting approvals.
- Coal Ash Act, as amended, which establishes requirements regarding the use and closure of existing ash basins, the disposal of ash at active coal plants and the handling of surface water and groundwater impacts from ash basins in North Carolina.
- The Solid Waste Disposal Act, as amended by the RCRA, which creates a framework for the proper management of hazardous and nonhazardous solid waste; classifies CCR as nonhazardous waste; and establishes standards for landfill and surface impoundment placement, design, operation and closure, groundwater monitoring, corrective action, and post-closure care.
- The TSCA, which gives EPA the authority to require reporting, recordkeeping and testing requirements, and to place restrictions relating to chemical substances and/or mixtures, including polychlorinated biphenyls.
- The proposed ACE rule, which will require states to develop CO₂ reduction plans based on efficiency (heat rate) improvements at coal-fired power plants.

For more information on environmental matters, see Notes 5 and 9 to the Consolidated Financial Statements, "Commitments and Contingencies – Environmental" and "Asset Retirement Obligations," respectively, and the "Other Matters" section of Management's Discussion and Analysis. Except as otherwise described in these sections, costs to comply with current federal, state and local provisions regulating the discharge of materials into the environment or other potential costs related to protecting the environment are incorporated into the routine cost structure of our various business segments and are not expected to have a material adverse effect on the competitive position, consolidated results of operations, cash flows or financial position of the Duke Energy Registrants.

The "Other Matters" section of Management's Discussion and Analysis includes an estimate of future capital expenditures required to comply with environmental regulations and a discussion of Global Climate Change including the potential impact of current and future legislation related to GHG emissions on the Duke Energy Registrants' operations. Recently passed and potential future environmental statutes and regulations could have a significant impact on the Duke Energy Registrants' results of operations, cash flows or financial

position. However, if and when such statutes and regulations become effective, the Duke Energy Registrants will seek appropriate regulatory recovery of costs to comply within its regulated operations.

DUKE ENERGY CAROLINAS

Duke Energy Carolinas is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Carolinas' service area covers approximately 24,000 square miles and supplies electric service to 2.6 million residential, commercial and industrial customers. For information about Duke Energy Carolinas' generating facilities, see Item 2, "Properties." Duke Energy Carolinas is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Substantially all of Duke Energy Carolinas' operations are regulated and qualify for regulatory accounting. Duke Energy Carolinas operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

PROGRESS ENERGY

Progress Energy is a public utility holding company primarily engaged in the regulated electric utility business and is subject to regulation by the FERC. Progress Energy conducts operations through its wholly owned subsidiaries, Duke Energy Progress and Duke Energy Florida. When discussing Progress Energy's financial information, it necessarily includes the results of Duke Energy Progress and Duke Energy Florida.

Substantially all of Progress Energy's operations are regulated and qualify for regulatory accounting. Progress Energy operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY PROGRESS

Duke Energy Progress is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Progress' service area covers approximately 32,000 square miles and supplies electric service to approximately 1.6 million residential, commercial and industrial customers. For information about Duke Energy Progress' generating facilities, see Item 2, "Properties." Duke Energy Progress is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Substantially all of Duke Energy Progress' operations are regulated and qualify for regulatory accounting. Duke Energy Progress operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY FLORIDA

Duke Energy Florida is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Florida. Duke Energy Florida's service area covers approximately 13,000 square miles and supplies electric service to approximately 1.8 million residential, commercial and industrial customers. For information about Duke Energy Florida's generating facilities, see Item 2, "Properties." Duke Energy Florida is subject to the regulatory provisions of the FPSC, NRC and FERC.

Substantially all of Duke Energy Florida's operations are regulated and qualify for regulatory accounting. Duke Energy Florida operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

PART I

DUKE ENERGY OHIO

Duke Energy Ohio is a regulated public utility primarily engaged in the transmission and distribution of electricity in portions of Ohio and Kentucky, in the generation and sale of electricity in portions of Kentucky and the transportation and sale of natural gas in portions of Ohio and Kentucky. Duke Energy Ohio also conducts competitive auctions for retail electricity supply in Ohio whereby recovery of the energy price is from retail customers. Operations in Kentucky are conducted through its wholly owned subsidiary, Duke Energy Kentucky. References herein to Duke Energy Ohio include Duke Energy Ohio and its subsidiaries, unless otherwise noted. Duke Energy Ohio is subject to the regulatory provisions of the PUCO, KPSC, PHMSA and FERC.

Duke Energy Ohio's service area covers approximately 3,000 square miles and supplies electric service to approximately 860,000 residential, commercial and industrial customers and provides transmission and distribution services for natural gas to approximately 538,000 customers. For information about Duke Energy Ohio's generating facilities, see Item 2, "Properties."

KO Transmission, a wholly owned subsidiary of Duke Energy Ohio, is an interstate pipeline company engaged in the business of transporting natural gas and is subject to the rules and regulations of FERC. KO Transmission's 90-mile pipeline supplies natural gas to Duke Energy Ohio and interconnects with the Columbia Gulf Transmission pipeline and Tennessee Gas Pipeline. An approximately 70-mile portion of KO Transmission's pipeline facilities is co-owned by Columbia Gas Transmission Corporation.

Substantially all of Duke Energy Ohio's operations are regulated and qualify for regulatory accounting. Duke Energy Ohio has two reportable segments, Electric Utilities and Infrastructure and Gas Utilities and Infrastructure. For additional information on these business segments, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY INDIANA

Duke Energy Indiana is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Indiana. Duke Energy Indiana's service area covers 23,000 square miles and supplies electric service to 840,000 residential, commercial and industrial customers. For information about Duke Energy Indiana's generating facilities, see Item 2, "Properties." Duke Energy Indiana is subject to the regulatory provisions of the IURC and FERC.

Substantially all of Duke Energy Indiana's operations are regulated and qualify for regulatory accounting. Duke Energy Indiana operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

PIEDMONT

Piedmont is a regulated public utility primarily engaged in the distribution of natural gas to over 1 million residential, commercial, industrial and power generation customers in portions of North Carolina, South Carolina and Tennessee, including customers served by municipalities who are wholesale customers. For information about Piedmont's natural gas distribution facilities, see Item 2, "Properties." Piedmont is subject to the regulatory provisions of the NCUC, PSCSC, TPUC, PHMSA and FERC.

Substantially all of Piedmont's operations are regulated and qualify for regulatory accounting. Piedmont operates one reportable business segment, Gas Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

ITEM 1A. RISK FACTORS

In addition to other disclosures within this Form 10-K, including "Management's Discussion and Analysis of Financial Condition and Results of Operations – Matters Impacting Future Results" for each registrant in Item 7, and other documents filed with the SEC from time to time, the following factors should be considered in evaluating Duke Energy and its subsidiaries. Such factors could affect actual results of operations and cause results to differ substantially from those currently expected or sought. Unless otherwise indicated, risk factors discussed below generally relate to risks associated with all of the Duke Energy Registrants. Risks identified at the Subsidiary Registrant level are generally applicable to Duke Energy.

BUSINESS STRATEGY RISKS

Duke Energy's future results could be adversely affected if it is unable to implement its business strategy.

Duke Energy's results of operations depend, in significant part, on the extent to which it can implement its business strategy successfully. Duke Energy's strategy, including transforming the customer experience, modernizing the energy grid, generating cleaner energy, expansion of natural gas infrastructure, modernizing the regulatory construct, digital transformation and engaging employees and stakeholders to accomplish these priorities, is subject to business, economic and competitive uncertainties and contingencies, many of which are beyond its control. As a consequence, Duke Energy may not be able to fully implement or realize the anticipated results of its strategy.

REGULATORY, LEGISLATIVE AND LEGAL RISKS

The Duke Energy Registrants' regulated utility revenues, earnings and results are dependent on state legislation and regulation that affect electric generation, electric and natural gas transmission, distribution and related activities, which may limit their ability to recover costs.

The Duke Energy Registrants' regulated electric and natural gas utility businesses are regulated on a cost-of-service/rate-of-return basis subject to statutes and regulatory commission rules and procedures of North Carolina, South Carolina, Florida, Ohio, Tennessee, Indiana and Kentucky. If the Duke Energy Registrants' regulated utility earnings exceed the returns established by the state utility commissions, retail electric and natural gas rates may be subject to review and possible reduction by the commissions, which may decrease the Duke Energy Registrants' earnings. Additionally, if regulatory bodies do not allow recovery of costs incurred in providing service, or do not do so on a timely basis, the Duke Energy Registrants' earnings could be negatively impacted.

If legislative and regulatory structures were to evolve in such a way that the Duke Energy Registrants' exclusive rights to serve their regulated customers were eroded, their earnings could be negatively impacted. Federal and state regulations, laws and other efforts designed to promote and expand the use of energy efficiency measures and distributed generation technologies, such as private solar and battery storage, in Duke Energy service territories could result in customers leaving the electric distribution system and an increase in customer net energy metering, which allows customers with private solar to receive bill credits for surplus power at the full retail amount. Over time, customer adoption of these technologies and increased energy efficiency could result in excess generation resources as well as stranded costs if Duke Energy is not able to fully recover the costs and investment in generation.

PART I

State regulators have approved various mechanisms to stabilize natural gas utility margins, including margin decoupling in North Carolina and rate stabilization in South Carolina. State regulators have approved other margin stabilizing mechanisms that, for example, allow for recovery of margin losses associated with negotiated transactions designed to retain large volume customers that could use alternative fuels or that may otherwise directly access natural gas supply through their own connection to an interstate pipeline. If regulators decided to discontinue the Duke Energy Registrants' use of tariff mechanisms, it would negatively impact results of operations, financial condition and cash flows. In addition, regulatory authorities also review whether natural gas costs are prudent and can disallow the recovery of a portion of natural gas costs that the Duke Energy Registrants seek to recover from customers, which would adversely impact earnings.

The rates that the Duke Energy Registrants' regulated utility businesses are allowed to charge are established by state utility commissions in rate case proceedings, which may limit their ability to recover costs and earn an appropriate return on investment.

The rates that the Duke Energy Registrants' regulated utility business are allowed to charge significantly influences the results of operations, financial position and cash flows of the Duke Energy Registrants. The regulation of the rates that the regulated utility businesses charge customers is determined, in large part, by state utility commissions in rate case proceedings. Negative decisions made by these regulators, or by any court on appeal of a rate case proceeding, could have a material adverse effect on the Duke Energy Registrants' results of operations, financial position or cash flows and affect the ability of the Duke Energy Registrants to recover costs and an appropriate return on the significant infrastructure investments being made.

Deregulation or restructuring in the electric industry may result in increased competition and unrecovered costs that could adversely affect the Duke Energy Registrants' financial position, results of operations or cash flows and their utility businesses.

Increased competition resulting from deregulation or restructuring legislation could have a significant adverse impact on the Duke Energy Registrants' results of operations, financial position or cash flows. If the retail jurisdictions served by the Duke Energy Registrants become subject to deregulation, the impairment of assets, loss of retail customers, lower profit margins or increased costs of capital, and recovery of stranded costs could have a significant adverse financial impact on the Duke Energy Registrants. Stranded costs primarily include the generation assets of the Duke Energy Registrants whose value in a competitive marketplace may be less than their current book value, as well as above-market purchased power commitments from QFs from whom the Duke Energy Registrants are legally obligated to purchase energy at an avoided cost rate under PURPA. The Duke Energy Registrants cannot predict the extent and timing of entry by additional competitors into the electric markets. The Duke Energy Registrants cannot predict if or when they will be subject to changes in legislation or regulation, nor can they predict the impact of these changes on their results of operations, financial position or cash flows.

The Duke Energy Registrants' businesses are subject to extensive federal regulation and a wide variety of laws and governmental policies, including taxes, that may change over time in ways that affect operations and costs.

The Duke Energy Registrants are subject to regulations under a wide variety of U.S. federal and state regulations and policies, including by FERC, NRC, EPA and various other federal agencies as well as the North American Electric Reliability Corporation. Regulation affects almost every aspect of the Duke Energy Registrants' businesses, including, among other things, their ability to: take fundamental business management actions; determine the terms and rates of transmission and distribution services; make acquisitions; issue equity

or debt securities; engage in transactions with other subsidiaries and affiliates; and pay dividends upstream to the Duke Energy Registrants. Changes to federal regulations are continuous and ongoing. There can be no assurance that laws, regulations and policies will not be changed in ways that result in material modifications of business models and objectives or affect returns on investment by restricting activities and products, subjecting them to escalating costs, causing delays, or prohibiting them outright.

The Duke Energy Registrants are subject to numerous environmental laws and regulations requiring significant capital expenditures that can increase the cost of operations, and which may impact or limit business plans, or cause exposure to environmental liabilities.

The Duke Energy Registrants are subject to numerous environmental laws and regulations affecting many aspects of their present and future operations, including CCRs, air emissions, water quality, wastewater discharges, solid waste and hazardous waste. These laws and regulations can result in increased capital, operating and other costs. These laws and regulations generally require the Duke Energy Registrants to obtain and comply with a wide variety of environmental licenses, permits, inspections and other approvals. Compliance with environmental laws and regulations can require significant expenditures, including expenditures for cleanup costs and damages arising from contaminated properties. Failure to comply with environmental regulations may result in the imposition of fines, penalties and injunctive measures affecting operating assets. The steps the Duke Energy Registrants could be required to take to ensure their facilities are in compliance could be prohibitively expensive. As a result, the Duke Energy Registrants may be required to shut down or alter the operation of their facilities, which may cause the Duke Energy Registrants to incur losses. Further, the Duke Energy Registrants may not be successful in recovering capital and operating costs incurred to comply with new environmental regulations through existing regulatory rate structures and their contracts with customers. Also, the Duke Energy Registrants may not be able to obtain or maintain from time to time all required environmental regulatory approvals for their operating assets or development projects. Delays in obtaining any required environmental regulatory approvals, failure to obtain and comply with them or changes in environmental laws or regulations to more stringent compliance levels could result in additional costs of operation for existing facilities or development of new facilities being prevented, delayed or subject to additional costs. Although it is not expected that the costs to comply with current environmental regulations will have a material adverse effect on the Duke Energy Registrants' results of operations, financial position and cash flows due to regulatory cost recovery, the Duke Energy Registrants are at risk that the costs of complying with environmental regulations in the future will have such an effect.

The EPA has enacted or proposed federal regulations governing the management of cooling water intake structures, wastewater and CO₂ emissions. These regulations may require the Duke Energy Registrants to make additional capital expenditures and increase operating and maintenance costs.

Duke Energy Carolinas and Duke Energy Progress are subject to the terms of probation set out in judgments of the United States District Court for the Eastern District of North Carolina on May 14, 2015. The judgments are based on events and activities that took place prior to 2015. The terms of probation require the companies to comply with certain environmental regulatory obligations related to coal ash and subject the two companies to oversight by a Court Appointed Monitor. If Duke Energy Carolinas or Duke Energy Progress failed to comply with certain coal ash-related environmental laws and regulations or otherwise violated the terms of probation, it could result in the imposition of additional penalties, including the revocation of probation and re-prosecution of the underlying violations. Although it is not expected that the companies will violate the terms of probation or that additional material penalties would occur, a significant violation of probation could have a material adverse effect on the Duke Energy Registrants' reputation, results of operations, financial position and cash flows.

PART I

The Duke Energy Registrants' operations, capital expenditures and financial results may be affected by regulatory changes related to the impacts of global climate change.

There is continued concern, both nationally and internationally, about climate change. The EPA and state regulators may adopt and implement regulations to restrict emissions of GHGs to address global climate change. Increased regulation of GHG emissions could impose significant additional costs on the Duke Energy Registrants' operations, their suppliers and customers. Regulatory changes could also result in generation facilities to be retired early and result in stranded costs if Duke Energy is not able to fully recover the costs and investment in generation.

OPERATIONAL RISKS

The Duke Energy Registrants' results of operations may be negatively affected by overall market, economic and other conditions that are beyond their control.

Sustained downturns or sluggishness in the economy generally affect the markets in which the Duke Energy Registrants operate and negatively influence operations. Declines in demand for electricity or natural gas as a result of economic downturns in the Duke Energy Registrants' regulated service territories will reduce overall sales and lessen cash flows, especially as industrial customers reduce production and, therefore, consumption of electricity and the use of natural gas. Although the Duke Energy Registrants' regulated electric and natural gas businesses are subject to regulated allowable rates of return and recovery of certain costs, such as fuel and purchased natural gas costs, under periodic adjustment clauses, overall declines in electricity or natural gas sold as a result of economic downturn or recession could reduce revenues and cash flows, thereby diminishing results of operations. Additionally, prolonged economic downturns that negatively impact the Duke Energy Registrants' results of operations and cash flows could result in future material impairment charges to write-down the carrying value of certain assets, including goodwill, to their respective fair values.

The Duke Energy Registrants also sell electricity into the spot market or other competitive power markets on a contractual basis. With respect to such transactions, the Duke Energy Registrants are not guaranteed any rate of return on their capital investments through mandated rates, and revenues and results of operations are likely to depend, in large part, upon prevailing market prices. These market prices may fluctuate substantially over relatively short periods of time and could reduce the Duke Energy Registrants' revenues and margins, thereby diminishing results of operations.

Factors that could impact sales volumes, generation of electricity and market prices at which the Duke Energy Registrants are able to sell electricity and natural gas are as follows:

- weather conditions, including abnormally mild winter or summer weather that cause lower energy or natural gas usage for heating or cooling purposes, as applicable, and periods of low rainfall that decrease the ability to operate facilities in an economical manner;
- supply of and demand for energy commodities;
- transmission or transportation constraints or inefficiencies that impact nonregulated energy operations;
- availability of competitively priced alternative energy sources, which are preferred by some customers over electricity produced from coal, nuclear or natural gas plants, and customer usage of energy-efficient equipment that reduces energy demand;
- natural gas, crude oil and refined products production levels and prices;

- ability to procure satisfactory levels of inventory, such as coal, natural gas and uranium; and
- capacity and transmission service into, or out of, the Duke Energy Registrants' markets.

Natural disasters or operational accidents may adversely affect the Duke Energy Registrants' operating results.

Natural disasters or other operational accidents within the company or industry (such as forest fires, earthquakes, hurricanes or natural gas transmission pipeline explosions) could have direct or indirect impacts to the Duke Energy Registrants or to key contractors and suppliers. Further, the generation of electricity and the transportation and storage of natural gas involve inherent operating risks that may result in accidents involving serious injury or loss of life, environmental damage or property damage. Such events could impact the Duke Energy Registrants through changes to policies, laws and regulations whose compliance costs have a significant impact on the Duke Energy Registrants' results of operations, financial position and cash flows. In addition, if a serious operational accident were to occur, it could have a material adverse effect on the results of operations, financial position, cash flows and reputation of the Duke Energy Registrants.

The reputation and financial condition of the Duke Energy Registrants could be negatively impacted due to their obligations to comply with federal and state regulations, laws, and other legal requirements that govern the operations, assessments, storage, closure, remediation, disposal and monitoring relating to CCR, the high costs and new rate impacts associated with implementing these new CCR-related requirements and the strategies and methods necessary to implement these requirements in compliance with these legal obligations.

As a result of electricity produced for decades at coal-fired power plants, the Duke Energy Registrants manage large amounts of CCR that are primarily stored in dry storage within landfills or combined with water in other surface impoundments, all in compliance with applicable regulatory requirements. However, the potential exists for another CCR-related incident, such as the one that occurred during the 2014 Dan River Steam Station ash basin release, that could raise environmental or public health concerns. Such a CCR-related incident could have a material adverse impact on the reputation and results of operations, financial position and cash flows of the Duke Energy Registrants.

During 2015, EPA regulations were enacted related to the management of CCR from power plants. These regulations classify CCR as nonhazardous waste under the RCRA and apply to electric generating sites with new and existing landfills, new and existing surface impoundments, structural fills and CCR piles, and establishes requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring, protection and remedial procedures and other operational and reporting procedures for the disposal and management of CCR. In addition to the federal regulations, CCR landfills and surface impoundments will continue to be independently regulated by existing state laws, regulations and permits, as well as additional legal requirements that may be imposed in the future. These federal and state laws, regulations and other legal requirements may require or result in additional expenditures, increased operating and maintenance costs and/or result in closure of certain power generating facilities, which could affect the results of operations, financial position and cash flows of the Duke Energy Registrants. The Duke Energy Registrants will continue to seek full cost recovery for expenditures through the normal ratemaking process with state and federal utility commissions, who permit recovery in rates of necessary and prudently incurred costs associated with the Duke Energy Registrants' regulated operations, and through other wholesale contracts with terms that contemplate

PART I

recovery of such costs, although there is no guarantee of full cost recovery. In addition, the timing for recovery of such costs could have a material adverse impact on Duke Energy's cash flows.

The Duke Energy Registrants have recognized significant asset retirement obligations related to these CCR-related requirements. Closure activities began in 2015 at the four sites specified as high priority by the Coal Ash Act and at the W.S. Lee Steam Station site in South Carolina in connection with other legal requirements. Excavation at these sites involves movement of large amounts of CCR materials to off-site locations for use as structural fill, to appropriate engineered off-site or on-site lined landfills or conversion of the ash for beneficial use. At other sites, preliminary planning and closure methods have been studied and factored into the estimated retirement and management costs. The Coal Ash Act requires CCR surface impoundments in North Carolina to be closed, with the closure method and timing based on a risk ranking classification determined by legislation or state regulators. Additionally, the RCRA required closure timing depends upon meeting or continuing to meet certain criteria. As the closure and CCR management work progresses and final closure plans and corrective action measures are developed and approved at each site, the scope and complexity of work and the amount of CCR material could be greater than estimates and could, therefore, materially increase compliance expenditures and rate impacts.

The Duke Energy Registrants' financial position, results of operations and cash flows may be negatively affected by a lack of growth or slower growth in the number of customers, or decline in customer demand or number of customers.

Growth in customer accounts and growth of customer usage each directly influence demand for electricity and natural gas and the need for additional power generation and delivery facilities. Customer growth and customer usage are affected by a number of factors outside the control of the Duke Energy Registrants, such as mandated energy efficiency measures, demand-side management goals, distributed generation resources and economic and demographic conditions, such as population changes, job and income growth, housing starts, new business formation and the overall level of economic activity.

Certain regulatory and legislative bodies have introduced or are considering requirements and/or incentives to reduce energy consumption by certain dates. Additionally, technological advances driven by federal laws mandating new levels of energy efficiency in end-use electric devices or other improvements in or applications of technology could lead to declines in per capita energy consumption.

Advances in distributed generation technologies that produce power, including fuel cells, microturbines, wind turbines and solar cells, may reduce the cost of alternative methods of producing power to a level competitive with central power station electric production utilized by the Duke Energy Registrants.

Some or all of these factors could result in a lack of growth or decline in customer demand for electricity or number of customers and may cause the failure of the Duke Energy Registrants to fully realize anticipated benefits from significant capital investments and expenditures, which could have a material adverse effect on their results of operations, financial position and cash flows.

Furthermore, the Duke Energy Registrants currently have energy efficiency riders in place to recover the cost of energy efficiency programs in North Carolina, South Carolina, Florida, Indiana, Ohio and Kentucky. Should the Duke Energy Registrants be required to invest in conservation measures that result in reduced sales from effective conservation, regulatory lag in adjusting rates for the impact of these measures could have a negative financial impact.

The Duke Energy Registrants' operating results may fluctuate on a seasonal and quarterly basis and can be negatively affected by changes in weather conditions and severe weather, including extreme weather conditions associated with climate change.

Electric power generation and natural gas distribution are generally seasonal businesses. In most parts of the U.S., the demand for power peaks during the warmer summer months, with market prices also typically peaking at that time. In other areas, demand for power peaks during the winter. Demand for natural gas peaks during the winter months. Further, extreme weather conditions such as hurricanes, droughts, heat waves, winter storms and severe weather associated with climate change could cause these seasonal fluctuations to be more pronounced. As a result, the overall operating results of the Duke Energy Registrants' businesses may fluctuate substantially on a seasonal and quarterly basis and thus make period-to-period comparison less relevant.

Sustained severe drought conditions could impact generation by hydroelectric plants, as well as fossil and nuclear plant operations, as these facilities use water for cooling purposes and for the operation of environmental compliance equipment. Furthermore, destruction caused by severe weather events, such as hurricanes, tornadoes, severe thunderstorms, snow and ice storms, can result in lost operating revenues due to outages, property damage, including downed transmission and distribution lines, and additional and unexpected expenses to mitigate storm damage. The cost of storm restoration efforts may not be fully recoverable through the regulatory process.

The Duke Energy Registrants' sales may decrease if they are unable to gain adequate, reliable and affordable access to transmission assets.

The Duke Energy Registrants depend on transmission and distribution facilities owned and operated by utilities and other energy companies to deliver electricity sold to the wholesale market. The FERC's power transmission regulations require wholesale electric transmission services to be offered on an open-access, non-discriminatory basis. If transmission is disrupted, or if transmission capacity is inadequate, the Duke Energy Registrants' ability to sell and deliver products may be hindered.

The different regional power markets have changing regulatory structures, which could affect growth and performance in these regions. In addition, the ISOs who oversee the transmission systems in regional power markets have imposed in the past, and may impose in the future, price limitations and other mechanisms to address volatility in the power markets. These types of price limitations and other mechanisms may adversely impact the profitability of the Duke Energy Registrants' wholesale power marketing business.

Duke Energy may be unable to complete necessary or desirable pipeline expansion or infrastructure development or maintenance projects, which may prevent the Duke Energy Registrants from expanding the natural gas business.

In order to serve current or new natural gas customers or expand the service to existing customers, the Duke Energy Registrants need to maintain, expand or upgrade distribution, transmission and/or storage infrastructure, including laying new pipeline and building compressor stations. Duke Energy Registrants have made significant investments in a number of pipeline development projects, which are being operated and constructed by third-party joint venture partners. The Duke Energy Registrants must rely on their third-party joint venture partners for proper construction management of the projects and are dependent upon contractors for the successful and timely completion of the projects. In addition, various factors, such as the inability to obtain required approval from local, state and/or federal regulatory and governmental bodies, public opposition to projects, adverse litigation rulings, inability to obtain adequate financing, competition for labor and materials, construction delays, cost overruns and the inability to negotiate acceptable agreements relating to rights of way, construction or other material development components, may prevent or delay the completion of projects or materially increase the cost of such projects, which could have a material adverse effect on the results of operations and financial position of Duke Energy.

PART I

The availability of adequate interstate pipeline transportation capacity and natural gas supply may decrease.

The Duke Energy Registrants purchase almost all of their natural gas supply from interstate sources that must be transported to the applicable service territories. Interstate pipeline companies transport the natural gas to the Duke Energy Registrants' systems under firm service agreements that are designed to meet the requirements of their core markets. A significant disruption to interstate pipelines capacity or reduction in natural gas supply due to events including, but not limited to, operational failures or disruptions, hurricanes, tornadoes, floods, freeze off of natural gas wells, terrorist or cyberattacks or other acts of war or legislative or regulatory actions or requirements, including remediation related to integrity inspections, could reduce the normal interstate supply of natural gas and thereby reduce earnings. Moreover, if additional natural gas infrastructure, including, but not limited to, exploration and drilling rigs and platforms, processing and gathering systems, off-shore pipelines, interstate pipelines and storage, cannot be built at a pace that meets demand, then growth opportunities could be limited and earnings negatively impacted.

Fluctuations in commodity prices or availability may adversely affect various aspects of the Duke Energy Registrants' operations as well as their financial position, results of operations and cash flows.

The Duke Energy Registrants are exposed to the effects of market fluctuations in the price of natural gas, coal, fuel oil, nuclear fuel, electricity and other energy-related commodities as a result of their ownership of energy-related assets. Fuel costs are recovered primarily through cost-recovery clauses, subject to the approval of state utility commissions.

Additionally, the Duke Energy Registrants are exposed to risk that counterparties will not be able to fulfill their obligations. Disruption in the delivery of fuel, including disruptions as a result of, among other things, transportation delays, weather, labor relations, force majeure events or environmental regulations affecting any of these fuel suppliers, could limit the Duke Energy Registrants' ability to operate their facilities. Should counterparties fail to perform, the Duke Energy Registrants might be forced to replace the underlying commitment at prevailing market prices possibly resulting in losses in addition to the amounts, if any, already paid to the counterparties.

Certain of the Duke Energy Registrants' hedge agreements may result in the receipt of, or posting of, collateral with counterparties, depending on the daily market-based calculation of financial exposure of the derivative positions. Fluctuations in commodity prices that lead to the return of collateral received and/or the posting of collateral with counterparties could negatively impact liquidity. Downgrades in the Duke Energy Registrants' credit ratings could lead to additional collateral posting requirements. The Duke Energy Registrants continually monitor derivative positions in relation to market price activity.

Potential terrorist activities, or military or other actions, could adversely affect the Duke Energy Registrants' businesses.

The continued threat of terrorism and the impact of retaliatory military and other action by the U.S. and its allies may lead to increased political, economic and financial market instability and volatility in prices for natural gas and oil, which may have material adverse effects in ways the Duke Energy Registrants cannot predict at this time. In addition, future acts of terrorism and possible reprisals as a consequence of action by the U.S. and its allies could be directed against companies operating in the U.S. Information technology systems, transmission and distribution and generation facilities such as nuclear plants could be potential targets of terrorist activities or harmful activities by individuals or groups that could have a material adverse effect on Duke Energy Registrants' businesses. In particular, the Duke Energy Registrants may experience increased capital and operating costs to implement increased security for their information technology systems, transmission and distribution and generation facilities, including nuclear power plants under the NRC's design

basis threat requirements. These increased costs could include additional physical plant security and security personnel or additional capability following a terrorist incident.

The failure of Duke Energy information technology systems, or the failure to enhance existing information technology systems and implement new technology, could adversely affect the Duke Energy Registrants' businesses.

Duke Energy's operations are dependent upon the proper functioning of its internal systems, including the information technology systems that support our underlying business processes. Any significant failure or malfunction of such information technology systems may result in disruptions of our operations. In the ordinary course of business, we rely on information technology systems, including the internet and third-party hosted services, to support a variety of business processes and activities and to store sensitive data, including (i) intellectual property, (ii) proprietary business information, (iii) personally identifiable information of our customers and employees, and (iv) data with respect to invoicing and the collection of payments, accounting, procurement, and supply chain activities. Our information technology systems are dependent upon global communications and cloud service providers, as well as their respective vendors, many of whom have at some point experienced significant system failures and outages in the past and may experience such failures and outages in the future. These providers' systems are susceptible to cybersecurity and data breaches, outages from fire, floods, power loss, telecommunications failures, break-ins and similar events. Failure to prevent or mitigate data loss from system failures or outages could materially affect the results of operations, financial position and cash flows of the Duke Energy Registrants.

In addition to maintaining our current information technology systems, Duke Energy believes the digital transformation of its business is key to driving internal efficiencies as well as providing additional capabilities to customers. Duke Energy's information technology systems are critical to cost-effective, reliable daily operations and our ability to effectively serve our customers. We expect our customers to continue to demand more sophisticated technology-driven solutions and we must enhance or replace our information technology systems in response. This involves significant development and implementation costs to keep pace with changing technologies and customer demand. If we fail to successfully implement critical technology, or if it does not provide the anticipated benefits or meet customer demands, such failure could materially adversely affect our business strategy as well as impact the results of operations, financial position and cash flows of the Duke Energy Registrants.

Cyberattacks and data security breaches could adversely affect the Duke Energy Registrants' businesses.

Cybersecurity risks have increased in recent years as a result of the proliferation of new technologies and the increased sophistication, magnitude and frequency of cyberattacks and data security breaches. Duke Energy relies on the continued operation of sophisticated digital information technology systems and network infrastructure, which are part of an interconnected regional grid. Additionally, connectivity to the internet continues to increase through grid modernization and other operational excellence initiatives. Because of the critical nature of the infrastructure, increased connectivity to the internet and technology systems' inherent vulnerability to disability or failures due to hacking, viruses, acts of war or terrorism or other types of data security breaches, the Duke Energy Registrants face a heightened risk of cyberattack from foreign or domestic sources and have been subject, and will likely continue to be subject, to attempts to gain unauthorized access to information and/or information systems or to disrupt utility operations through computer viruses and phishing attempts either directly or indirectly through its material vendors or related third parties. In the event of a significant cybersecurity breach on either the Duke Energy Registrants or with one of our material vendors or related third parties, the Duke Energy Registrants could (i) have business operations

PART I

disrupted, including the disruption of the operation of our assets and the power grid, theft of confidential company, employee, shareholder, vendor or customer information, and general business systems and process interruption or compromise, including preventing the Duke Energy Registrants from servicing customers, collecting revenues or the recording, processing and/or reporting financial information correctly, (ii) experience substantial loss of revenues, repair and restoration costs, penalties and costs for lack of compliance with relevant regulations, implementation costs for additional security measures to avert future cyberattacks and other financial loss and (iii) be subject to increased regulation, litigation and reputational damage. While Duke Energy maintains insurance relating to cybersecurity events, such insurance is subject to a number of exclusions and may be insufficient to offset any losses, costs or damage experienced. Also, the market for cybersecurity insurance is relatively new and coverage available for cybersecurity events may evolve as the industry matures.

The Duke Energy Registrants are subject to standards enacted by the North American Electric Reliability Corporation and enforced by FERC regarding protection of the physical and cyber security of critical infrastructure assets required for operating North America's bulk electric system. The Duke Energy Registrants are also subject to regulations set by the Nuclear Regulatory Commission regarding the protection of digital computer and communication systems and networks required for the operation of nuclear power plants. While the Duke Energy Registrants believe they are in compliance with such standards and regulations, the Duke Energy Registrants have from time to time been, and may in the future be, found to be in violation of such standards and regulations. In addition, compliance with or changes in the applicable standards and regulations may subject the Duke Energy Registrants to higher operating costs and/or increased capital expenditures as well as substantial fines for non-compliance.

Failure to attract and retain an appropriately qualified workforce could unfavorably impact the Duke Energy Registrants' results of operations.

Certain events, such as an aging workforce, mismatch of skill set or complement to future needs, or unavailability of contract resources may lead to operating challenges and increased costs. The challenges include lack of resources, loss of knowledge base and the lengthy time required for skill development. In this case, costs, including costs for contractors to replace employees, productivity costs and safety costs, may increase. Failure to hire and adequately train replacement employees, including the transfer of significant internal historical knowledge and expertise to new employees, or future availability and cost of contract labor may adversely affect the ability to manage and operate the business, especially considering the workforce needs associated with nuclear generation facilities and new skills required to operate a modernized, technology-enabled power grid. If the Duke Energy Registrants are unable to successfully attract and retain an appropriately qualified workforce, their results of operations, financial position and cash flows could be negatively affected.

The costs of decommissioning Duke Energy Florida's Crystal River Unit 3 could prove to be more extensive than is currently identified.

Costs to decommission the plant could exceed estimates and, if not recoverable through the regulatory process, could adversely affect Duke Energy's, Progress Energy's and Duke Energy Florida's results of operations, financial position and cash flows.

Duke Energy Ohio's and Duke Energy Indiana's membership in an RTO presents risks that could have a material adverse effect on their results of operations, financial position and cash flows.

The rules governing the various regional power markets may change, which could affect Duke Energy Ohio's and Duke Energy Indiana's costs and/or revenues. To the degree Duke Energy Ohio and Duke Energy Indiana incur significant additional fees and increased costs to participate in an RTO, their results of operations may be impacted. Duke Energy Ohio and Duke Energy Indiana may be allocated a portion of the cost of transmission facilities built by others due to changes in RTO transmission rate design. Duke Energy Ohio and Duke Energy Indiana may be required to expand their transmission system according to decisions made by an RTO rather than their own internal planning process. In addition, RTOs have been developing rules associated with the allocation and methodology of assigning costs associated with improved transmission reliability, reduced transmission congestion and firm transmission rights that may have a financial impact on the results of operations, financial position and cash flows of Duke Energy Ohio and Duke Energy Indiana.

As members of an RTO, Duke Energy Ohio and Duke Energy Indiana are subject to certain additional risks, including those associated with the allocation among RTO members, of losses caused by unreimbursed defaults of other participants in the RTO markets and those associated with complaint cases filed against an RTO that may seek refunds of revenues previously earned by RTO members.

The Duke Energy Registrants may not recover costs incurred to begin construction on projects that are canceled.

Duke Energy's long-term strategy requires the construction of new projects, either wholly owned or partially owned, which involve a number of risks, including construction delays, nonperformance by equipment and other third-party suppliers, and increases in equipment and labor costs. To limit the risks of these construction projects, the Duke Energy Registrants enter into equipment purchase orders and construction contracts and incur engineering and design service costs in advance of receiving necessary regulatory approvals and/or siting or environmental permits. If any of these projects are canceled for any reason, including failure to receive necessary regulatory approvals and/or siting or environmental permits, significant cancellation penalties under the equipment purchase orders and construction contracts could occur. In addition, if any construction work or investments have been recorded as an asset, an impairment may need to be recorded in the event the project is canceled.

NUCLEAR GENERATION RISKS

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida may incur substantial costs and liabilities due to their ownership and operation of nuclear generating facilities.

Ownership interests in and operation of nuclear stations by Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida subject them to various risks. These risks include, among other things: the potential harmful effects on the environment and human health resulting from the current or past operation of nuclear facilities and the storage, handling and disposal of radioactive materials; limitations on the amounts and types of insurance commercially available to cover losses that might arise in connection with nuclear operations; and uncertainties with respect to the technological and financial aspects of decommissioning nuclear plants at the end of their licensed lives.

Ownership and operation of nuclear generation facilities requires compliance with licensing and safety-related requirements imposed by the NRC. In the event of non-compliance, the NRC may increase regulatory oversight, impose fines or shut down a unit depending upon its assessment of the severity of the situation. Revised security and safety requirements promulgated by the NRC, which could be prompted by, among other things, events within or outside of the control of Duke Energy Carolinas, Duke Energy Progress and Duke

PART I

Energy Florida, such as a serious nuclear incident at a facility owned by a third party, could necessitate substantial capital and other expenditures, as well as assessments to cover third-party losses. In addition, if a serious nuclear incident were to occur, it could have a material adverse effect on the results of operations, financial position, cash flows and reputation of the Duke Energy Registrants.

LIQUIDITY, CAPITAL REQUIREMENTS AND COMMON STOCK RISKS

The Duke Energy Registrants rely on access to short-term borrowings and longer-term debt and equity markets to finance their capital requirements and support their liquidity needs. Access to those markets can be adversely affected by a number of conditions, many of which are beyond the Duke Energy Registrants' control.

The Duke Energy Registrants' businesses are significantly financed through issuances of debt and equity. The maturity and repayment profile of debt used to finance investments often does not correlate to cash flows from their assets. Accordingly, as a source of liquidity for capital requirements not satisfied by the cash flows from their operations and to fund investments originally financed through debt instruments with disparate maturities, the Duke Energy Registrants rely on access to short-term money markets as well as longer-term capital markets. The Subsidiary Registrants also rely on access to short-term intercompany borrowings. If the Duke Energy Registrants are not able to access debt or equity at competitive rates or at all, the ability to finance their operations and implement their strategy and business plan as scheduled could be adversely affected. An inability to access debt and equity may limit the Duke Energy Registrants' ability to pursue improvements or acquisitions that they may otherwise rely on for future growth.

Market disruptions may increase the cost of borrowing or adversely affect the ability to access one or more financial markets. Such disruptions could include: economic downturns, the bankruptcy of an unrelated energy company, unfavorable capital market conditions, market prices for electricity and natural gas, actual or threatened terrorist attacks, or the overall health of the energy industry. The availability of credit under Duke Energy's Master Credit Facility depends upon the ability of the banks providing commitments under the facility to provide funds when their obligations to do so arise. Systematic risk of the banking system and the financial markets could prevent a bank from meeting its obligations under the facility agreement.

Duke Energy maintains a revolving credit facility to provide backup for its commercial paper program and letters of credit to support variable rate demand tax-exempt bonds that may be put to the Duke Energy Registrant issuer at the option of the holder. The facility includes borrowing sublimits for the Duke Energy Registrants, each of whom is a party to the credit facility, and financial covenants that limit the amount of debt that can be outstanding as a percentage of the total capital for the specific entity. Failure to maintain these covenants at a particular entity could preclude Duke Energy from issuing commercial paper or the Duke Energy Registrants from issuing letters of credit or borrowing under the Master Credit Facility.

The Duke Energy Registrants must meet credit quality standards and there is no assurance they will maintain investment grade credit ratings. If the Duke Energy Registrants are unable to maintain investment grade credit ratings, they would be required under credit agreements to provide collateral in the form of letters of credit or cash, which may materially adversely affect their liquidity.

Each of the Duke Energy Registrants' senior long-term debt issuances is currently rated investment grade by various rating agencies. The Duke Energy Registrants cannot ensure their senior long-term debt will be rated investment grade in the future.

If the rating agencies were to rate the Duke Energy Registrants below investment grade, borrowing costs would increase, perhaps significantly. In addition, the potential pool of investors and funding sources would likely decrease. Further, if the short-term debt rating were to fall, access to the commercial paper market could be significantly limited.

A downgrade below investment grade could also require the posting of additional collateral in the form of letters of credit or cash under various credit, commodity and capacity agreements and trigger termination clauses in some interest rate derivative agreements, which would require cash payments. All of these events would likely reduce the Duke Energy Registrants' liquidity and profitability and could have a material effect on their results of operations, financial position and cash flows.

Non-compliance with debt covenants or conditions could adversely affect the Duke Energy Registrants' ability to execute future borrowings.

The Duke Energy Registrants' debt and credit agreements contain various financial and other covenants. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements.

Market performance and other changes may decrease the value of the NDTF investments of Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, which then could require significant additional funding.

Ownership and operation of nuclear generation facilities also requires the maintenance of funded trusts that are intended to pay for the decommissioning costs of the respective nuclear power plants. The performance of the capital markets affects the values of the assets held in trust to satisfy these future obligations. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida have significant obligations in this area and hold significant assets in these trusts. These assets are subject to market fluctuations and will yield uncertain returns, which may fall below projected rates of return. Although a number of factors impact funding requirements, a decline in the market value of the assets may increase the funding requirements of the obligations for decommissioning nuclear plants. If Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are unable to successfully manage their NDTF assets, their results of operations, financial position and cash flows could be negatively affected.

Poor investment performance of the Duke Energy pension plan holdings and other factors impacting pension plan costs could unfavorably impact the Duke Energy Registrants' liquidity and results of operations.

The costs of providing non-contributory defined benefit pension plans are dependent upon a number of factors, such as the rates of return on plan assets, discount rates, the level of interest rates used to measure the required minimum funding levels of the plans, future government regulation and required or voluntary contributions made to the plans. The Subsidiary Registrants are allocated their proportionate share of the cost and obligations related to these plans. Without sustained growth in the pension investments over time to increase the value of plan assets and, depending upon the other factors impacting costs as listed above, Duke Energy could be required to fund its plans with significant amounts of cash. Such cash funding obligations, and the Subsidiary Registrants' proportionate share of such cash funding obligations, could have a material impact on the Duke Energy Registrants' results of operations, financial position and cash flows.

PART I

Duke Energy is a holding company and depends on the cash flows from its subsidiaries to meet its financial obligations.

Because Duke Energy is a holding company with no operations or cash flows of its own, its ability to meet its financial obligations, including making interest and principal payments on outstanding indebtedness and to pay dividends on its common stock, is primarily dependent on the net income and cash flows of its subsidiaries and the ability of those subsidiaries to pay

upstream dividends or to repay borrowed funds. Prior to funding Duke Energy, its subsidiaries have regulatory restrictions and financial obligations that must be satisfied. These subsidiaries are separate legal entities and have no obligation to provide Duke Energy with funds. In addition, Duke Energy may provide capital contributions or debt financing to its subsidiaries under certain circumstances, which would reduce the funds available to meet its financial obligations, including making interest and principal payments on outstanding indebtedness and to pay dividends on Duke Energy's common stock.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

ELECTRIC UTILITIES AND INFRASTRUCTURE

The following table provides information related to the Electric Utilities and Infrastructure's generation stations as of December 31, 2018. The MW displayed in the table below are based on summer capacity. Ownership interest in all facilities is 100 percent unless otherwise indicated.

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Carolinas				
Oconee	Nuclear	Uranium	SC	2,554
McGuire	Nuclear	Uranium	NC	2,316
Catawba ^(a)	Nuclear	Uranium	SC	445
Belews Creek	Fossil	Coal	NC	2,220
Marshall	Fossil	Coal	NC	2,058
J.E. Rogers	Fossil	Coal	NC	1,388
Lincoln CT	Fossil	Gas/Oil	NC	1,193
Allen	Fossil	Coal	NC	1,098
Rockingham CT	Fossil	Gas/Oil	NC	825
Buck CC	Fossil	Gas	NC	668
Dan River CC	Fossil	Gas	NC	662
Mill Creek CT	Fossil	Gas/Oil	SC	563
W.S. Lee CC ^(a)	Fossil	Gas	SC	686
W.S. Lee	Fossil	Gas	SC	170
W.S. Lee CT	Fossil	Gas/Oil	SC	84
Bad Creek	Hydro	Water	SC	1,360
Jocassee	Hydro	Water	SC	780
Cowans Ford	Hydro	Water	NC	324
Keowee	Hydro	Water	SC	152
Other small facilities (23 plants)	Hydro	Water	NC/SC	632
Distributed generation	Renewable	Solar	NC	31
Total Duke Energy Carolinas				20,209

PART I

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Progress				
Brunswick	Nuclear	Uranium	NC	1,870
Harris	Nuclear	Uranium	NC	932
Robinson	Nuclear	Uranium	SC	741
Roxboro	Fossil	Coal	NC	2,439
Smith CC	Fossil	Gas/Oil	NC	1,073
H.F. Lee CC	Fossil	Gas/Oil	NC	888
Wayne County CT	Fossil	Gas/Oil	NC	857
Smith CT	Fossil	Gas/Oil	NC	772
Darlington CT	Fossil	Gas/Oil	SC	613
Mayo	Fossil	Coal	NC	727
L.V. Sutton CC	Fossil	Gas/Oil	NC	607
Asheville	Fossil	Coal	NC	378
Asheville CT	Fossil	Gas/Oil	NC	320
Weatherspoon CT	Fossil	Gas/Oil	NC	124
L.V. Sutton CT (Black Start)	Fossil	Gas/Oil	NC	78
Blewett CT	Fossil	Oil	NC	52
Walters	Hydro	Water	NC	112
Other small facilities (3 plants)	Hydro	Water	NC	115
Distributed generation	Renewable	Solar	NC	49
Total Duke Energy Progress				12,747
Duke Energy Florida				
Citrus County CC	Fossil	Gas	FL	1,632
Crystal River	Fossil	Coal	FL	1,422
Hines CC	Fossil	Gas/Oil	FL	2,045
Bartow CC	Fossil	Gas/Oil	FL	1,104
Anclote	Fossil	Gas	FL	1,003
Intercession City CT	Fossil	Gas/Oil	FL	951
Osprey CC	Fossil	Gas/Oil	FL	582
DeBary CT	Fossil	Gas/Oil	FL	561
Tiger Bay CC	Fossil	Gas/Oil	FL	200
Bartow CT	Fossil	Gas/Oil	FL	168
Bayboro CT	Fossil	Oil	FL	171
Suwannee River CT	Fossil	Gas	FL	149
Higgins CT	Fossil	Gas/Oil	FL	107
Avon Park CT	Fossil	Gas/Oil	FL	48
University of Florida CoGen CT	Fossil	Gas	FL	44
Hamilton	Renewable	Solar	FL	43
Distributed generation	Renewable	Solar	FL	8
Total Duke Energy Florida				10,238
Duke Energy Ohio				
East Bend	Fossil	Coal	KY	600
Woodsdale CT	Fossil	Gas/Propane	OH	476
Beckjord Battery Storage	Renewable	Storage	OH	4
Total Duke Energy Ohio				1,080
Duke Energy Indiana				
Gibson ^(c)	Fossil	Coal	IN	2,822
Cayuga ^(d)	Fossil	Coal/Oil	IN	1,005
Edwardsport	Fossil	Coal	IN	595
Madison CT	Fossil	Gas	OH	566
Vermillion CT ^(e)	Fossil	Gas	IN	360
Wheatland CT	Fossil	Gas	IN	450
Noblesville CC	Fossil	Gas/Oil	IN	264
Gallagher	Fossil	Coal	IN	280
Henry County CT	Fossil	Gas/Oil	IN	129
Cayuga CT	Fossil	Gas/Oil	IN	80
Markland	Hydro	Water	IN	45
Distributed generation	Renewable	Solar	IN	10
Total Duke Energy Indiana				6,606

PART I

	Owned MW Capacity
Totals by Type	
Total Electric Utilities	50,880
Totals By Plant Type	
Nuclear	8,858
Fossil	38,357
Hydro	3,520
Renewable	145
Total Electric Utilities	50,880

- (a) Jointly owned with North Carolina Municipal Power Agency Number 1, NCEMC and PMPA. Duke Energy Carolinas' ownership is 19.25 percent of the facility.
(b) Jointly owned with NCEMC. Duke Energy Carolinas' ownership is 86.67 percent of the facility.
(c) Duke Energy Indiana owns and operates Gibson Station Units 1 through 4 and is a joint owner of unit 5 with WVPA and Indiana Municipal Power Agency. Duke Energy Indiana operates unit 5 and owns 50.05 percent.
(d) Includes Cayuga Internal Combustion.
(e) Jointly owned with WVPA. Duke Energy Indiana's ownership is 62.50 percent of the facility.

The following table provides information related to Electric Utilities and Infrastructure's electric transmission and distribution properties as of December 31, 2018.

	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Electric Transmission Lines						
Miles of 500 to 525 kV	1,036	576	292	168	—	—
Miles of 345 kV	1,145	—	—	—	421	724
Miles of 230 kV	8,344	2,657	3,396	1,638	—	653
Miles of 100 to 161 kV	12,509	6,830	2,565	891	821	1,402
Miles of 13 to 69 kV	8,345	3,014	12	2,200	612	2,507
Total conductor miles of electric transmission lines	31,379	13,077	6,265	4,897	1,854	5,286
Electric Distribution Lines						
Miles of overhead lines	174,200	66,600	46,500	25,600	13,300	22,200
Miles of underground line	106,000	38,500	30,000	22,500	6,000	9,000
Total conductor miles of electric distribution lines	280,200	105,100	76,500	48,100	19,300	31,200
Number of electric transmission and distribution substations	3,291	1,476	512	493	310	500

Substantially all of Electric Utilities and Infrastructure's electric plant in service is mortgaged under indentures relating to Duke Energy Carolinas', Duke Energy Progress', Duke Energy Florida's, Duke Energy Ohio's and Duke Energy Indiana's various series of First Mortgage Bonds.

GAS UTILITIES AND INFRASTRUCTURE

Gas Utilities and Infrastructure owns transmission pipelines and distribution mains that are generally underground, located near public streets and highways, or on property owned by others for which Duke Energy Ohio and Piedmont have obtained the necessary legal rights to place and operate facilities on such property located within the Gas Utilities and Infrastructure service territories. The following table provides information related to Gas Utilities and Infrastructure's natural gas distribution.

	Duke Energy	Duke Energy Ohio	Piedmont
Miles of natural gas distribution and transmission pipelines	33,300	7,200	26,100
Miles of natural gas service lines	27,700	7,000	20,700

PART I

COMMERCIAL RENEWABLES

The following table provides information related to Commercial Renewables' electric generation facilities as of December 31, 2018. The MW displayed in the table below are based on nameplate capacity. Ownership interest in all facilities is 100 percent unless otherwise indicated.

Facility	Plant Type	Location	Owned MW Capacity
Commercial Renewables – Wind			
Los Vientos (five sites)	Renewable	TX	912
Top of the World	Renewable	WY	200
Frontier	Renewable	OK	201
Notrees	Renewable	TX	153
Campbell Hill	Renewable	WY	99
North Allegheny	Renewable	PA	70
Laurel Hill	Renewable	PA	69
Ocotillo	Renewable	TX	59
Kit Carson	Renewable	CO	51
Silver Sage	Renewable	WY	42
Happy Jack	Renewable	WY	29
Shirley	Renewable	WI	20
Sweetwater IV ^(a)	Renewable	TX	113
Sweetwater V ^(a)	Renewable	TX	38
Ironwood ^(a)	Renewable	KS	84
Cimarron II ^(a)	Renewable	KS	66
Mesquite Creek ^(a)	Renewable	TX	106
Total Renewables – Wind			2,312
Commercial Renewables – Solar			
Conetoe II	Renewable	NC	80
Seville I & II	Renewable	CA	50
Rio Bravo I & II	Renewable	CA	40
Wildwood I & II	Renewable	CA	35
Caprock	Renewable	NM	25
Shoreham ^(b)	Renewable	NY	25
Kelford	Renewable	NC	22
Highlander	Renewable	CA	21
Dogwood	Renewable	NC	20
Halifax Airport	Renewable	NC	20
Pasquotank	Renewable	NC	20
Pumpjack	Renewable	CA	20
Shawboro	Renewable	NC	20
Longboat	Renewable	CA	20
Bagdad	Renewable	AZ	15
TX Solar	Renewable	TX	14
Creswell Alligood	Renewable	NC	14
Victory	Renewable	CO	13
Washington White Post	Renewable	NC	12
Whitakers	Renewable	NC	12
Other small solar ^(b)	Renewable	Various	145
Total Renewables – Solar			643
Commercial Renewables – Energy Storage			
Notrees Battery Storage	Renewable	TX	36
Total Renewables – Energy Storage			36
Total Commercial Renewables			2,991

(a) Commercial Renewables owns 47 percent of Sweetwater IV and V and 50 percent of Ironwood, Cimarron II and Mesquite Creek.

(b) Shoreham and certain projects included in Other small solar are in tax-equity structures where investors have differing interests in the project's economic attributes. 100 percent of the tax-equity project's capacity is included in the table above.

PART I

OTHER

Duke Energy owns approximately 8 million square feet and leases approximately 2 million square feet of corporate, regional and district office space spread throughout its service territories.

ITEM 3. LEGAL PROCEEDINGS

For information regarding legal proceedings, including regulatory and environmental matters, see Note 4, "Regulatory Matters," and Note 5, "Commitments and Contingencies," to the Consolidated Financial Statements.

MTBE Litigation

On June 19, 2014, the Commonwealth of Pennsylvania filed suit against, among others, Duke Energy Merchants, alleging contamination of waters of the state by MTBE from leaking gasoline storage tanks. MTBE is a gasoline additive intended to increase the oxygen level in gasoline and make it burn cleaner. The lawsuit was moved to federal court and consolidated into an existing multidistrict litigation docket of pending MTBE cases. This suit was settled for an immaterial amount in December 2017 and dismissed in January 2018.

In December 2017, the state of Maryland filed a lawsuit in Baltimore City Circuit Court against Duke Energy Merchants and other defendants alleging contamination of its water supplies from MTBE. The case was removed to the U.S. District Court in Baltimore. Duke Energy cannot predict the outcome of this matter.

ITEM 4. MINE SAFETY DISCLOSURES

This is not applicable for any of the Duke Energy Registrants.

PART II

ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

The common stock of Duke Energy is listed and traded on the NYSE (ticker symbol DUK). As of January 31, 2019, there were 149,275 Duke Energy common stockholders of record. For information on dividends, see the "Dividend Payments" section of Management's Discussion and Analysis.

There is no market for the common equity securities of the Subsidiary Registrants, all of which are directly or indirectly owned by Duke Energy.

Securities Authorized for Issuance Under Equity Compensation Plans

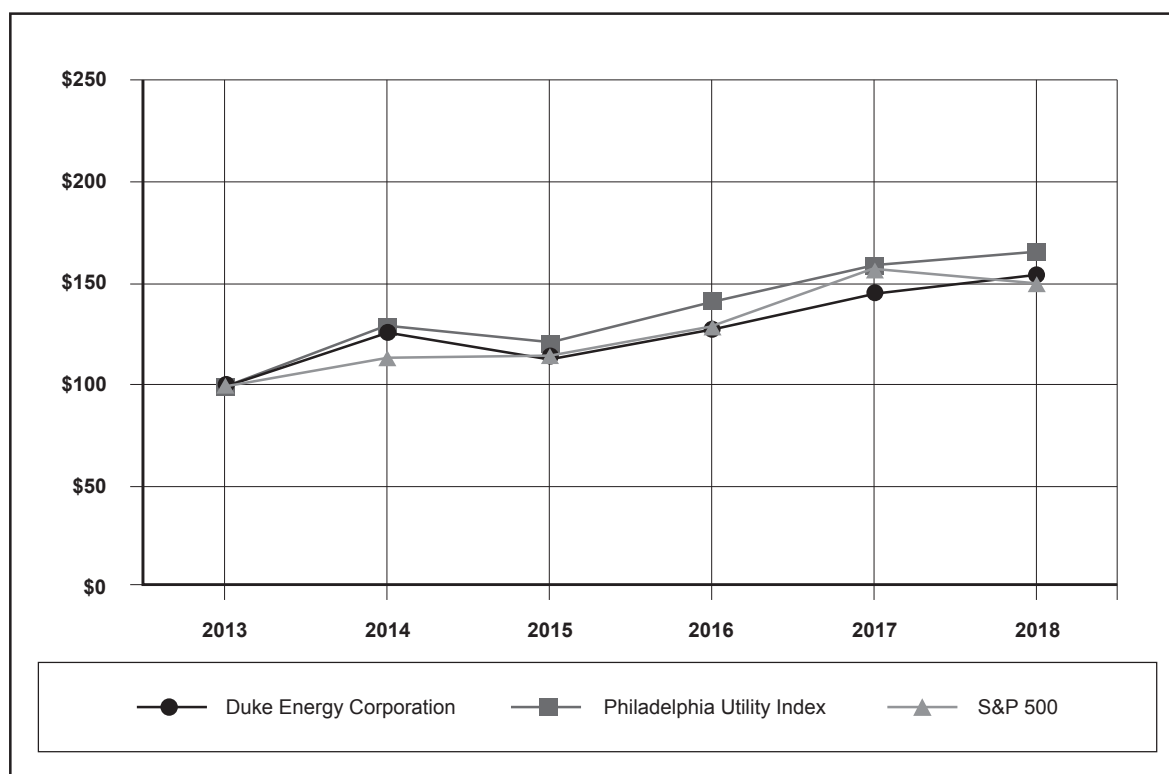
See Item 12 of Part III within this Annual Report for information regarding Securities Authorized for Issuance Under Equity Compensation Plans.

Issuer Purchases of Equity Securities for Fourth Quarter 2018

There were no repurchases of equity securities during the fourth quarter of 2018.

Stock Performance Graph

The following performance graph compares the cumulative total shareholder return from Duke Energy Corporation common stock, as compared with the S&P 500 and the Philadelphia Utility Index for the past five years. The graph assumes an initial investment of \$100 on December 31, 2013, in Duke Energy common stock, in the S&P 500 and in the Philadelphia Utility Index and that all dividends were reinvested. The stockholder return shown below for the five-year historical period may not be indicative of future performance.



NYSE CEO Certification

Duke Energy has filed the certification of its Chief Executive Officer and Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 as exhibits to this Annual Report on Form 10-K for the year ended December 31, 2018.

PART II

ITEM 6. SELECTED FINANCIAL DATA

The following table provides selected financial data for the years of 2014 through 2018. See also Item 7.

(in millions, except per share amounts)	2018	2017	2016	2015	2014
Statements of Operations^(a)					
Total operating revenues	\$ 24,521	\$ 23,565	\$ 22,743	\$ 22,371	\$ 22,509
Operating income	4,685	5,625	5,202	4,974	4,795
Income from continuing operations	2,625	3,070	2,578	2,654	2,538
Income (Loss) from discontinued operations, net of tax	19	(6)	(408)	177	(649)
Net income	2,644	3,064	2,170	2,831	1,889
Net income attributable to Duke Energy Corporation	2,666	3,059	2,152	2,816	1,883
Common Stock Data					
Income from continuing operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ 3.73	\$ 4.37	\$ 3.71	\$ 3.80	\$ 3.58
Diluted	3.73	4.37	3.71	3.80	3.58
Income (Loss) from discontinued operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ 0.03	\$ (0.01)	\$ (0.60)	\$ 0.25	\$ (0.92)
Diluted	0.03	(0.01)	(0.60)	0.25	(0.92)
Net income attributable to Duke Energy Corporation common stockholders					
Basic	\$ 3.76	\$ 4.36	\$ 3.11	\$ 4.05	\$ 2.66
Diluted	3.76	4.36	3.11	4.05	2.66
Dividends declared per share of common stock	3.64	3.49	3.36	3.24	3.15
Balance Sheet					
Total assets	\$ 145,392	\$ 137,914	\$ 132,761	\$ 121,156	\$ 120,557
Long-term debt including capital leases, less current maturities	51,123	49,035	45,576	36,842	36,075

(a) Significant transactions reflected in the results above include: (i) regulatory and legislative charges related to Duke Energy Progress and Duke Energy Carolinas North Carolina rate case orders and impairment charges in 2018 (see Notes 4, 11 and 12 to the Consolidated Financial Statements, "Regulatory Matters," "Goodwill and Intangible Assets" and "Investments in Unconsolidated Affiliates"); (ii) the sale of the International Disposal Group in 2016, including a loss on sale recorded within discontinued operations (see Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions"); (iii) the acquisition of Piedmont in 2016, including losses on interest rate swaps related to the acquisition financing (see Note 2); (iv) 2014 impairment related to the disposal of the Midwest Generation Disposal Group; (v) 2014 incremental tax expense resulting from the decision to repatriate all cumulative historical undistributed foreign earnings; (vi) 2014 increase in the litigation reserve related to a criminal investigation of the Dan River release.

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Management's Discussion and Analysis includes financial information prepared in accordance with GAAP in the U.S., as well as certain non-GAAP financial measures such as adjusted earnings and adjusted earnings per share discussed below. Generally, a non-GAAP financial measure is a numerical measure of financial performance, financial position or cash flows that excludes (or includes) amounts that are included in (or excluded from) the most directly comparable measure calculated and presented in accordance with GAAP. The non-GAAP financial measures should be viewed as a supplement to, and not a substitute for, financial measures presented in accordance with GAAP. Non-GAAP measures as presented herein may not be comparable to similarly titled measures used by other companies.

The following combined Management's Discussion and Analysis of Financial Condition and Results of Operations is separately filed by Duke Energy Corporation (collectively with its subsidiaries, Duke Energy) and its subsidiaries Duke Energy Carolinas, LLC (Duke Energy Carolinas), Progress Energy, Inc. (Progress Energy), Duke Energy Progress, LLC (Duke Energy Progress), Duke Energy Florida, LLC (Duke Energy Florida), Duke Energy Ohio, Inc. (Duke Energy Ohio), Duke Energy Indiana, LLC (Duke Energy Indiana) and Piedmont Natural Gas Company, Inc. (Piedmont). However, none of the registrants make any representation as to information related solely to Duke Energy or the subsidiary registrants of Duke Energy other than itself. Subsequent to Duke Energy's acquisition of Piedmont on October 3, 2016, Piedmont is a wholly owned subsidiary of Duke Energy. The financial information for Duke Energy includes results of Piedmont subsequent to October 3, 2016. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information regarding the acquisition.

DUKE ENERGY

Duke Energy is an energy company headquartered in Charlotte, North Carolina. Duke Energy operates in the U.S. primarily through its wholly owned subsidiaries, Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont. When discussing Duke Energy's consolidated financial information, it necessarily includes the results of the Subsidiary Registrants, which along with Duke Energy, are collectively referred to as the Duke Energy Registrants.

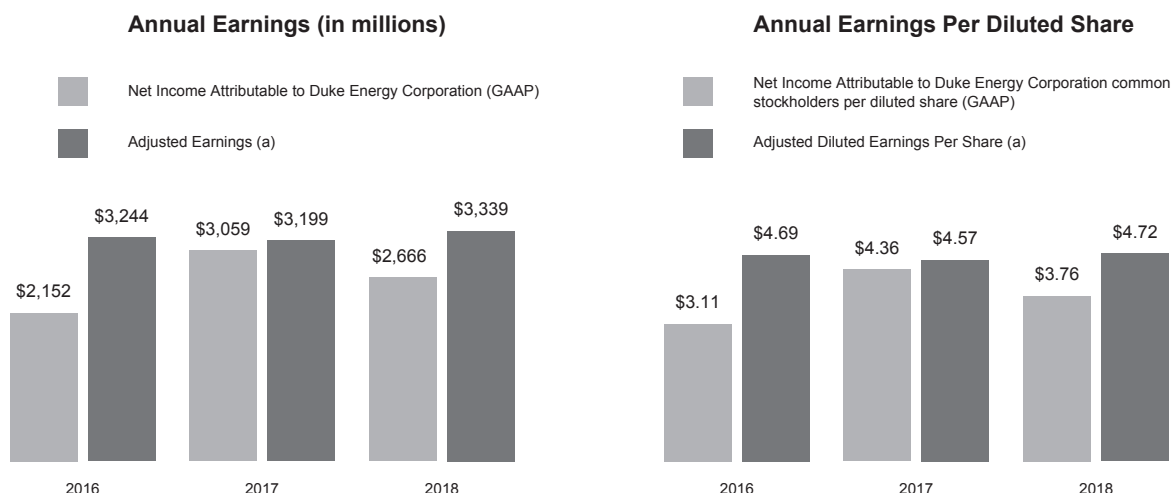
Management's Discussion and Analysis should be read in conjunction with the Consolidated Financial Statements and Notes for the years ended December 31, 2018, 2017 and 2016.

Executive Overview

At Duke Energy the fundamentals of our business are strong. In 2018, we met our near-term financial commitments and positioned the company for sustainable long-term growth. We are focused on a stable, predictable and regulated businesses portfolio to deliver a reliable dividend with 4 to 6 percent EPS growth through 2023. We have made progress advancing our long-term growth strategy that delivers value to our customers through investments in cleaner energy, grid modernization, natural gas infrastructure, and digital transformation, while also achieving constructive regulatory outcomes. The strength of our balance sheet is of vital importance to the cost-effective financing of our growth strategy, and in 2018 we took proactive steps to strengthen it by issuing \$2 billion of equity.

PART II

Financial Results



(a) See Results of Operations below for Duke Energy's definition of adjusted earnings and adjusted diluted earnings per share as well as a reconciliation of this non-GAAP financial measure to net income attributable to Duke Energy and net income attributable to Duke Energy per diluted share.

Duke Energy's 2018 GAAP reported earnings were impacted by favorable weather, improved residential volumes and ongoing cost management efforts, offset by charges which management believes are not indicative of ongoing performance, including regulatory and legislative items, impairments, a loss on the sale of a retired plant, and severance. See "Results of Operations" below for a detailed discussion of the consolidated results of operations and a detailed discussion of financial results for each of Duke Energy's reportable business segments, as well as Other.

2018 Areas of Focus and Accomplishments

Operational Excellence and Reliability. The safety of our workforce is a core value. Our employees delivered strong safety results in 2018, and we maintained our industry-leading performance levels from 2016 and 2017. The reliable and safe operation of our power plants, electric distribution system and natural gas infrastructure is foundational to our customers, our financial results and our credibility with stakeholders. Our nuclear and fossil/hydro generation fleets demonstrated strong performance, exceeding their respective reliability targets. Five of our six nuclear sites have achieved INPO 1 status, the industry's highest distinction. Our electric distribution system performed well throughout the year, though we see opportunities to reduce outage durations.

Storm Response and System Restoration. 2018 was a year of intense storm activity, with Hurricane Florence and Hurricane Michael delivering a significant impact to our jurisdictions. Employees and utility partners worked tirelessly to restore 3 million outages during the hurricane season. Our team restored 93 percent of outages within five days during Hurricane Florence and 90 percent of outages within three days during Hurricane Michael. Our ability to effectively handle all facets of the 2018 storm response efforts is a testament to our team's extensive preparation and coordination in advance of the storm, applying lessons learned from previous storms, and on-the-ground management throughout the restoration efforts.

Customer Satisfaction. Duke Energy continues to transform the customer experience through our use of customer data to better inform operational priorities and performance levels. This data-driven approach allows us to identify the investments that are the most important to the customer

experience. In 2018, we instituted more proactive communications, such as text alerts during outages, in response to customer expectations. Over time our work with data analytics will result in customer satisfaction improvement as measured through J.D. Power and other surveys.

Constructive Regulatory and Legislative Outcomes. One of our long-term strategic goals is to achieve modernized regulatory constructs in our jurisdictions. Modernized constructs provide benefits, which include improved earnings and cash flows through more timely recovery of investments, as well as stable pricing for customers. We achieved constructive regulatory outcomes in 2018 in North Carolina for both Duke Energy Carolinas and Duke Energy Progress, including the recovery of coal ash basin closure costs. The Ohio Comprehensive Settlement Agreement in 2018, approved by PUCO, was a favorable outcome that will enable the creation of a new PowerForward rider to recover costs associated with projects to modernize the grid and transform the customer experience. We are making progress in addressing tax reform across our jurisdictions, targeting solutions that provide benefits to customers and support the long-term credit quality of our utilities.

Cost Management and Efficiencies. Duke Energy has a demonstrated track record of driving efficiencies and productivity into the business, including merger integration and continuous improvement efforts. We continue to leverage new technology and data analytics to drive additional efficiencies across the business in response to a transforming landscape. In 2018, we established a digital transformation initiative that is tasked with identifying the best ways to use digital capabilities throughout our business.

Modernizing the Power Grid. Our grid improvement programs continue to be a key component of our growth strategy. Modernization of the electric grid, including smart meters, storm hardening, self-healing and targeted undergrounding helps to ensure the system is better prepared for severe weather, improves the system's reliability and flexibility, and provides better information and services for customers. Grid improvements enable successful storm response; for example, in the Carolinas, self-healing grid technologies rerouted power from damaged lines and systems to minimize outages. In 2018, we deployed 1.6 million smart meters resulting in 4.3 million customers having access to this technology across our regulated footprint.

PART II

Generating Cleaner Energy. We advanced efforts to generate cleaner energy, including progress on several strategic investments during 2018. Overall, we have lowered our carbon emissions by over 30 percent since 2005, consistent with our goal to reduce carbon emissions by 40 percent by 2030. Two natural gas plants came online in 2018 and construction continues on a third one. In our Commercial Renewable business, our Shoreham solar facility came online in 2018.

Expanding the Natural Gas Platform. We continue to pursue natural gas infrastructure investments. We are working diligently to construct the ACP pipeline to bring low-cost gas supply and economic development opportunities to the Mid-Atlantic. While we navigate the impacts of permitting delays and court rulings, we remain steadfast in our commitment to this backbone infrastructure for the southeast U.S. In 2018, Piedmont announced plans to construct a new liquefied natural gas facility in Robeson County North Carolina on property Piedmont already owns. This investment will help Piedmont provide a reliable gas supply to customers during peak usage periods. We expect to begin construction in the summer of 2019.

Dividend Growth. In 2018, Duke Energy continued to grow the dividend payment to shareholders by approximately 4 percent. 2018 represented the 92nd consecutive year Duke Energy paid a cash dividend on its common stock.

Duke Energy Objectives – 2019 and Beyond

Duke Energy will continue to deliver exceptional value to customers, be an integral part of the communities in which we do business, and provide attractive returns to investors. We have an achievable, long-term strategy in place and it is producing tangible results, yet the industry in which we operate is becoming more and more dynamic. We are adjusting, where necessary, and accelerating our focus in key areas to ensure the company is well positioned to be successful for many decades into the future. As we look ahead to 2019, our plans include:

- Continuing to place the customer at the center of all that we do.
- Advancing the achievement of modernized regulatory constructs across all jurisdictions, including consideration of cost recovery models that break the link between load growth and earnings.
- Improving and strengthening the energy grid to provide customers with more control, convenience and communications, and make the grid more resilient to severe weather and ever-evolving cyber threats.
- Investing in both natural gas generation and infrastructure to support our growing gas system, as we replace coal units and continue to expand our LDC customer base in the Carolinas and Midwest.
- Increasing renewables, energy storage and next-generation demand-side management into our supply/demand resource plans, in pursuit of a growth strategy that leverages these resources to provide choices that our customers value.
- Modernizing the way we plan and build our generation, transmission, distribution and customer systems in a fully integrated way through Integrated System and Operations Planning to accommodate increased distributed energy resources.
- Transforming the business using multiple levers, including digital tools, to increase productivity and reinvest the proceeds into new growth opportunities, improved customer service, and lower bills for customers.

Results of Operations

Non-GAAP Measures

Management evaluates financial performance in part based on non-GAAP financial measures, including adjusted earnings and adjusted diluted EPS. These items represent income from continuing operations attributable to Duke Energy, adjusted for the dollar and per share impact of special items. As discussed below, special items include certain charges and credits, which management believes are not indicative of Duke Energy's ongoing performance. Management believes the presentation of adjusted earnings and adjusted diluted EPS provides useful information to investors, as it provides them with an additional relevant comparison of Duke Energy's performance across periods.

Management uses these non-GAAP financial measures for planning and forecasting, and for reporting financial results to the Board of Directors, employees, stockholders, analysts and investors. Adjusted diluted EPS is also used as a basis for employee incentive bonuses. The most directly comparable GAAP measures for adjusted earnings and adjusted diluted EPS are GAAP Reported Earnings and GAAP Reported EPS, respectively.

Special items included in the periods presented include the following, which management believes do not reflect ongoing costs:

- Costs to Achieve Mergers represents charges that result from strategic acquisitions.
- Regulatory and Legislative Impacts in 2018 represents charges related to the Duke Energy Progress and Duke Energy Carolinas North Carolina rate case orders and the repeal of the South Carolina Base Load Review Act. For 2017, it represents charges related to the Levy nuclear project in Florida and the Mayo Zero Liquid Discharge and Sutton combustion turbine projects in North Carolina.
- Impairment Charges in 2018 represents an impairment at Citrus County CC, a goodwill impairment at Commercial Renewables and an other-than-temporary impairment of an investment in Constitution Pipeline Company, LLC. For 2017 and 2016, the charges represent goodwill and other-than-temporary asset impairments at Commercial Renewables.
- Sale of Retired Plant represents the loss associated with selling Beckjord, a nonregulated generating facility in Ohio.
- Impacts of the Tax Act represents amounts recognized related to the Tax Act.
- Severance Charges relate to companywide initiatives, excluding merger integration, to standardize processes and systems, leverage technology and workforce optimization.

Adjusted earnings also include the operating results of the International Disposal Group, which has been classified as discontinued operations. Management believes inclusion of the operating results of the International Disposal Group within adjusted earnings and adjusted diluted EPS results in a better reflection of Duke Energy's financial performance during the period.

Duke Energy's adjusted earnings and adjusted diluted EPS may not be comparable to similarly titled measures of another company because other companies may not calculate the measures in the same manner.

PART II

Reconciliation of GAAP Reported Amounts to Adjusted Amounts

The following table presents a reconciliation of adjusted earnings and adjusted diluted EPS to the most directly comparable GAAP measures.

(in millions, except per share amounts)	Years Ended December 31,					
	2018		2017		2016	
	Earnings	EPS	Earnings	EPS	Earnings	EPS
GAAP Reported Earnings/EPS	\$ 2,666	\$ 3.76	\$ 3,059	\$ 4.36	\$ 2,152	\$ 3.11
Adjustments to Reported:						
Costs to Achieve Mergers ^(a)	65	0.09	64	0.09	329	0.48
Regulatory and Legislative Impacts ^(b)	202	0.29	98	0.14	—	—
Impairment Charges ^(c)	179	0.25	74	0.11	45	0.07
Sale of Retired Plant ^(d)	82	0.12	—	—	—	—
Impacts of the Tax Act ^(e)	20	0.03	(102)	(0.14)	—	—
Severance Charges ^(f)	144	0.21	—	—	57	0.08
Discontinued Operations ^(g)	(19)	(0.03)	6	0.01	661	0.95
Adjusted Earnings/Adjusted Diluted EPS	\$ 3,339	\$ 4.72	\$ 3,199	\$ 4.57	\$ 3,244	\$ 4.69

(a) Net of tax benefit of \$19 million in 2018, \$39 million in 2017, and \$194 million in 2016.

(b) Net of tax benefit of \$63 million in 2018 and \$60 million in 2017.

(c) Net of \$27 million tax benefit and \$2 million Noncontrolling Interests in 2018. Net of \$28 million tax benefit in 2017 and \$26 million in 2016.

(d) Net of \$25 million tax benefit.

(e) The Tax Act reduced the corporate income tax rate from 35 to 21 percent, effective January 1, 2018. As the tax change was enacted in 2017, Duke Energy was required to remeasure its existing deferred tax assets and liabilities at the lower rate at December 31, 2017. For Duke Energy's regulated operations, where the reduction in the net accumulated deferred income tax liability is expected to be returned to customers in future rates, the remeasurement has been deferred as a regulatory liability. For 2018, the amount represents a true up of existing regulatory liabilities related to the Tax Act. See Note 23 to the Consolidated Financial Statements, "Income Taxes" for more information.

(f) Net of tax benefit of \$43 million in 2018 and \$35 million in 2016.

(g) For 2016, includes a loss on sale of the International Disposal Group. Represents the GAAP reported Loss from Discontinued Operations, less the International Disposal Group operating results, which are included in adjusted earnings. For 2017 and 2018, amounts reflect adjustments related to the sale of the International Disposal Group, primarily related to estimated tax expense.

Year Ended December 31, 2018, as compared to 2017

Duke Energy's full-year 2018 GAAP Reported EPS was \$3.76 compared to \$4.36 for full-year 2017. In addition to the adjusted diluted EPS drivers discussed below, GAAP Reported EPS in 2018 was lower primarily due to regulatory and legislative impacts, impairment charges, severance charges and a loss on sale of a retired plant.

As discussed, management also evaluates financial performance based on adjusted earnings. Duke Energy's full-year 2018 adjusted diluted EPS was \$4.72 compared to \$4.57 for full-year 2017. The increase in adjusted diluted EPS was primarily due to:

- Higher regulated electric revenues due to favorable weather and higher retail sales volumes in the current year;
- Positive impacts from the North Carolina rate case orders; and
- Rider growth.

Partially offset by:

- Higher interest expense due to higher debt outstanding and higher interest rates;
- Higher depreciation and amortization expense at Electric Utilities and Infrastructure primarily due to rate base growth; and
- A reduced tax benefit on holding company interest as a result of the Tax Act.

Year Ended December 31, 2017, as compared to 2016

Duke Energy's full-year 2017 GAAP Reported EPS was \$4.36 compared to \$3.11 for full-year 2016. In addition to the adjusted diluted EPS drivers discussed below, GAAP Reported EPS in 2017 was higher primarily due to a \$0.14 benefit per share related to the Tax Act in 2017, lower costs to achieve

the Piedmont merger and a loss on sale and impairments associated with the sale of the International Disposal Group in 2016, partially offset by charges of \$0.14 related to regulatory settlements in Electric Utilities and Infrastructure.

As discussed, management also evaluates financial performance based on adjusted earnings. Duke Energy's full-year 2017 adjusted diluted EPS was \$4.57 compared to \$4.69 for full-year 2016. The decrease in adjusted diluted EPS was primarily due to:

- Lower regulated electric revenues due to less favorable weather in the current year, including lost revenues related to Hurricane Irma;
- The prior year operating results from the International Disposal Group, which was sold in December 2016. The 2016 operating results included a benefit from the valuation of deferred income taxes. See Note 23 to the Consolidated Financial Statements, "Income Taxes," for additional information;
- Higher financing costs, primarily due to the Piedmont acquisition; and
- Higher depreciation and amortization expense at Electric Utilities and Infrastructure primarily due to higher depreciable base.

Partially offset by:

- Higher regulated electric revenues from increased pricing and riders driven by new rates in Duke Energy Progress South Carolina, base rate adjustments in Florida and energy efficiency rider revenues in North Carolina, as well as growth in weather-normal retail volumes;
- Lower operations, maintenance and other expenses, net of amounts recoverable in rates, at Electric Utilities and Infrastructure resulting from ongoing cost efficiency efforts and lower year-to-date storm costs than the prior year; and
- Additional earnings from incremental investments in ACP and Sabal Trail natural gas pipelines.

PART II

SEGMENT RESULTS

The remaining information presented in this discussion of results of operations is on a GAAP basis. Management evaluates segment performance based on segment income. Segment income is defined as income from continuing operations net of income attributable to noncontrolling interests. Segment income includes intercompany revenues and expenses that are eliminated in the Consolidated Financial Statements.

Duke Energy's segment structure includes the following segments: Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables. The remainder of Duke Energy's operations is presented as Other. See Note 3 to the Consolidated Financial Statements, "Business Segments," for additional information on Duke Energy's segment structure.

The Tax Act

On December 22, 2017, President Trump signed the Tax Act into law. Among other provisions, the Tax Act lowered the corporate federal income tax rate from 35 to 21 percent, limits interest deductions outside of regulated utility operations, requires the normalization of excess deferred taxes associated

with property under the average rate assumption method as a prerequisite to qualifying for accelerated depreciation and repealed the federal manufacturing deduction. The Tax Act also repealed the corporate AMT and stipulates a refund of 50 percent of remaining AMT credit carryforwards (to the extent the credits exceed regular tax for the year) for tax years 2018, 2019 and 2020 with all remaining AMT credits to be refunded in tax year 2021.

As a result of the Tax Act, Duke Energy revalued its existing deferred tax assets and deferred tax liabilities as of December 31, 2017, to account for the estimated future impact of lower corporate tax rates on these deferred tax amounts. During the year ended December 31, 2018, Duke Energy recorded measurement period adjustments to the provisional estimate recorded as of December 31, 2017, in accordance with SAB 118. For Duke Energy's regulated operations, where the net reduction in the net accumulated deferred income tax liability is expected to be returned to customers in future rates, the remeasurement has been deferred as a regulatory liability. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information on the Tax Act's impact to the regulatory asset and liability accounts. The following table shows the expense (benefit) recorded on Duke Energy's Consolidated Statements of Operations.

(in millions)	Years Ended December 31,	
	2018	2017
Electric Utilities and Infrastructure ^(c)	\$ 24	\$ (231)
Gas Utilities and Infrastructure ^{(d)(e)}	1	(26)
Commercial Renewables	(3)	(442)
Other ^(f)	(2)	597
Total impact of the Tax Act ^{(a)(b)(d)}	\$ 20	\$ (102)

(a) Except where noted below, amounts are included within Income Tax Expense From Continuing Operations on the Consolidated Statements of Operations.

(b) See Notes 4 and 23 to the Consolidated Financial Statements, "Regulatory Matters" and "Income Taxes," respectively, for information about the Tax Act's impact on Duke Energy's Consolidated Balance Sheets.

(c) Amount primarily relates to the 2017 remeasurement, and true up of that remeasurement in 2018, of net deferred tax liabilities that are excluded for ratemaking purposes related to abandoned or impaired assets and certain wholesale fixed rate contracts.

(d) 2017 amount includes a \$16 million expense recorded within Equity in earnings (losses) of unconsolidated affiliates on the Consolidated Statement of Operations.

(e) 2017 amount primarily relates to the remeasurement of net deferred tax liabilities related to equity method investments.

(f) 2017 amount primarily relates to the remeasurement of Foreign Tax Credits, federal NOLs and nonregulated deferred tax assets.

Electric Utilities and Infrastructure

(in millions)	Years Ended December 31,				
	2018	2017	Variance 2018 vs. 2017	2016	Variance 2017 vs. 2016
Operating Revenues	\$ 22,273	\$ 21,331	\$ 942	\$ 21,366	\$ (35)
Operating Expenses					
Fuel used in electric generation and purchased power	6,917	6,379	538	6,595	(216)
Operations, maintenance and other	5,631	5,360	271	5,433	(73)
Depreciation and amortization	3,523	3,010	513	2,897	113
Property and other taxes	1,134	1,079	55	1,021	58
Impairment charges	309	176	133	16	160
Total operating expenses	17,514	16,004	1,510	15,962	42
Gains on Sales of Other Assets and Other, net	8	6	2	—	6
Operating Income	4,767	5,333	(566)	5,404	(71)
Other Income and Expenses, net	378	472	(94)	444	28
Interest Expense	1,288	1,240	48	1,136	104
Income Before Income Taxes	3,857	4,565	(708)	4,712	(147)
Income Tax Expense	799	1,355	(556)	1,672	(317)
Segment Income	\$ 3,058	\$ 3,210	\$ (152)	\$ 3,040	\$ 170
Duke Energy Carolinas Gigawatt-hours (GWh) sales	92,280	87,305	4,975	88,545	(1,240)
Duke Energy Progress GWh sales	69,331	66,822	2,509	69,049	(2,227)
Duke Energy Florida GWh sales	41,559	40,591	968	40,404	187
Duke Energy Ohio GWh sales	25,329	24,639	690	25,163	(524)
Duke Energy Indiana GWh sales	34,229	33,145	1,084	34,368	(1,223)
Total Electric Utilities and Infrastructure GWh sales	262,728	252,502	10,226	257,529	(5,027)
Net proportional MW capacity in operation	49,684	48,828	856	49,295	(467)

PART II

Year Ended December 31, 2018, as compared to 2017

Electric Utilities and Infrastructure's results were impacted by higher legislative and regulatory charges compared to the prior year and higher depreciation from a growing asset base, partially offset by favorable weather in the current year, improved retail volumes, lower income tax expense and a positive net contribution from the Duke Energy Progress and Duke Energy Carolinas North Carolina rate cases. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The variance was driven primarily by:

- a \$577 million increase in fuel related revenues due to higher sales volumes driven primarily by favorable weather in the current year, and increases in fuel rates billed to customers, which reflects higher average fuel prices;
- a \$331 million increase in retail sales, net of fuel revenues, due to favorable weather in the current year;
- a \$236 million increase in retail pricing primarily due to the Duke Energy Progress and Duke Energy Carolinas North Carolina rate cases and Duke Energy Florida base rate adjustments related to generation assets being placed into service;
- a \$109 million increase in wholesale power revenues, net of fuel, primarily due to higher recovery of coal ash costs at Duke Energy Progress and Duke Energy Carolinas, partially offset by contracts that expired in the prior year at Duke Energy Indiana and customer refunds in the current year at Duke Energy Carolinas related to a FERC order on a complaint filed by PMPA;
- an \$82 million increase in weather-normal retail sales volumes driven by residential growth;
- a \$73 million net increase in retail rider revenues, primarily related to capital investment riders at Duke Energy Indiana and Duke Energy Ohio, partially offset by a net decrease in rider revenues related to the implementation of new base rates at Duke Energy Carolinas and Duke Energy Progress; and
- a \$49 million increase in other revenues at Duke Energy Carolinas primarily due to the recognition of previously deferred revenues associated with storm restoration costs in South Carolina and favorable transmission revenues.

Partially offset by:

- a \$578 million decrease in retail and wholesale sales due to revenues subject to refund to customers associated with the lower statutory federal corporate tax rate under the Tax Act.

Operating Expenses. The variance was driven primarily by:

- a \$538 million increase in fuel used in electric generation and purchased power due to higher sales and higher amortization of deferred fuel expenses;
- a \$513 million increase in depreciation and amortization expense primarily due to higher amortization of deferred coal ash costs, additional plant in service and new depreciation rates associated with the Duke Energy Progress and Duke Energy Carolinas North Carolina rate cases;
- a \$271 million increase in operation, maintenance and other expense primarily due to impacts associated with the Duke Energy Progress North Carolina rate case and higher storm costs, partially offset by a FERC approved settlement refund of certain transmission costs previously billed by PJM; and

- a \$133 million increase in impairment charges primarily due to the impacts associated with the Duke Energy Carolinas and Duke Energy Progress North Carolina rate cases and the Duke Energy Florida Citrus County CC impairments in the current year, offset by the write-off of remaining unrecovered Levy Nuclear project costs at Duke Energy Florida in the prior year.

Other Income and Expenses, net. The decrease was primarily due to lower post in-service equity returns for projects that had been completed prior to being reflected in customer rates at Duke Energy Carolinas and lower income from non-service components of employee benefit costs in the current year at Duke Energy Progress and Duke Energy Florida. For additional information on employee benefit costs, see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans."

Interest Expense. The variance was due to higher debt outstanding in the current year, partially offset by lower deferred debt costs on major projects.

Income Tax Expense. The variance was primarily due to the lower statutory federal corporate tax rate under the Tax Act, a decrease in pretax income and the impact of the Tax Act in the prior year. The ETRs for the years ended December 31, 2018, and 2017 were 20.7 percent and 29.7 percent, respectively. The decrease in the ETR was primarily due to the lower statutory federal corporate tax rate under the Tax Act and the amortization of excess deferred taxes partially offset by the impact of the Tax Act in the prior year. See the Tax Act section above for additional information.

Year Ended December 31, 2017, as compared to 2016

Electric Utilities and Infrastructure's results were impacted by the Tax Act, growth from investments, lower operations and maintenance expense and higher weather-normal retail sales volumes, partially offset by less favorable weather, impairment charges due to regulatory settlements, increased depreciation and amortization, higher interest expense and higher property and other taxes. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The variance was driven primarily by:

- a \$292 million decrease in retail sales, net of fuel revenue, due to less favorable weather in the current year; and
- a \$235 million decrease in fuel revenues driven by lower retail sales volumes, lower fuel prices included in rates and changes in the generation mix.

Partially offset by:

- a \$364 million increase in rider revenues including increased revenues related to energy efficiency programs, Duke Energy Florida's nuclear asset securitization, Midwest transmission and distribution capital investments and Duke Energy Indiana's Edwardsport IGCC plant, as well as an increase in retail pricing due to base rate adjustments for Duke Energy Florida's Osprey acquisition and Hines Chillers and the Duke Energy Progress South Carolina rate case;
- an \$86 million increase in weather-normal sales volumes to customers; and
- a \$26 million increase in other revenues primarily due to favorable transmission revenues.

PART II

Operating Expenses. The variance was driven primarily by:

- a \$160 million increase in impairment charges primarily due to the write-off of remaining unrecovered Levy Nuclear Project costs in the current year at Duke Energy Florida and the disallowance from rate base of certain projects at the Mayo and Sutton plants in the current year at Duke Energy Progress related to the partial settlement in the North Carolina rate case;
- a \$113 million increase in depreciation and amortization expense primarily due to additional plant in service; and
- a \$58 million increase in property and other taxes primarily due to higher property taxes.

Partially offset by:

- a \$216 million decrease in fuel expense (including purchased power) primarily due to lower retail sales and changes in the generation mix; and
- a \$73 million decrease in operation, maintenance and other expense primarily due to lower plant outage, storm restoration and labor and benefits costs partially offset by higher operational costs that are recoverable in rates.

Interest Expense. The variance was due to higher debt outstanding in the current year and Duke Energy Florida's Crystal River Unit 3 regulatory asset debt return ending in June 2016 upon securitization.

Income Tax Expense. The variance was primarily due to a decrease in pretax income and the impact of the Tax Act. The effective tax rates for the years ended December 31, 2017, and 2016 were 29.7 percent and 35.5 percent, respectively. The decrease in the effective tax rate was primarily due to the impact of the Tax Act. See the Tax Act section above for additional information.

Matters Impacting Future Electric Utilities and Infrastructure Results

On May 18, 2016, the NCDEQ issued proposed risk classifications for all coal ash surface impoundments in North Carolina. All ash impoundments not previously designated as high priority by the Coal Ash Act were designated as intermediate risk. Certain impoundments classified as intermediate risk, however, were eligible for reassessment as low risk pursuant to legislation enacted on July 14, 2016. On November 14, 2018, NCDEQ issued final low-risk classifications for these impoundments, indicating that Duke Energy Carolinas and Duke Energy Progress have satisfied the permanent replacement water supply and certain dam improvement requirements set out in the Coal Ash Management Act. As the final closure plans and corrective action measures are developed and approved for each site, the closure work progresses and the closure method scope and remedial action methods are determined, the complexity of work and the amount of coal combustion material could be different than originally estimated and, therefore, could materially impact Electric Utilities and Infrastructure's results of operations, financial position and cash flows. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information.

Duke Energy is a party to multiple lawsuits and could be subject to fines and other penalties related to operations at certain North Carolina facilities with ash basins. In addition, the orders issued in the Duke Energy Carolinas and Duke Energy Progress North Carolinas rate cases supporting recovery of past coal ash remediation costs have been appealed by various parties. The outcome of these appeals, lawsuits and potential fines and penalties

could have an adverse impact on Electric Utilities and Infrastructure's results of operations, financial position, and cash flows. See Notes 4 and 5 to the Consolidated Financial Statements, "Regulatory Matters" and "Commitments and Contingencies," respectively, for additional information.

On June 22, 2018, Duke Energy Carolinas received an order from the NCUC, which denied the Grid Rider Stipulation and deferral treatment of grid improvement costs. Duke Energy Carolinas may petition for deferral of grid modernization costs outside of a general rate case proceeding if it can show financial hardship or a stipulation that includes greater consensus among intervening parties on costs being classified as grid modernization. While Duke Energy Progress did not request recovery of these costs in its most recent case with the NCUC, Duke Energy Progress may request recovery of certain grid modernization costs in future regulatory proceedings. Electric Utilities and Infrastructure's results of operations, financial position and cash flows could be adversely impacted if grid modernization costs are not ultimately approved for recovery and/or deferral treatment. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

During the last half of 2018, Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida's service territories were impacted by several named storms. Hurricane Florence, Hurricane Michael and Winter Storm Diego caused flooding, extensive damage and widespread power outages to the service territories of Duke Energy Carolinas and Duke Energy Progress. Duke Energy Florida's service territory was also impacted by Hurricane Michael, a Category 4 hurricane and the most powerful storm to hit the Florida Panhandle in recorded history. A significant portion of the incremental operation and maintenance expenses related to these storms have been deferred. On December 21, 2018, Duke Energy Carolinas and Duke Energy Progress filed with the NCUC petitions for approval to defer the incremental storm costs incurred to a regulatory asset for recovery in the next base rate case. Duke Energy Progress filed a similar request with the PSCSC on January 11, 2019, which also included a request for the continuation of prior deferrals requested for other storms, and on January 30, 2019, the PSCSC issued a directive approving the deferral request. Duke Energy Florida anticipates filing a petition in the first half of 2019 with the FPSC to recover incremental storm costs consistent with the provisions in its 2017 Settlement. An order from regulatory authorities disallowing the deferral and future recovery of storm restoration costs could have an adverse impact on Electric Utilities and Infrastructure's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Appeals of recently approved rate cases for Duke Energy Carolinas and Duke Energy Progress are pending at the North Carolina Supreme Court. The North Carolina Attorney General and various intervenors primarily dispute the allowance of recovery of coal ash costs from customers, which was approved by the NCUC. The outcome of these appeals could have an adverse impact to Electric Utilities and Infrastructure's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On February 6, 2018, the FPSC approved a stipulation that would apply tax savings resulting from the Tax Act toward storm costs effective January 2018 in lieu of implementing a storm surcharge. On May 31, 2018, Duke Energy Florida filed for recovery of the storm costs. Storm costs are currently expected to be fully recovered by approximately mid-2021. The commission has scheduled the hearing to begin on May 21, 2019. An order disallowing recovery of these costs could have an adverse impact on Electric Utilities and Infrastructure's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

PART II

Gas Utilities and Infrastructure

(in millions)	Years Ended December 31,				
	2018	2017	Variance 2018 vs. 2017	2016	Variance 2017 vs. 2016
Operating Revenues	\$ 1,881	\$ 1,836	\$ 45	\$ 901	\$ 935
Operating Expenses					
Cost of natural gas	697	632	65	265	367
Operation, maintenance and other	421	383	38	184	199
Depreciation and amortization	245	231	14	115	116
Property and other taxes	107	106	1	70	36
Total operating expenses	1,470	1,352	118	634	718
(Loss) Gains on Sales of Other Assets and Other, net	—	—	—	(1)	1
Operating Income	411	484	(73)	266	218
Other Income and Expenses, net	47	56	(9)	22	34
Interest Expense	106	105	1	46	59
Income Before Income Taxes	352	435	(83)	242	193
Income Tax Expense	78	116	(38)	90	26
Segment Income	\$ 274	\$ 319	\$ (45)	\$ 152	\$ 167
Piedmont LDC throughput (dekatherms) ^(a)	557,145,128	468,259,777	88,885,351	120,908,508	347,351,269
Duke Energy Midwest LDC throughput (MCF)	90,604,833	80,934,836	9,669,997	81,870,489	(935,653)

(a) Includes throughput subsequent to Duke Energy's acquisition of Piedmont on October 3, 2016.

Year Ended December 31, 2018, as compared to 2017

Gas Utilities and Infrastructure's results were primarily impacted by the OTTI recorded on the Constitution investment and higher operation, maintenance and other expenses, partially offset by favorable price adjustments, customer growth and other income. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The variance was driven primarily by:

- a \$76 million increase primarily due to higher natural gas costs passed through to customers as a result of higher volumes sold driven primarily by weather and higher natural gas prices; and
- a \$37 million increase primarily due to residential and commercial customer revenue, net of natural gas costs passed through to customers, due to customer growth and IMR rate adjustments and new power generation customers.

Partially offset by:

- a \$69 million decrease primarily due to revenues subject to refund to customers associated with the lower statutory corporate tax rate under the Tax Act.

Operating Expenses. The variance was driven primarily by:

- a \$65 million increase in natural gas costs primarily due to higher costs passed through to customers, as a result of a higher natural gas prices;

- a \$38 million increase in operations, maintenance, and other expense primarily due to increased shared services, costs to achieve merger expenses and a pension settlement charge at Piedmont in 2017; and
- a \$14 million increase in depreciation and amortization expense due to additional plant in service and higher amortization of software costs.

Other Income and Expenses, net. The variance was driven primarily by:

- a \$55 million impairment recorded for the investment in Constitution in 2018.

Partially offset by:

- a \$25 million increase in non-service components of employee benefit costs in 2018. For additional information on employee benefit costs, see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans"; and
- a \$20 million increase in equity earnings from pipeline investments.

Income Tax Expense. The variance was primarily due to the lower statutory federal corporate tax rate under the Tax Act, a decrease in pretax income and the impact of the Tax Act in the prior year. The ETRs for the years ended December 31, 2018, and 2017 were 22.2 percent and 26.7 percent, respectively. The decrease in the ETR was primarily due to the lower statutory federal corporate tax rate under the Tax Act partially offset by the impact of the Tax Act in the prior year. See the Tax Act section above for additional information.

PART II

Year Ended December 31, 2017, as compared to 2016

Gas Utilities and Infrastructure's higher results were primarily due to the inclusion of Piedmont's earnings in the current year as a result of Duke Energy's acquisition of Piedmont on October 3, 2016, as well as additional equity earnings from investments in the ACP and Sabal Trail pipelines.

Operating Revenues. The variance was driven primarily by:

- an \$884 million increase in operating revenues due to the inclusion of Piedmont's operating revenues beginning in October 2016; and
- a \$47 million increase in Piedmont's fourth quarter results due to colder weather, higher natural gas prices, IMR rate adjustments, customer growth and new power generation customers.

Operating Expenses. The variance was driven primarily by:

- a \$686 million increase in operating expenses due to the inclusion of Piedmont's operating expenses beginning in October 2016; and
- a \$34 million increase in Piedmont's fourth quarter results primarily due to higher natural gas costs passed through to customers due to the higher price per dekatherm of natural gas.

Other Income and Expenses, net. The increase was driven primarily by higher equity earnings from pipeline investments.

Interest Expense. The variance was primarily due to the inclusion of Piedmont's interest expense beginning in October 2016.

Income Tax Expense. The variance was primarily due to an increase in pretax income due to the inclusion of Piedmont's earnings beginning in October

2016, partially offset by prior period true ups. The effective tax rates for the years ended December 31, 2017, and 2016 were 26.7 percent and 37.2 percent, respectively. The decrease in the effective tax rate was primarily due to the prior period true ups and the impact of the Tax Act. See the Tax Act section above for additional information.

Matters Impacting Future Gas Utilities and Infrastructure Results

Gas Utilities and Infrastructure has a 47 percent ownership interest in ACP, which is building an approximately 600-mile interstate natural gas pipeline intended to transport diverse natural gas supplies into southeastern markets. Affected states (West Virginia, Virginia and North Carolina) have issued certain necessary permits; the project remains subject to other pending federal and state approvals, which will allow full construction activities to begin. In 2018, FERC issued a series of Notices to Proceed, which authorized the project to begin certain construction-related activities along the pipeline route. Project cost estimates are a range of \$7.0 billion to \$7.8 billion, excluding financing costs. ACP expects to achieve a late 2020 in-service date for key segments of the project, while it expects a remainder to extend into 2021. Project construction activities, schedule and final costs are subject to uncertainty due to abnormal weather, work delays (including delays due to judicial or regulatory action) and other conditions and risks that could result in potential higher project costs, a potential delay in the targeted in-service dates and potential impairment charges. ACP and Duke Energy will continue to consider their options with respect to the foregoing in light of their existing contractual and legal obligations. See Notes 4 and 12 to the Consolidated Financial Statements, "Regulatory Matters" and "Investments in Unconsolidated Affiliates," respectively, for additional information.

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

Commercial Renewables

(in millions)	Years Ended December 31,				
	2018	2017	Variance 2018 vs. 2017	2016	Variance 2017 vs. 2016
Operating Revenues	\$ 477	\$ 460	\$ 17	\$ 484	\$ (24)
Operating Expenses					
Operation, maintenance and other	304	267	37	337	(70)
Depreciation and amortization	155	155	—	130	25
Property and other taxes	25	33	(8)	25	8
Impairment charges	93	99	(6)	—	99
Total operating expenses	577	554	23	492	62
(Loss) Gains on Sales of Other Assets and Other, net	(1)	1	(2)	5	(4)
Operating Loss	(101)	(93)	(8)	(3)	(90)
Other Income and Expenses, net	23	(12)	35	(83)	71
Interest Expense	88	87	1	53	34
Loss Before Income Taxes	(166)	(192)	26	(139)	(53)
Income Tax Benefit	(147)	(628)	481	(160)	(468)
Less: Loss Attributable to Noncontrolling Interests	(28)	(5)	(23)	(2)	(3)
Segment Income	\$ 9	\$ 441	\$ (432)	\$ 23	\$ 418
Renewable plant production, GWh	8,522	8,260	262	7,446	814
Net proportional MW capacity in operation ^(a)	2,991	2,907	84	2,892	15

(a) Certain projects are included in tax-equity structures where investors have differing interests in the project's economic attributes. In 2018, 100 percent of the tax-equity project's capacity is included in the table above.

PART II

Year Ended December 31, 2018, as compared to 2017

Commercial Renewables' results were unfavorably impacted by the higher tax benefit in 2017 from the Tax Act. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The increase in revenues was primarily due to an increase in the number of EPC agreements at REC Solar, partially offset by unfavorable wind portfolio revenue.

Operating Expenses. The increase in operating expenses was primarily due to an increase in the number of EPC agreements at REC Solar, higher wind portfolio expenses and higher solar development costs, partially offset by lower property taxes due to non-recurring property tax payments made in the prior year and lower impairment charges.

Other Income and Expenses, net. The favorable variance in other income and expenses was primarily due to the bankruptcy court approved NAW and FES settlement agreement, which allowed retention of previously collected cash collateral under the PPAs, sale of the FES unsecured claim, impairment of certain cost investments in the prior year and lower equity losses in the current year.

Income Tax Benefit. The decrease in tax benefit in 2018 was primarily due to the one-time impact of the Tax Act in 2017 and lower statutory federal corporate tax rate under the Tax Act. See the Tax Act section above for additional information.

Loss Attributable to Noncontrolling Interests. The increase is primarily driven by the new tax-equity structures entered into during 2018.

Year Ended December 31, 2017, as compared to 2016

Commercial Renewables' higher earnings were primarily due to the Tax Act, partially offset by pretax impairment charges. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The decrease was primarily due to lower EPC revenues from REC Solar.

Other

Operating Expenses. The increase was primarily due to a \$99 million in pretax impairment charges in 2017 related to a wholly owned non-contracted wind project and other investments and higher expenses associated with new wind and solar projects, partially offset by lower operations and maintenance expense at REC Solar due to fewer projects under construction. See Notes 10 and 11 to the Consolidated Financial Statements, "Property, Plant and Equipment" and "Goodwill and Intangible Assets," respectively, for additional information.

Other Income and Expenses, net. The variance was primarily due to a \$71 million pretax impairment charge in 2016 related to certain equity method investments. For additional information, see Note 12 to the Consolidated Financial Statements, "Investments in Unconsolidated Affiliates."

Interest Expense. The variance was primarily due to new project financings and less capitalized interest due to fewer projects under construction.

Income Tax Benefit. The variance was primarily due to the impact of the Tax Act and higher PTCs, partially offset by lower ITCs. See the Tax Act section above for additional information on the Tax Act and the impact on the effective tax rate.

Matters Impacting Future Commercial Renewables Results

Persistently low market pricing for wind resources, primarily in the Electric Reliability Council of Texas West and PJM West markets and the future expiration of tax incentives including ITCs and PTCs could result in adverse impacts to the future results of operations, financial position and cash flows of Commercial Renewables.

On September 26, 2018, Duke Energy announced it is seeking a minority investor for the commercial renewables business. Duke Energy will continue to develop projects, grow its portfolio and manage its renewables assets. Duke Energy Renewable Services, an operations and maintenance business for third-party customers, and REC Solar are not included in the potential transaction. A sale of a minority interest is dependent on a number of factors and cannot be predicted at this time.

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

(in millions)	Years Ended December 31,				
	2018	2017	Variance 2018 vs. 2017	2016	Variance 2017 vs. 2016
Operating Revenues	\$ 89	\$ 138	\$ (49)	\$ 117	\$ 21
Operating Expenses					
Fuel used in electric generation and purchased power	—	58	(58)	51	7
Operation, maintenance and other	214	46	168	371	(325)
Depreciation and amortization	152	131	21	152	(21)
Property and other taxes	14	14	—	28	(14)
Impairment charges	—	7	(7)	2	5
Total operating expenses	380	256	124	604	(348)
(Losses) Gains on Sales of Other Assets and Other, net	(96)	21	(117)	23	(2)
Operating Loss	(387)	(97)	(290)	(464)	367
Other Income and Expenses, net	73	129	(56)	75	54
Interest Expense	657	574	83	693	(119)
Loss Before Income Taxes	(971)	(542)	(429)	(1,082)	540
Income Tax (Benefit) Expense	(282)	353	(635)	(446)	799
Less: Net Income Attributable to Noncontrolling Interests	5	10	(5)	9	1
Net Loss	\$ (694)	\$ (905)	\$ 211	\$ (645)	\$ (260)

PART II

Year Ended December 31, 2018, as compared to 2017

Other's lower net loss was driven by prior year impacts from the Tax Act, partially offset by severance charges, loss on the sale of the retired Beckjord station, higher interest expense and prior year proceeds resulting from the settlement of the shareholder litigation related to the Progress Energy merger. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The decrease was primarily due to prior year revenues related to Duke Energy Ohio's entitlement of capacity and energy from OVEC's power plants. For the year ended December 31, 2018, the revenues and related expenses for OVEC are reflected in the Electric Utilities and Infrastructure segment due to the PUCO Order that approved Duke Energy to recover or credit amounts through Rider PSR. These amounts are deemed immaterial. Therefore, no prior period amounts were restated. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters" for additional information.

Operating Expenses. The increase was primarily due to severance charges related to a corporate initiative partially offset by prior year fuel expense related to OVEC, which is reflected in the Electric Utilities and Infrastructure segment for year ended December 31, 2018. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters" for additional information.

(Losses) Gains on Sales of Other Assets and Other, net. The variance was driven by the loss on sale of the retired Beckjord station, a nonregulated facility retired during 2014, including the transfer of coal ash basins and other real property and indemnification from all potential future claims related to the property, whether arising under environmental laws or otherwise.

Other Income and Expenses, net. The variance was primarily due to insurance proceeds received in the prior year resulting from settlement of the shareholder litigation related to the Progress Energy merger and lower returns on investments that fund certain employee benefit obligations.

Interest Expense. The increase was primarily due to an increase in long-term debt as well as higher interest rates on short-term debt.

Income Tax (Benefit) Expense. The variance was primarily due to the prior year impact of the Tax Act and an increase in pretax loss. See the Tax Act section above for additional information on the Tax Act and the impact on the effective tax rate.

Year Ended December 31, 2017, as compared to 2016

Other's higher net loss was driven by the Tax Act, partially offset by prior year losses on forward-starting interest rate swaps and other costs related to the Piedmont acquisition, decreased severance charges, donations to the Duke Energy Foundation in 2016 and insurance proceeds resulting from settlement of the shareholder litigation related to the Progress Energy merger. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The increase was primarily due to higher OVEC revenues and prior year customer credits related to Piedmont merger commitments. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information.

Operating Expenses. The decrease was primarily due to lower transaction and integration costs associated with the Piedmont acquisition, prior year severance charges related to cost savings initiatives, donations to the Duke Energy Foundation in 2016 as well as prior year depreciation expense and other integration costs related to the Progress Energy merger. The Duke Energy Foundation is a nonprofit organization funded by Duke Energy shareholders that makes charitable contributions to selected nonprofits and government subdivisions.

Other Income and Expenses, net. The increase was primarily driven by insurance proceeds resulting from settlement of the shareholder litigation related to the Progress Energy merger, higher earnings from the equity method investment in NMC and increased returns on investments that fund certain employee benefit obligations.

Interest Expense. The decrease was primarily due to prior year losses on forward-starting interest rate swaps related to Piedmont pre-acquisition financing, partially offset by higher interest costs on \$3.75 billion of debt issued in August 2016 to fund the acquisition. For additional information see Notes 2, 6 and 14 to the Consolidated Financial Statements, "Acquisitions and Dispositions," "Debt and Credit Facilities" and "Derivatives and Hedging," respectively.

Income Tax Benefit. The variance was primarily due to the impact of the Tax Act and a decrease in pretax loss. See the Tax Act section above for additional information on the Tax Act and the impact on the effective tax rate.

Matters Impacting Future Other Results

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

INCOME (LOSS) FROM DISCONTINUED OPERATIONS, NET OF TAX

(in millions)	Years Ended December 31,				
	2018	2017	Variance 2018 vs. 2017	2016	Variance 2017 vs. 2016
Income (Loss) From Discontinued Operations, net of tax	\$ 19	\$ (6)	\$ 25	\$ (408)	\$ 402

Year Ended December 31, 2018, as compared to 2017

The variance was primarily driven by tax adjustments related to the International Disposal Groups. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information.

Year Ended December 31, 2017, as compared to 2016

The variance was primarily driven by the prior year loss on the disposal of Duke Energy's Latin American generation business and an impairment charge related to certain assets in Central America, partially offset by a tax benefit related to historic unremitted foreign earnings and immaterial out of period tax adjustments unrelated to the International Disposal Group. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information.

PART II

SUBSIDIARY REGISTRANTS

As a result of the Tax Act, the Subsidiary Registrants revalued their deferred tax assets and deferred tax liabilities, as of December 31, 2017, to account for the estimated future impact of lower corporate tax rates on these deferred tax amounts. During the year ended December 31, 2018, the Subsidiary Registrants recorded measurement period adjustments to the provisional estimate recorded as of December 31, 2017, in accordance with SAB 118. For the Subsidiary Registrants' regulated operations, where the net reduction in

the net accumulated deferred income tax liability is expected to be returned to customers in future rates, the remeasurement has been deferred as a regulatory liability. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters" for additional information on the Tax Act's impact to the regulatory asset and liability accounts. The change in each Subsidiary Registrant's effective tax rate for the year ended December 31, 2018, was primarily due to the impact of the Tax Act, unless noted below.

The following table shows the expense (benefit) recorded on the Subsidiary Registrant's Consolidated Statements of Operations and Comprehensive Income, and the effective tax rate for each Subsidiary Registrant.

(in millions)	Impacts of the Tax Act ^{(a)(b)} Years Ended December 31,		Effective Tax Rate Years Ended December 31,	
	2018	2017	2018	2017
Duke Energy Carolinas	\$ 1	\$ 15	22.1%	34.9%
Progress Energy	25	(246) ^(c)	17.4%	17.2%
Duke Energy Progress	19	(40) ^(d)	19.3%	29.0%
Duke Energy Florida	—	(226) ^(c)	15.4%	6.1%
Duke Energy Ohio	2	(23) ^(e)	19.6%	23.4%
Duke Energy Indiana	—	55 ^(f)	24.6%	46.0%
Piedmont	—	(2) ^{(d)(g)}	22.3%	30.8%

- (a) Except where noted below, amounts are included within Income Tax Expense From Continuing Operations or Income Tax Expense on the Consolidated Statements of Operations and Comprehensive Income.
(b) See Notes 4 and 23 to the Consolidated Financial Statements, "Regulatory Matters" and "Income Taxes," respectively, for information about the Tax Act's impact on Duke Energy's Consolidated Balance Sheets.
(c) 2017 amount primarily relates to the remeasurement of deferred tax liabilities that are excluded for ratemaking purposes related to abandoned assets and certain wholesale fixed rate contracts.
(d) 2017 amount primarily relates to the remeasurement of deferred tax liabilities of certain wholesale fixed rate contracts.
(e) 2017 amount primarily relates to the remeasurement of deferred tax assets that are excluded for ratemaking purposes related to a prior transfer of certain electric generating assets.
(f) 2017 amount primarily relates to the remeasurement of deferred tax liabilities that are excluded for ratemaking purposes related to impaired assets.
(g) 2017 amount includes a \$16 million expense recorded within Equity in earnings (losses) of unconsolidated affiliates on the Consolidated Statements of Operations and Comprehensive Income.

DUKE ENERGY CAROLINAS

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2018, 2017 and 2016.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Carolinas is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2018	2017	Variance
Operating Revenues	\$ 7,300	\$ 7,302	\$ (2)
Operating Expenses			
Fuel used in electric generation and purchased power	1,821	1,822	(1)
Operation, maintenance and other	2,130	2,021	109
Depreciation and amortization	1,201	1,090	111
Property and other taxes	295	281	14
Impairment charges	192	—	192
Total operating expenses	5,639	5,214	425
(Losses) Gains on Sales of Other Assets and Other, net	(1)	1	(2)
Operating Income	1,660	2,089	(429)
Other Income and Expenses, net	153	199	(46)
Interest Expense	439	422	17
Income Before Income Taxes	1,374	1,866	(492)
Income Tax Expense	303	652	(349)
Net Income	\$ 1,071	\$ 1,214	\$ (143)

PART II

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Carolinas. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2018	2017
Residential sales	11.7%	(4.8)%
General service sales	4.5%	(1.8)%
Industrial sales	(0.3)%	(0.8)%
Wholesale power sales	12.5%	6.3%
Joint dispatch sales	23.1%	18.2%
Total sales	5.7%	(1.4)%
Average number of customers	1.5%	1.5%

Year Ended December 31, 2018, as compared to 2017

Operating Revenues. The variance was driven primarily by:

- a \$263 million decrease in retail sales due to revenues subject to refund to customers associated with the lower statutory federal corporate tax rate under the Tax Act;
- a \$68 million decrease in retail rider revenues primarily related to the implementation of new base rates; and
- an \$8 million decrease in wholesale power revenues, net of sharing and fuel, primarily due to wholesale customer refunds in the current year related to a FERC order on a complaint filed by PMPA, partially offset by higher revenues related to recovery of coal ash costs.

Partially offset by:

- a \$169 million increase in retail sales, net of fuel revenues, due to favorable weather in the current year;
- an \$83 million increase in retail pricing from impacts of the North Carolina rate case;
- a \$49 million increase in other revenues primarily due to the recognition of previously deferred revenues associated with storm restoration costs in South Carolina and favorable transmission revenues; and
- a \$36 million increase in weather-normal retail sales volumes.

Operating Expenses. The variance was driven primarily by:

- a \$192 million increase in impairment charges primarily due to the impacts of the North Carolina rate order and charges related to coal ash costs in South Carolina;
- a \$111 million increase in depreciation and amortization expense primarily due to additional plant in service, new depreciation rates associated with the North Carolina rate case and higher amortization of deferred coal ash costs, partially offset by lower amortization of certain regulatory assets; and
- a \$109 million increase in operations, maintenance and other expense primarily due to severance charges.

Other Income and Expenses, net. The variance was primarily due to lower AFUDC equity related to the Lee Nuclear Project and W.S. Lee CC and a decrease in recognition of post in-service equity returns for projects that had been completed prior to being reflected in customer rates.

Interest Expense. The variance was primarily due to higher debt outstanding in the current year.

Income Tax Expense. The variance was primarily due to the lower statutory federal corporate tax rate under the Tax Act. The ETRs for the years ended December 31, 2018, and 2017 were 22.1 percent and 34.9 percent, respectively. The decrease in the ETR was primarily due to the lower statutory federal corporate tax rate under the Tax Act and the amortization of state excess deferred taxes.

Matters Impacting Future Results

On May 18, 2016, the NCDEQ issued proposed risk classifications for all coal ash surface impoundments in North Carolina. All ash impoundments not previously designated as high priority by the Coal Ash Act were designated as intermediate risk. Certain impoundments classified as intermediate risk, however, were eligible for reassessment as low-risk pursuant to legislation enacted on July 14, 2016. On November 14, 2018, NCDEQ issued final low risk classifications for these impoundments, indicating that Duke Energy Carolinas had satisfied the permanent replacement water supply and certain dam improvement requirements set out in the Coal Ash Management Act. As the final closure plans and corrective action measures are developed and approved for each site, the closure work progresses, and the closure method scope and remedial action methods are determined, the complexity of work and the amount of coal combustion material could be different than originally estimated and, therefore, could materially impact Duke Energy Carolinas' results of operations, financial position and cash flows. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information.

Duke Energy Carolinas is a party to multiple lawsuits and subject to fines and other penalties related to operations at certain North Carolina facilities with ash basins. In addition, the order issued in the Duke Energy Carolinas North Carolinas rate case supporting recovery of past coal ash remediation costs has been appealed by various parties. The outcome of these appeals, lawsuits, fines and penalties could have an adverse impact on Duke Energy Carolinas' results of operations, financial position and cash flows. See Notes 4 and 5 to the Consolidated Financial Statements, "Regulatory Matters" and "Commitments and Contingencies," respectively, for additional information.

On June 22, 2018, Duke Energy Carolinas received an order from the NCUC, which denied the Grid Rider Stipulation and deferral treatment of grid improvement costs. Duke Energy Carolinas may petition for deferral of grid modernization costs outside of a general rate case proceeding if it can show financial hardship or a stipulation that includes greater consensus among intervening parties on costs being classified as grid modernization. Duke Energy Carolinas' results of operations, financial position and cash flows could be adversely impacted if grid modernization costs are not ultimately approved for recovery and/or deferral treatment. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

PART II

During the last half of 2018, Duke Energy Carolinas' service territory was impacted by several named storms. Hurricane Florence, Hurricane Michael and Winter Storm Diego caused flooding, extensive damage and widespread power outages in the service territory. A significant portion of the incremental operation and maintenance expenses related to these storms have been deferred. On December 21, 2018, Duke Energy Carolinas filed with the NCUC a petition for approval to defer the incremental storm costs incurred to a regulatory asset for recovery in the next base rate case. An order from regulatory authorities disallowing the deferral and future recovery of storm restoration costs could have an adverse impact on Duke Energy Carolinas' results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Appeals of the recently approved rate case for Duke Energy Carolinas are pending at the North Carolina Supreme Court. The North Carolina Attorney General and various intervenors primarily dispute the allowance of recovery of coal ash costs from customers, which was approved by the NCUC. The outcome of these appeals could have an adverse impact to Duke Energy Carolina's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

PROGRESS ENERGY

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2018, 2017 and 2016.

Basis of Presentation

The results of operations and variance discussion for Progress Energy is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2018	2017	Variance
Operating Revenues	\$ 10,728	\$ 9,783	\$ 945
Operating Expenses			
Fuel used in electric generation and purchased power	3,976	3,417	559
Operation, maintenance and other	2,613	2,301	312
Depreciation and amortization	1,619	1,285	334
Property and other taxes	529	503	26
Impairment charges	87	156	(69)
Total operating expenses	8,824	7,662	1,162
Gains on Sales of Other Assets and Other, net	24	26	(2)
Operating Income	1,928	2,147	(219)
Other Income and Expenses, net	165	209	(44)
Interest Expense	842	824	18
Income Before Income Taxes	1,251	1,532	(281)
Income Tax Expense	218	264	(46)
Net Income	1,033	1,268	(235)
Less: Net Income Attributable to Noncontrolling Interests	6	10	(4)
Net Income Attributable to Parent	\$ 1,027	\$ 1,258	\$ (231)

Year Ended December 31, 2018, as compared to 2017

Operating Revenues. The variance was driven primarily by:

- a \$614 million increase in fuel and capacity revenues primarily due to an increase in fuel and capacity rates billed to retail customers and increased demand;
- a \$149 million increase in retail pricing due to the impacts of the Duke Energy Progress North Carolina and South Carolina rate cases and Duke Energy Florida base rate adjustments related to generation assets being placed into service;
- a \$108 million increase in retail sales due to favorable weather in the current year, net of lost revenue impacts associated with Hurricane Irma in 2017 and Hurricane Florence in 2018;

- a \$96 million increase in wholesale power revenues, net of fuel, primarily due to recovery of coal ash costs and higher peak demand at Duke Energy Progress;
- a \$34 million net increase in retail rider revenues in conjunction with the implementation of new base rates at Duke Energy Progress; and
- a \$47 million increase in weather-normal retail sales volumes.

Partially offset by:

- a \$119 million decrease in retail sales due to revenues subject to refund to customers associated with the lower statutory federal corporate tax rate under the Tax Act at Duke Energy Progress.

PART II

Operating Expenses. The variance was driven primarily by:

- a \$559 million increase in fuel used in electric generation and purchased power primarily due to higher amortization of deferred fuel and capacity expenses, increased demand and changes in generation mix;
- a \$334 million increase in depreciation and amortization expense primarily due to higher amortization of deferred coal ash costs and new depreciation rates associated with the North Carolina rate case at Duke Energy Progress, and accelerated depreciation of Crystal River Units 4 and 5 at Duke Energy Florida;
- a \$312 million increase in operation, maintenance and other expense primarily due to higher costs related to storms, vegetation management costs and severance charges; and
- a \$26 million increase in property and other taxes primarily due to higher revenue related taxes at Duke Energy Florida.

Partially offset by:

- a \$69 million decrease in impairment charges primarily due to the write-off of remaining unrecovered Levy Nuclear Project costs in the current year at Duke Energy Progress and Duke Energy Florida. For additional information on employee benefit costs, see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans."

Other Income and Expenses, net. The variance was primarily due to lower income from non-service components of employee benefit costs in the current year at Duke Energy Progress and Duke Energy Florida. For additional information on employee benefit costs, see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans."

Interest Expense. The variance was primarily due to new debt issuances at Duke Energy Progress.

Income Tax Expense. The variance was primarily due to the lower statutory federal corporate tax rate under the Tax Act partially offset by the favorable impact of the Tax Act in the prior year. The effective tax rate for the years ended December 31, 2018, and 2017 were 17.4 percent and 17.2 percent, respectively. The change in the effective tax rate was primarily due to the favorable impact of the Tax Act in the prior year mostly offset by the lower statutory federal corporate tax rate under the Tax Act and the amortization of federal and state excess deferred taxes in the current year.

Matters Impacting Future Results

On May 18, 2016, the NCDEQ issued proposed risk classifications for all coal ash surface impoundments in North Carolina. All ash impoundments not previously designated as high priority by the Coal Ash Act were designated as intermediate risk. Certain impoundments classified as intermediate risk, however, were eligible for reassessment as low-risk pursuant to legislation enacted on July 14, 2016. On November 14, 2018, NCDEQ issued final low risk classifications for these impoundments, indicating that Progress Energy had satisfied the permanent replacement water supply and certain dam improvement requirements set out in the Coal Ash Management Act. As the final closure plans and corrective action measures are developed and approved for each site, the closure work progresses, and the closure method scope and remedial action methods are determined, the complexity of work and the amount of coal combustion material could be different than originally estimated and, therefore, could materially impact Progress Energy's results of operations, financial position and cash flows. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information.

Duke Energy Progress is a party to multiple lawsuits and subject to fines and other penalties related to operations at certain North Carolina facilities with ash basins. As noted above, the order issued in the Duke Energy Progress North Carolinas rate case supporting recovery of past coal ash remediation costs has been appealed by various parties. The outcome of these appeals, lawsuits, fines and penalties could have an adverse impact on Progress Energy's results of operations, financial position and cash flows. See Notes 4 and 5 to the Consolidated Financial Statements, "Regulatory Matters" and "Commitments and Contingencies," respectively, for additional information.

Duke Energy Carolinas received an order from the NCUC, which denied the Grid Rider Stipulation and deferral treatment of grid improvement costs. The NCUC did allow Duke Energy Carolinas to petition for deferral of grid modernization costs outside of a general rate case proceeding if it can show financial hardship or a stipulation that includes greater consensus among intervening parties on costs being classified as grid modernization. While Duke Energy Progress did not request recovery of these costs in its most recent case with the NCUC, Duke Energy Progress may request recovery of certain grid modernization costs in future regulatory proceedings. If the NCUC were to rule similarly, Progress Energy's results of operations, financial position and cash flows could be adversely impacted if grid modernization costs are not ultimately approved for recovery and/or deferral treatment. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

During the last half of 2018, Duke Energy Progress and Duke Energy Florida's service territories were impacted by several named storms. Hurricane Florence, Hurricane Michael and Winter Storm Diego caused flooding, extensive damage and widespread power outages to the service territory of Duke Energy Progress. Duke Energy Florida's service territory was also impacted by Hurricane Michael, a Category 4 hurricane and the most powerful storm to hit the Florida Panhandle in recorded history. A significant portion of the incremental operation and maintenance expenses related to these storms have been deferred. On December 21, 2018, Duke Energy Progress filed with the NCUC a petition for approval to defer the incremental storm costs incurred to a regulatory asset for recovery in the next base rate case. Duke Energy Progress filed a similar request with the PSCSC on January 11, 2019, which also included a request for the continuation of prior deferrals requested for other storms, and on January 30, 2019, the PSCSC issued a directive approving the deferral request. Duke Energy Florida anticipates filing a petition in the first half of 2019 with the FPSC to recover incremental storm costs consistent with the provisions in its 2017 Settlement. An order from regulatory authorities disallowing the deferral and future recovery of storm restoration costs could have an adverse impact on Progress Energy's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Appeals of the recently approved rate case for Duke Energy Progress are pending at the North Carolina Supreme Court. The North Carolina Attorney General and various intervenors primarily dispute the allowance of recovery of coal ash costs from customers, which was approved by the NCUC. The outcome of these appeals could have an adverse impact to Progress Energy's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On February 6, 2018, the FPSC approved a stipulation that would apply tax savings resulting from the Tax Act toward storm costs effective January 2018 in lieu of implementing a storm surcharge. On May 31, 2018, Duke Energy Florida filed for recovery of the storm costs. Storm costs are currently expected to be fully recovered by approximately mid-2021. The commission has scheduled the hearing to begin on May 21, 2019. An order disallowing recovery of these costs could have an adverse impact on Progress Energy's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

PART II

DUKE ENERGY PROGRESS

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2018, 2017 and 2016.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Progress is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2018	2017	Variance
Operating Revenues	\$ 5,699	\$ 5,129	\$ 570
Operating Expenses			
Fuel used in electric generation and purchased power	1,892	1,609	283
Operation, maintenance and other	1,578	1,439	139
Depreciation and amortization	991	725	266
Property and other taxes	155	156	(1)
Impairment charges	33	19	14
Total operating expenses	4,649	3,948	701
Gains on Sales of Other Assets and Other, net	9	4	5
Operating Income	1,059	1,185	(126)
Other Income and Expenses, net	87	115	(28)
Interest Expense	319	293	26
Income Before Income Taxes	827	1,007	(180)
Income Tax Expense	160	292	(132)
Net Income	\$ 667	\$ 715	\$ (48)

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Progress. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2018	2017
Residential sales	9.9%	(2.6)%
General service sales	2.3%	(1.3)%
Industrial sales	0.8%	1.1%
Wholesale power sales	4.6%	(2.9)%
Joint dispatch sales	2.1%	(17.1)%
Total sales	3.8%	(3.2)%
Average number of customers	1.5%	1.4%

Year Ended December 31, 2018, as compared to 2017

Operating Revenues. The variance was driven primarily by:

- a \$324 million increase in fuel revenues driven by higher retail sales and changes in generation mix;
- a \$125 million increase in retail pricing due to the impacts from the North Carolina and South Carolina rate cases;
- a \$96 million increase in wholesale power revenues, net of fuel, primarily due to recovery of coal ash costs and higher peak demand;
- a \$34 million net increase in retail rider revenues in conjunction with the implementation of new base rates;
- a \$61 million increase in retail sales due to favorable weather in the current year, net of the impact of lost revenues due to Hurricane Florence; and
- a \$35 million increase in weather-normal retail sales volumes.

Partially offset by:

- a \$119 million decrease in retail sales due to revenues subject to refund to customers associated with the lower statutory federal corporate tax rate under the Tax Act.

Operating Expenses. The variance was driven primarily by:

- a \$283 million increase in fuel used in electric generation and purchased power primarily due to higher retail sales and changes in generation mix;
- a \$266 million increase in depreciation and amortization expense primarily due to higher amortization of deferred coal ash costs and new depreciation rates associated with the North Carolina rate case;
- a \$139 million increase in operation, maintenance and other expense primarily due to higher storm costs, impacts associated with the North Carolina rate case and severance charges; and
- a \$14 million increase in impairment charges associated with the North Carolina rate case.

PART II

Other Income and Expenses, net. The variance was primarily driven by lower income from non-service components of employment benefit costs. For additional information on employee benefit costs, see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans."

Interest Expense. The variance was primarily driven by new debt issuances.

Income Tax Expense. The variance was primarily due to the lower statutory federal corporate tax rate under the Tax Act partially offset by the favorable impact of the Tax Act in the prior year. The effective tax rates for the years ended December 31, 2018, and 2017 were 19.3 percent and 29.0 percent, respectively. The decrease in the effective tax rate was primarily due to the lower statutory federal corporate tax rate under the Tax Act and the amortization of state excess deferred taxes partially offset by the impact of the Tax Act in the prior year.

Matters Impacting Future Results

On May 18, 2016, the NCDEQ issued proposed risk classifications for all coal ash surface impoundments in North Carolina. All ash impoundments not previously designated as high priority by the Coal Ash Act were designated as intermediate risk. Certain impoundments classified as intermediate risk, however, were eligible for reassessment as low-risk pursuant to legislation enacted on July 14, 2016. On November 14, 2018, NCDEQ issued final low risk classifications for these impoundments, indicating that Duke Energy Progress had satisfied the permanent replacement water supply and certain dam improvement requirements set out in the Coal Ash Management Act. As the final closure plans and corrective action measures are developed and approved for each site, the closure work progresses, and the closure method scope and remedial action methods are determined, the complexity of work and the amount of coal combustion material could be different than originally estimated and, therefore, could materially impact Duke Energy Progress' results of operations, financial position and cash flows. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information.

Duke Energy Progress is a party to multiple lawsuits and subject to fines and other penalties related to operations at certain North Carolina facilities with ash basins. As noted above, the order issued in the Duke Energy Progress North Carolinas rate case supporting recovery of past coal ash remediation costs has been appealed by various parties. The outcome of these appeals, lawsuits, fines and penalties could have an adverse impact on Duke Energy Progress' results of operations, financial position and cash flows. See Notes 4 and 5 to the

Consolidated Financial Statements, "Regulatory Matters" and "Commitments and Contingencies," respectively, for additional information.

Duke Energy Carolinas received an order from the NCUC, which denied the Grid Rider Stipulation and deferral treatment of grid improvement costs. The NCUC did allow Duke Energy Carolinas to petition for deferral of grid modernization costs outside of a general rate case proceeding if it can show financial hardship or a stipulation that includes greater consensus among intervening parties on costs being classified as grid modernization. While Duke Energy Progress did not request recovery of these costs in its most recent case with the NCUC, Duke Energy Progress may request recovery of certain grid modernization costs in future regulatory proceedings. If the NCUC were to rule similarly, Duke Energy Progress' results of operations, financial position and cash flows could be adversely impacted if grid modernization costs are not ultimately approved for recovery and/or deferral treatment. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

During the last half of 2018, Duke Energy Progress' service territory was impacted by several named storms. Hurricane Florence, Hurricane Michael and Winter Storm Diego caused flooding, extensive damage and widespread power outages in the service territory. A significant portion of the incremental operation and maintenance expenses related to these storms have been deferred. On December 21, 2018, Duke Energy Progress filed with the NCUC a petition for approval to defer the incremental storm costs incurred to a regulatory asset for recovery in the next base rate case. Duke Energy Progress filed a similar request with the PSCSC on January 11, 2019, which also included a request for the continuation of prior deferrals requested for other storms, and on January 30, 2019, the PSCSC issued a directive approving the deferral request. An order from regulatory authorities disallowing the deferral and future recovery of storm restoration costs could have an adverse impact on Duke Energy Progress' results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Appeals of the recently approved rate case for Duke Energy Progress are pending at the North Carolina Supreme Court. The North Carolina Attorney General and various intervenors primarily dispute the allowance of recovery of coal ash costs from customers, which was approved by the NCUC. The outcome of these appeals could have an adverse impact to Duke Energy Progress' results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

DUKE ENERGY FLORIDA

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2018, 2017 and 2016.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Florida is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

PART II

Results of Operations

(in millions)	Years Ended December 31,		
	2018	2017	Variance
Operating Revenues	\$ 5,021	\$ 4,646	\$ 375
Operating Expenses			
Fuel used in electric generation and purchased power	2,085	1,808	277
Operation, maintenance and other	1,025	853	172
Depreciation and amortization	628	560	68
Property and other taxes	374	347	27
Impairment charges	54	138	(84)
Total operating expenses	4,166	3,706	460
Gains on Sales of Other Assets and Other, net	1	1	—
Operating Income	856	941	(85)
Other Income and Expenses, net	86	96	(10)
Interest Expense	287	279	8
Income Before Income Taxes	655	758	(103)
Income Tax Expense	101	46	55
Net Income	\$ 554	\$ 712	\$ (158)

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Florida. The below percentages for retail customer classes represent billed sales only. Wholesale power sales include both billed and unbilled sales. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2018	2017
Residential sales	4.3%	(2.3)%
General service sales	1.9%	(1.3)%
Industrial sales	(0.4)%	(2.4)%
Wholesale power sales	5.2%	20.1%
Total sales	2.4%	0.5%
Average number of customers	1.5%	1.6%

Year Ended December 31, 2018, as compared to 2017

Operating Revenues. The variance was driven primarily by:

- a \$290 million increase in fuel and capacity revenues primarily due to an increase in fuel and capacity rates billed to retail customers and increased demand;
- a \$47 million increase in retail sales, net of fuel revenues, due to favorable weather in the current year and impacts of lost revenue resulting from Hurricane Irma in the prior year;
- a \$24 million increase in retail pricing due to base rate adjustments related to generation assets being placed into service; and
- a \$12 million increase in weather-normal retail sales volumes.

Operating Expenses. The variance was driven primarily by:

- a \$277 million increase in fuel used in electric generation and purchased power primarily due to higher amortization of deferred fuel and capacity expenses and increased purchased power and demand;
- a \$172 million increase in operation, maintenance and other expense primarily due to higher storm cost amortization, vegetation management costs and severance charges, partially offset by lower storm restoration costs in the current year;

- a \$68 million increase in depreciation and amortization expense primarily due to accelerated depreciation of Crystal River Units 4 and 5 and additional plant in service; and
- a \$27 million increase in property and other taxes primarily due to higher revenue related taxes.

Partially offset by:

- an \$84 million decrease in impairment charges primarily due to the write-off of remaining unrecovered Levy Nuclear Project costs in the prior year, offset by the current year impairment of the Citrus County CC.

Other Income and Expenses, net. The variance was driven primarily by lower income from non-service components of employee benefit costs in the current year. For additional information on employee benefit costs, see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans."

Income Tax Expense. The variance was primarily due to the favorable impact of the Tax Act in the prior year partially offset by the lower statutory federal corporate tax rate under the Tax Act in the current year. The effective tax rates for the years ended December 31, 2018, and 2017 were 15.4 percent and 6.1 percent, respectively. The increase in the effective tax rate was primarily due to the favorable impact of the Tax Act in the prior year partially offset by the lower statutory federal corporate tax rate under the Tax Act and the amortization of federal excess deferred taxes in the current year.

PART II

Matters Impacting Future Results

On October 10, 2018, Hurricane Michael made landfall on Florida's Panhandle as a Category 4 hurricane, the most powerful storm to hit the Florida Panhandle in recorded history. The storm caused significant damage within the service territory of Duke Energy Florida, particularly from Panama City Beach to Mexico Beach. Duke Energy Florida has not completed the final accumulation of total estimated storm restoration costs incurred. Given the magnitude of the storm, Duke Energy Florida anticipates filing a petition in the first half of 2019 with the FPSC to recover incremental storm costs consistent with the provisions in its 2017 Settlement. An order from regulatory authorities disallowing the future recovery of storm restoration costs could have an adverse impact on Duke Energy Florida's financial position, results of operations and cash flows.

See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On February 6, 2018, the FPSC approved a stipulation that would apply tax savings resulting from the Tax Act toward storm costs effective January 2018 in lieu of implementing a storm surcharge. On May 31, 2018, Duke Energy Florida filed for recovery of the storm costs. Storm costs are currently expected to be fully recovered by approximately mid-2021. The commission has scheduled the hearing to begin on May 21, 2019. An order disallowing recovery of these costs could have an adverse impact on Duke Energy Florida's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

DUKE ENERGY OHIO

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2018, 2017 and 2016.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Ohio is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2018	2017	Variance
Operating Revenues			
Regulated electric	\$ 1,450	\$ 1,373	\$ 77
Regulated natural gas	506	508	(2)
Nonregulated electric and other	1	42	(41)
Total operating revenues	1,957	1,923	34
Operating Expenses			
Fuel used in electric generation and purchased power – regulated	412	369	43
Fuel used in electric generation and purchased power – nonregulated	—	58	(58)
Cost of natural gas	113	107	6
Operation, maintenance and other	480	530	(50)
Depreciation and amortization	268	261	7
Property and other taxes	290	278	12
Impairment charges	—	1	(1)
Total operating expenses	1,563	1,604	(41)
(Losses) Gains on Sales of Other Assets and Other, net	(106)	1	(107)
Operating Income	288	320	(32)
Other Income and Expenses, net	23	23	—
Interest Expense	92	91	1
Income from Continuing Operations Before Income Taxes	219	252	(33)
Income Tax Expense from Continuing Operations	43	59	(16)
Income from Continuing Operations	176	193	(17)
(Loss) Income from Discontinued Operations, net of tax	—	(1)	1
Net Income	\$ 176	\$ 192	\$ (16)

PART II

The following table shows the percent changes in GWh sales of electricity, dekatherms of natural gas delivered and average number of electric and natural gas customers for Duke Energy Ohio. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	Electric		Natural Gas	
	2018	2017	2018	2017
Residential sales	12.2%	(4.0)%	18.0%	(2.6)%
General service sales	3.3%	(3.1)%	15.4%	0.7%
Industrial sales	1.0%	(2.7)%	8.1%	(2.8)%
Wholesale electric power sales	(46.6)%	65.7%	n/a	n/a
Other natural gas sales	n/a	n/a	0.7%	(0.3)%
Total sales	2.8%	(2.1)%	11.9%	(1.1)%
Average number of customers	0.8%	0.8%	0.9%	0.7%

Year Ended December 31, 2018, as compared to 2017

Operating Revenues. In 2018, the revenues and related expenses for OVEC are reflected in regulated electric due to the PUCO Order that approved Duke Energy Ohio to recover or credit amounts, through Rider PSR, that result from wholesale market transactions relating to Duke Energy Ohio's entitlement to capacity and energy from OVEC's power plants. In 2017, the revenues and related expenses for OVEC are reflected in nonregulated electric. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters" for additional information.

The variance was driven primarily by:

- a \$44 million increase in electric and natural gas retail sales, net of fuel revenues, due to favorable weather in the current year;
- a \$17 million increase in rider revenue primarily related to capital investment riders;
- a \$16 million increase in financial transmission rights revenues;
- a \$7 million increase in point-to-point transmission revenues; and
- a \$6 million increase in fuel revenues due to higher natural gas costs.

Partially offset by:

- a \$48 million decrease in regulated revenues due to revenues subject to refund to customers associated with the lower statutory corporate tax rate under the Tax Act; and
- a \$7 million decrease in bulk power marketing sales.

Operating Expenses. The variance was driven by:

- a \$50 million decrease in operations, maintenance and other expense primarily due to the FERC approved settlement refund of certain transmission costs previously billed by PJM; and
- a \$15 million decrease in fuel used in electric generation and purchased power related to the deferral of OVEC purchased power, which is reflected in regulated electric in 2018 and nonregulated electric in 2017, as noted above in the Operating Revenues section.

Partially offset by:

- a \$12 million increase in property and other taxes primarily due to higher property taxes and kilowatt tax;
- a \$7 million increase in depreciation and amortization expense primarily due to additional plant in service and increased amortization of regulatory assets; and
- a \$6 million increase in cost of natural gas primarily due to an increase in natural gas sales volumes.

(Losses) Gains on Sales of Other Assets and Other, net. The decrease was driven by the loss on the sale of Beckjord, a nonregulated facility retired during 2014, including the transfer of coal ash basins and other real property and indemnification from any and all potential future claims related to the property, whether arising under environmental laws or otherwise.

Income Tax Expense. The variance was primarily due to the lower statutory federal corporate tax rate under the Tax Act and a decrease in pretax income. The effective tax rates for the years ended December 31, 2018, and 2017 were 19.6 percent and 23.4 percent, respectively. The decrease in the effective tax rate was primarily due to the lower statutory federal corporate tax rate under the Tax Act partially offset by the impact of the Tax Act in the prior year.

Matters Impacting Future Results

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

DUKE ENERGY INDIANA

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2018, 2017 and 2016.

Basis of Presentation

The results of operations and variance discussion for Duke Energy Indiana is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

PART II

Results of Operations

(in millions)	Years Ended December 31,		
	2018	2017	Variance
Operating Revenues	\$ 3,059	\$ 3,047	\$ 12
Operating Expenses			
Fuel used in electric generation and purchased power	1,000	966	34
Operation, maintenance and other	788	743	45
Depreciation and amortization	520	458	62
Property and other taxes	78	76	2
Impairment charges	30	18	12
Total operating expenses	2,416	2,261	155
Operating Income	643	786	(143)
Other Income and Expenses, net	45	47	(2)
Interest Expense	167	178	(11)
Income Before Income Taxes	521	655	(134)
Income Tax Expense	128	301	(173)
Net Income	\$ 393	\$ 354	\$ 39

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Indiana. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities and to public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2018	2017
Residential sales	12.5%	(3.8)%
General service sales	2.8%	(2.4)%
Industrial sales	0.5%	0.3%
Wholesale power sales	(0.9)%	(10.5)%
Total sales	3.3%	(3.6)%
Average number of customers	1.3%	0.8%

Year Ended December 31, 2018, as compared to 2017

Operating Revenues. The variance was driven primarily by:

- a \$65 million increase in rate rider revenues primarily related to the Edwardsport IGCC plant and the TDSIC rider;
- a \$50 million increase in fuel and other revenues primarily due to higher base fuel, non-native fuel and Midwest Independent System Operator rider revenues;
- a \$13 million increase in retail sales, net of fuel revenues, due to favorable weather in the current year; and
- a \$13 million increase in weather-normal retail sales volumes.

Partially offset by:

- a \$105 million decrease due to revenues subject to refund to customers associated with the lower statutory federal corporate tax rate under the Tax Act; and
- a \$27 million decrease in wholesale power revenues, net of fuel, primarily due to contracts that expired in the prior year.

Operating Expenses. The variance was driven primarily by:

- a \$62 million increase in depreciation and amortization expense primarily due to additional plant in service and the deferral of certain asset retirement obligations in the prior year;

- a \$45 million increase in operation, maintenance and other expense primarily due to amortization of previously deferred expenses, and higher transmission, storm and customer related costs;
- a \$34 million increase in fuel used in electric generation and purchased power primarily due to higher natural gas costs; and
- a \$12 million increase in impairment charges primarily due to the reduction of a regulatory asset pertaining to the Edwardsport IGCC settlement agreement in the current year, partially offset by the impairment of certain metering equipment in the prior year.

Interest Expense. The variance was primarily due to lower post in-service carrying costs due to three coal ash projects placed in service in December 2017, partially offset by higher intercompany money pool interest expense, higher AFUDC debt balances and higher floating rate debt interest expense.

Income Tax Expense. The variance was primarily due to the lower statutory federal corporate tax rate under the Tax Act. The effective tax rates for the years ended December 31, 2018, and 2017 were 24.6 percent and 46.0 percent, respectively. The decrease in the effective tax rate was primarily due to the lower statutory federal corporate tax rate under the Tax Act and by the impact of the Tax Act in the prior year.

PART II

Matters Impacting Future Results

On April 17, 2015, the EPA published in the Federal Register a rule to regulate the disposal of CCR from electric utilities as solid waste. Duke Energy Indiana has interpreted the rule to identify the coal ash basin sites impacted and has assessed the amounts of coal ash subject to the rule and a method of compliance. Duke Energy Indiana's interpretation of the requirements of the CCR rule is subject to potential legal challenges and further regulatory approvals, which could result in additional ash basin closure requirements, higher costs of compliance and greater AROs. Additionally, Duke Energy Indiana has retired

facilities that are not subject to the CCR rule. Duke Energy Indiana may incur costs at these facilities to comply with environmental regulations or to mitigate risks associated with on-site storage of coal ash. An order from regulatory authorities disallowing recovery of costs related to closure of ash basins could have an adverse impact on Duke Energy Indiana's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

PIEDMONT

Introduction

Management's Discussion and Analysis should be read in conjunction with the accompanying Consolidated Financial Statements and Notes for the years ended December 31, 2018, and 2017, Piedmont's Annual Report on Form 10-K for the year ended October 31, 2016, and the Form 10-QT as of December 31, 2016, for the transition period from November 1, 2016, to December 31, 2016. The unaudited results of operations for the year ended December 31, 2016, were derived from data previously reported in the reports noted above.

Basis of Presentation

The results of operations and variance discussion for Piedmont is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

Results of Operations

(in millions)	Years Ended December 31,		
	2018	2017	Variance
Operating Revenues			
Regulated natural gas	\$ 1,365	\$ 1,319	\$ 46
Nonregulated natural gas and other	10	9	1
Total operating revenues	1,375	1,328	47
Operating Expenses			
Cost of natural gas	584	524	60
Operation, maintenance and other	357	304	53
Depreciation and amortization	159	148	11
Property and other taxes	49	48	1
Impairment charges	—	7	(7)
Total operating expenses	1,149	1,031	118
Operating Income	226	297	(71)
Equity in earnings (losses) of unconsolidated affiliates	7	(6)	13
Other income and expenses, net	14	(11)	25
Total other income and expenses	21	(17)	38
Interest Expense	81	79	2
Income Before Income Taxes	166	201	(35)
Income Tax Expense	37	62	(25)
Net Income	\$ 129	\$ 139	\$ (10)

The following table shows the percent changes in dekatherms delivered and average number of customers. The percentages for all throughput deliveries represent billed and unbilled sales. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2018	2017
Residential deliveries	23.6%	(8.1)%
Commercial deliveries	14.9%	(4.3)%
Industrial deliveries	4.2%	(2.2)%
Power generation deliveries	23.6%	(5.8)%
For resale	17.0%	(20.9)%
Total throughput deliveries	19.0%	(5.4)%
Secondary market volumes	(8.1)%	(4.2)%
Average number of customers	1.6%	1.7%

PART II

Piedmont's throughput was 557,145,128 dekatherms and 468,259,777 dekatherms for the years ended December 31, 2018, and 2017, respectively. Due to the margin decoupling mechanism in North Carolina and WNA mechanisms in South Carolina and Tennessee, changes in throughput deliveries do not have a material impact on Piedmont's revenues or earnings. The margin decoupling mechanism adjusts for variations in residential and commercial use per customer, including those due to weather and conservation. The WNA mechanisms mostly offset the impact of weather on bills rendered, but do not ensure full recovery of approved margin during periods when winter weather is significantly warmer or colder than normal.

Year Ended December 31, 2018, as compared to 2017

Operating Revenues. The variance was driven primarily by:

- a \$60 million increase primarily due to higher natural gas costs passed through to customers due to higher volumes sold and higher natural gas prices; and
- a \$37 million increase primarily due to residential and commercial customer revenue, net of natural gas costs passed through to customers, due to customer growth and IMR rate adjustments and new power generation customers.

Partially offset by:

- a \$51 million decrease primarily due to revenues subject to refund to customers associated with the lower statutory corporate tax rate under the Tax Act.

Operating Expenses. The variance was driven by:

- a \$60 million increase in cost of natural gas primarily due to higher volumes sold and higher natural gas costs passed through to customers due to the higher price per dekatherm of natural gas;
- a \$53 million increase in operations, maintenance and other expense primarily due to increased shared services, cost to achieve merger expenses and pension settlement charge; and
- an \$11 million increase in depreciation and amortization expense due to additional plant in service.

Partially offset by:

- a \$7 million decrease in impairment charges due to an impairment of software recorded in the prior year.

Other Income and Expenses. The variance was driven by:

- a \$25 million increase in other income and expenses, net primarily due to higher income from non-service components of employee benefit costs in the current year. For additional information on employee benefit costs, see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans"; and
- a \$13 million increase in equity earnings of unconsolidated affiliates from pipeline investments primarily due to favorable earnings partially offset by unfavorable impacts of the Tax Act in the prior year.

Income Tax Expense. The variance was primarily due to the lower statutory federal corporate tax rate under the Tax Act. The effective tax rates for the years ended December 31, 2018, and 2017 were 22.3 percent and 30.8 percent, respectively. The decrease in the effective tax rate was primarily due to the lower statutory federal corporate tax rate under the Tax Act.

Matters Impacting Future Results

Within this Item 7, see the Tax Act section above as well as Liquidity and Capital Resources below for discussion of risks associated with the Tax Act.

CRITICAL ACCOUNTING POLICIES AND ESTIMATES

Preparation of financial statements requires the application of accounting policies, judgments, assumptions and estimates that can significantly affect the reported results of operations, cash flows or the amounts of assets and liabilities recognized in the financial statements. Judgments made include the likelihood of success of particular projects, possible legal and regulatory challenges, earnings assumptions on pension and other benefit fund investments and anticipated recovery of costs, especially through regulated operations.

Management discusses these policies, estimates and assumptions with senior members of management on a regular basis and provides periodic updates on management decisions to the Audit Committee. Management believes the areas described below require significant judgment in the application of accounting policy or in making estimates and assumptions that are inherently uncertain and that may change in subsequent periods.

For further information, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

Regulated Operations Accounting

Substantially all of Duke Energy's regulated operations meet the criteria for application of regulated operations accounting treatment. As a result, Duke Energy is required to record assets and liabilities that would not be recorded for nonregulated entities. Regulatory assets generally represent incurred costs that have been deferred because such costs are probable of future recovery in customer rates. Regulatory liabilities are recorded when it is probable that a regulator will require Duke Energy to make refunds to customers or reduce rates to customers for previous collections or deferred revenue for costs that have yet to be incurred.

Management continually assesses whether recorded regulatory assets are probable of future recovery by considering factors such as:

- applicable regulatory environment changes;
- historical regulatory treatment for similar costs in Duke Energy's jurisdictions;
- litigation of rate orders;
- recent rate orders to other regulated entities;
- levels of actual return on equity compared to approved rates of return on equity; and
- the status of any pending or potential deregulation legislation.

If future recovery of costs ceases to be probable, asset write-offs would be recognized in operating income. Additionally, regulatory agencies can provide flexibility in the manner and timing of the depreciation of property, plant and equipment, recognition of asset retirement costs and amortization of regulatory assets, or may disallow recovery of all or a portion of certain assets.

As required by regulated operations accounting rules, significant judgment can be required to determine if an otherwise recognizable incurred cost qualifies to be deferred for future recovery as a regulatory asset. Significant judgment can also be required to determine if revenues previously recognized are for entity specific costs that are no longer expected to be incurred or have not yet been incurred and are therefore a regulatory liability.

PART II

Goodwill Impairment Assessments

Duke Energy performed its annual goodwill impairment tests for all reporting units as of August 31, 2018, and all of the reporting units' estimated fair value of equity substantially exceeded the carrying value of equity, except for the Commercial Renewables reporting units, which recorded impairment charges of \$93 million. The fair values of the reporting units were calculated using a weighted combination of the income approach, which estimates fair value based on discounted cash flows, and the market approach, which estimates fair value based on market comparables within the utility and energy industries.

Estimated future cash flows under the income approach are based on Duke Energy's internal business plan. Significant assumptions used are growth rates, future rates of return expected to result from ongoing rate regulation and discount rates. Management determines the appropriate discount rate for each of its reporting units based on the WACC for each individual reporting unit. The WACC takes into account both the after-tax cost of debt and cost of equity. A major component of the cost of equity is the current risk-free rate on 20-year U.S. Treasury bonds. In the 2018 impairment tests, Duke Energy considered implied WACCs for certain peer companies in determining the appropriate WACC rates to use in its analysis. As each reporting unit has a different risk profile based on the nature of its operations, including factors such as regulation, the WACC for each reporting unit may differ. Accordingly, the WACCs were adjusted, as appropriate, to account for company specific risk premiums. The discount rates used for calculating the fair values as of August 31, 2018, for each of Duke Energy's reporting units ranged from 5.5 percent to 6.9 percent. The underlying assumptions and estimates are made as of a point in time. Subsequent changes, particularly changes in the discount rates, authorized regulated rates of return or growth rates inherent in management's estimates of future cash flows, could result in future impairment charges.

One of the most significant assumptions utilized in determining the fair value of reporting units under the market approach is implied market multiples for certain peer companies. Management selects comparable peers based on each peer's primary business mix, operations, and market capitalization compared to the applicable reporting unit and calculates implied market multiples based on available projected earnings guidance and peer company market values as of August 31.

Duke Energy primarily operates in environments that are rate-regulated. In such environments, revenue requirements are adjusted periodically by regulators based on factors including levels of costs, sales volumes and costs of capital. Accordingly, Duke Energy's regulated utilities operate to some degree with a buffer from the direct effects, positive or negative, of significant swings in market or economic conditions. However, significant changes in discount rates over a prolonged period may have a material impact on the fair value of equity.

For further information, see Note 11 to the Consolidated Financial Statements, "Goodwill and Intangible Assets."

Asset Retirement Obligations

AROs are recognized for legal obligations associated with the retirement of property, plant and equipment at the present value of the projected liability in the period in which it is incurred, if a reasonable estimate of fair value can be made.

The present value of the initial obligation and subsequent updates are based on discounted cash flows, which include estimates regarding timing of future cash flows, selection of discount rates and cost escalation rates, among other factors. These estimates are subject to change.

Obligations for nuclear decommissioning are based on site-specific cost studies. Duke Energy Carolinas and Duke Energy Progress assume prompt dismantlement of the nuclear facilities after operations are ceased. Duke Energy Florida assumes Crystal River Unit 3 will be placed into a safe storage configuration until eventual dismantlement is completed by 2074. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida also assume that

spent fuel will be stored on-site until such time that it can be transferred to a yet to be built DOE facility.

Obligations for closure of ash basins are based upon discounted cash flows of estimated costs for site-specific plans, if known, or probability weightings of the potential closure methods if the closure plans are under development and multiple closure options are being considered and evaluated on a site-by-site basis.

For further information, see Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations."

Long-Lived Asset Impairment Assessments, Excluding Regulated Operations

Duke Energy evaluates property, plant and equipment for impairment when events or changes in circumstances (such as a significant change in cash flow projections or the determination that it is more likely than not that an asset or asset group will be sold) indicate the carrying value of such assets may not be recoverable. The determination of whether an impairment has occurred is based on an estimate of undiscounted future cash flows attributable to the assets, as compared with their carrying value.

Performing an impairment evaluation involves a significant degree of estimation and judgment in areas such as identifying circumstances that indicate an impairment may exist, identifying and grouping affected assets and developing the undiscounted future cash flows. If an impairment has occurred, the amount of the impairment recognized is determined by estimating the fair value and recording a loss if the carrying value is greater than the fair value. Additionally, determining fair value requires probability weighting future cash flows to reflect expectations about possible variations in their amounts or timing and the selection of an appropriate discount rate. Although cash flow estimates are based on relevant information available at the time the estimates are made, estimates of future cash flows are, by nature, highly uncertain and may vary significantly from actual results.

When determining whether an asset or asset group has been impaired, management groups assets at the lowest level that has discrete cash flows.

For further information, see Note 10 to the Consolidated Financial Statements, "Property, Plant and Equipment."

Equity Method Investments

Equity method investments are assessed for impairment when conditions exist that indicate that the fair value of the investment is less than book value. If the decline in value is considered to be other-than-temporary, an impairment charge is recorded and the investment is written down to its estimated fair value, which establishes a new cost basis in the investment.

Events or changes in circumstances are monitored that may indicate, in management's judgment, the carrying value of such investments may have experienced an other-than-temporary decline in value. The fair value of equity method investments is generally estimated using an income approach where significant judgments and assumptions include expected future cash flows, the appropriate discount rate, and probability weighted-scenarios, if applicable. In certain instances, a market approach may also be used to estimate the fair value of the equity method investment.

Events or changes in circumstances that may be indicative of an other-than-temporary decline in value will vary by investment, but may include:

- Significant delays in or failure to complete significant growth projects of investees;
- Adverse regulatory actions expected to substantially reduce the investee's product demand or profitability;
- Expected financial performance significantly worse than anticipated when initially invested;
- Prolonged period the fair value is below carrying value;

PART II

- A significant or sustained decline in the market value of an investee;
- Lower than expected cash distributions from investees;
- Significant asset impairments or operating losses recognized by investees; and
- Loss of significant customers or suppliers with no immediate prospects for replacement.

ACP

As of December 31, 2018, the carrying value of the equity method investment in ACP is \$0.8 billion, and Duke Energy's maximum exposure to loss for its guarantee of the ACP revolving credit facility is \$0.7 billion. During the fourth quarter of 2018, ACP received several adverse court rulings as described in Note 4 to the Consolidated Financial Statements, "Regulatory Matters." As a result, Duke Energy evaluated this investment for impairment and determined that fair value approximated carrying value and therefore no impairment was necessary.

Duke Energy estimated the fair value of its investment in ACP using an income approach that primarily considered probability-weighted scenarios of discounted future net cash flows based on the most recent estimate of total construction costs and revenues. These scenarios included assumptions of various court decisions and the impact those decisions may have on the timing and extent of investment, including scenarios assuming the full resolution of permitting issues in addition to a scenario where the project does not proceed. Most of the scenarios reflect phased in-service date assumptions. Certain scenarios within the analysis also included growth expectations from additional compression or other expansion opportunities and reopeners for pricing. A discount rate of 6.1 percent was used in the analysis. Higher probabilities were generally assigned to those scenarios where court approvals were received and the project moves forward under reasonable timelines reflecting interim rates and either current contracted pricing provisions, or prices subject to the reopeners. A very low probability was assigned to the scenario where the project does not proceed.

Judgments and assumptions are inherent in our estimates of future cash flows, discount rates, growth assumptions, and the likelihood of various scenarios. It is reasonably possible that future unfavorable developments, such as a reduced likelihood of success with court approvals, increased estimates of construction costs, material increases in the discount rate, important feedback on customer price increases or further significant delays, could result in a future impairment. The use of alternate judgments and assumptions could result in a different calculation of fair value, which could ultimately result in the recognition of an impairment charge in the consolidated financial statements.

For further information, see Note 12 to the Consolidated Financial Statements, "Investments in Unconsolidated Affiliates."

Pension and Other Post-Retirement Benefits

The calculation of pension expense, other post-retirement benefit expense and net pension and other post-retirement assets or liabilities require the use of assumptions and election of permissible accounting alternatives. Changes in assumptions can result in different expense and reported asset or liability amounts and future actual experience can differ from the assumptions. Duke

Energy believes the most critical assumptions for pension and other post-retirement benefits are:

- the expected long-term rate of return on plan assets;
- the assumed discount rate applied to future projected benefit payments; and
- the health care cost trend rate.

Duke Energy elects to amortize net actuarial gain or loss amounts that are in excess of 10 percent of the greater of the market-related value of plan assets or the plan's projected benefit obligation, into net pension or other post-retirement benefit expense over the average remaining service period of active participants expected to benefit under the plan. If all or almost all of a plan's participants are inactive, the average remaining life expectancy of the inactive participants is used instead of average remaining service period. Prior service cost or credit, which represents an increase or decrease in a plan's pension benefit obligation resulting from plan amendment, is amortized on a straight-line basis over the average expected remaining service period of active participants expected to benefit under the plan. If all or almost all of a plan's participants are inactive, the average remaining life expectancy of the inactive participants is used instead of average remaining service period.

As of December 31, 2018, Duke Energy assumes pension and other post-retirement plan assets will generate a long-term rate of return of 6.85 percent. The expected long-term rate of return was developed using a weighted average calculation of expected returns based primarily on future expected returns across asset classes considering the use of active asset managers, where applicable. The asset allocation targets were set after considering the investment objective and the risk profile. Equity securities are held for their higher expected returns. Debt securities are primarily held to hedge the qualified pension liability. Real assets, return-seeking fixed income, hedge funds and other global securities are held for diversification. Investments within asset classes are diversified to achieve broad market participation and reduce the impact of individual managers on investments.

Duke Energy discounted its future U.S. pension and other post-retirement obligations using a rate of 4.3 percent as of December 31, 2018. Discount rates used to measure benefit plan obligations for financial reporting purposes reflect rates at which pension benefits could be effectively settled. As of December 31, 2018, Duke Energy determined its discount rate for U.S. pension and other post-retirement obligations using a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

Future changes in plan asset returns, assumed discount rates and various other factors related to the participants in Duke Energy's pension and post-retirement plans will impact future pension expense and liabilities. Duke Energy cannot predict with certainty what these factors will be in the future. The following table presents the approximate effect on Duke Energy's 2018 pretax pension expense, pretax other post-retirement expense, pension obligation and other post-retirement benefit obligation if a 0.25 percent change in rates were to occur.

(in millions)	Qualified and Non-Qualified Pension Plans		Other Post-Retirement Plans	
	0.25%	(0.25)%	0.25%	(0.25)%
Effect on 2018 pretax pension and other post-retirement expense				
Expected long-term rate of return	\$ (22)	\$ 22	\$ (1)	\$ 1
Discount rate	(12)	12	1	(1)
Effect on pension and other post-retirement benefit obligation at December 31, 2018				
Discount rate	(183)	188	(13)	13

PART II

Duke Energy's other post-retirement plan uses a health care cost trend rate covering both pre- and post-age 65 retired plan participants, which is comprised of a medical care cost trend rate, which reflects the near- and long-term expectation of increases in medical costs, and a prescription drug cost trend rate, which reflects the near- and long-term expectation of increases in prescription drug costs. As of December 31, 2018, the health care cost trend rate was 6.5 percent, trending down to 4.75 percent by 2024. The following table presents the approximate effect on Duke Energy's 2018 pretax other post-retirement expense and other post-retirement benefit obligation if a 1 percentage point change in the health care cost trend rate were to occur. These plans are closed to new employees.

(in millions)	Other Post-Retirement Plans	
	1%	(1)%
Effect on 2018 other post-retirement expense	\$ 1	\$ (1)
Effect on other post-retirement benefit obligation at December 31, 2018	22	(20)

For further information, see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans."

LIQUIDITY AND CAPITAL RESOURCES

Sources and Uses of Cash

Duke Energy relies primarily upon cash flows from operations, debt and equity issuances and its existing cash and cash equivalents to fund its liquidity and capital requirements. Duke Energy's capital requirements arise primarily from capital and investment expenditures, repaying long-term debt and paying dividends to shareholders.

Among other provisions, the Tax Act lowers the corporate federal income tax rate from 35 to 21 percent and eliminates bonus depreciation for regulated utilities. For Duke Energy's regulated operations, the reduction in federal income taxes is expected to result in lower regulated customer rates. However, due to its existing NOL position and other tax credits, Duke Energy does not expect to be a significant federal cash tax payer through at least 2022. As a result, any reduction in customer rates could cause a material reduction in consolidated cash flows from operations in the short term. Over time, the reduction in deferred tax liabilities resulting from the Tax Act will increase Duke Energy's regulated rate base investments and customer rates. Impacts of Tax Act to Duke Energy's cash flows and credit metrics are subject to the regulatory actions of its state commissions and the FERC. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

The Subsidiary Registrants generally maintain minimal cash balances and use short-term borrowings to meet their working capital needs and other cash requirements. The Subsidiary Registrants, excluding Progress Energy (Parent), support their short-term borrowing needs through participation with Duke Energy and certain of its other subsidiaries in a money pool arrangement. The companies with short-term funds may provide short-term loans to affiliates participating under this arrangement. See Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities," for additional discussion of the money pool arrangement.

Duke Energy and the Subsidiary Registrants, excluding Progress Energy (Parent), may also use short-term debt, including commercial paper and the money pool, as a bridge to long-term debt financings. The levels of borrowing may vary significantly over the course of the year due to the timing of long-term debt financings and the impact of fluctuations in cash flows from operations. From time to time, Duke Energy's current liabilities exceed current assets resulting from the use of short-term debt as a funding source to meet scheduled maturities of long-term debt, as well as cash needs, which can fluctuate due to the seasonality of its businesses.

Equity Issuance

In order to strengthen its balance sheet and credit metrics and bolster cash flows, Duke Energy plans to issue \$500 million of common stock equity per year through 2023 through the DRIP and ATM programs. See Note 19 to the Consolidated Financial Statements, "Common Stock," for further information regarding Duke Energy's equity issuances in 2018.

Credit Facilities and Registration Statements

See Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities," for further information regarding credit facilities and shelf registration statements available to Duke Energy and the Duke Energy Registrants.

CAPITAL EXPENDITURES

Duke Energy continues to focus on reducing risk and positioning its business for future success and will invest principally in its strongest business sectors. Duke Energy's projected capital and investment expenditures, including debt AFUDC and capitalized interest, for the next three fiscal years are included in the table below.

(in millions)	2019	2020	2021
New generation	\$ 375	\$ 125	\$ 220
Regulated renewables	415	410	710
Environmental	240	125	35
Nuclear fuel	430	505	390
Major nuclear	305	315	250
Customer additions	505	480	475
Grid modernization and other transmission and distribution projects	2,835	3,160	2,980
Maintenance and other	3,395	2,605	2,390
Total Electric Utilities and Infrastructure	8,500	7,725	7,450
Gas Utilities and Infrastructure	1,675	2,000	1,600
Commercial Renewables and Other	925	825	625
Total projected capital and investment expenditures	\$ 11,100	\$ 10,550	\$ 9,675

DEBT MATURITIES

See Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities," for further information regarding significant components of Current Maturities of Long-Term Debt on the Consolidated Balance Sheets.

DIVIDEND PAYMENTS

In 2018, Duke Energy paid quarterly cash dividends for the 92nd consecutive year and expects to continue its policy of paying regular cash dividends in the future. There is no assurance as to the amount of future dividends because they depend on future earnings, capital requirements, financial condition and are subject to the discretion of the Board of Directors.

PART II

Duke Energy targets a dividend payout ratio of between 65 and 75 percent, based upon adjusted diluted EPS, and expects this trend to continue through 2023. In 2017 and 2018, Duke Energy increased the dividend by approximately 4 percent annually, and the company remains committed to continued growth of the dividend.

Dividend and Other Funding Restrictions of Duke Energy Subsidiaries

As discussed in Note 4 to the Consolidated Financial Statements, "Regulatory Matters," Duke Energy's wholly owned public utility operating companies have restrictions on the amount of funds that can be transferred to Duke Energy through dividends, advances or loans as a result of conditions imposed by various regulators in conjunction with merger transactions. Duke Energy Progress and Duke Energy Florida also have restrictions imposed by their first mortgage bond indentures and Articles of Incorporation, which in certain circumstances, limit their ability to make cash dividends or distributions on common stock. Additionally, certain other Duke Energy subsidiaries have other restrictions, such as minimum working capital and tangible net worth requirements pursuant to debt and other agreements that limit the amount of funds that can be transferred to Duke Energy. At December 31, 2018, the amount of restricted net assets of wholly owned subsidiaries of Duke Energy that may not be distributed to Duke Energy in the form of a loan or dividend does not exceed a material amount of Duke Energy's net assets. Duke Energy does not have any legal or other restrictions on paying common stock dividends to shareholders out of its consolidated equity accounts. Although these restrictions cap the amount of funding the various operating subsidiaries can provide to Duke Energy, management does not believe these restrictions will have a significant impact on Duke Energy's ability to access cash to meet its payment of dividends on common stock and other future funding obligations.

CASH FLOWS FROM OPERATING ACTIVITIES

Cash flows from operations of Electric Utilities and Infrastructure and Gas Utilities and Infrastructure are primarily driven by sales of electricity and natural gas, respectively, and costs of operations. These cash flows from operations are relatively stable and comprise a substantial portion of Duke Energy's operating cash flows. Weather conditions, working capital and commodity price fluctuations and unanticipated expenses including unplanned plant outages, storms, legal costs and related settlements can affect the timing and level of cash flows from operations.

Duke Energy believes it has sufficient liquidity resources through the commercial paper markets, and ultimately, the Master Credit Facility, to support these operations. Cash flows from operations are subject to a number of other factors, including, but not limited to, regulatory constraints, economic trends and market volatility (see Item 1A, "Risk Factors," for additional information).

At December 31, 2018, Duke Energy had cash and cash equivalents and short-term investments of \$442 million.

DEBT ISSUANCES

Depending on availability based on the issuing entity, the credit rating of the issuing entity, and market conditions, the Subsidiary Registrants prefer to issue first mortgage bonds and secured debt, followed by unsecured debt. This preference is the result of generally higher credit ratings for first mortgage bonds and secured debt, which typically result in lower interest costs. Duke Energy Corporation primarily issues unsecured debt.

In 2019, Duke Energy anticipates issuing additional debt of \$7.5 billion, primarily for the purpose of funding capital expenditures and debt maturities. See to Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities," for further information regarding significant debt issuances in 2018.

Duke Energy's capitalization is balanced between debt and equity as shown in the table below.

	Projected 2019	Actual 2018	Actual 2017
Equity	44%	43%	43%
Debt	56%	57%	57%

Restrictive Debt Covenants

Duke Energy's debt and credit agreements contain various financial and other covenants. Duke Energy's Master Credit Facility contains a covenant requiring the debt-to-total capitalization ratio to not exceed 65 percent for each borrower, excluding Piedmont, and 70 percent for Piedmont. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements or sublimits thereto. As of December 31, 2018, each of the Duke Energy Registrants was in compliance with all covenants related to their debt agreements. In addition, some credit agreements may allow for acceleration of payments or termination of the agreements due to nonpayment, or acceleration of other significant indebtedness of the borrower or some of its subsidiaries. None of the debt or credit agreements contain material adverse change clauses.

Credit Ratings

Moody's, S&P and Fitch Ratings, Inc. provide credit ratings for various Duke Energy Registrants. The following table includes Duke Energy and certain subsidiaries' credit ratings and ratings outlook as of February 2019.

	Moody's	S&P	Fitch
Duke Energy Corporation	Stable	Stable	Stable
Issuer Credit Rating	Baa1	A-	BBB+
Senior Unsecured Debt	Baa1	BBB+	BBB+
Commercial Paper	P-2	A-2	F-2
Duke Energy Carolinas	Stable	Stable	N/A
Senior Secured Debt	Aa2	A	N/A
Senior Unsecured Debt	A1	A-	N/A
Progress Energy	Stable	Stable	N/A
Senior Unsecured Debt	Baa1	BBB+	N/A
Duke Energy Progress	Stable	Stable	N/A
Senior Secured Debt	Aa3	A	N/A
Duke Energy Florida	Stable	Stable	N/A
Senior Secured Debt	A1	A	N/A
Senior Unsecured Debt	A3	A-	N/A
Duke Energy Ohio	Stable	Stable	N/A
Senior Secured Debt	A2	A	N/A
Senior Unsecured Debt	Baa1	A-	N/A
Duke Energy Indiana	Stable	Stable	N/A
Senior Secured Debt	Aa3	A	N/A
Senior Unsecured Debt	A2	A-	N/A
Duke Energy Kentucky	Stable	Stable	N/A
Senior Unsecured Debt	Baa1	A-	N/A
Piedmont Natural Gas	Stable	Stable	N/A
Senior Unsecured	A3	A-	N/A

Credit ratings are intended to provide credit lenders a framework for comparing the credit quality of securities and are not a recommendation to buy, sell or hold. The Duke Energy Registrants' credit ratings are dependent on the rating agencies' assessments of their ability to meet their debt principal and interest obligations when they come due. If, as a result of market conditions or other factors, the Duke Energy Registrants are unable to maintain current balance sheet strength, or if earnings and cash flow outlook materially deteriorates, credit ratings could be negatively impacted.

PART II

Cash Flow Information

The following table summarizes Duke Energy's cash flows for the three most recently completed fiscal years.

(in millions)	Years Ended December 31,		
	2018	2017	2016
Cash flows provided by (used in):			
Operating activities	\$ 7,186	\$ 6,624	\$ 6,863
Investing activities	(10,060)	(8,442)	(11,528)
Financing activities	2,960	1,782	4,251
Changes in cash and cash equivalents included in assets held for sale	—	—	474
Net increase (decrease) in cash, cash equivalents and restricted cash	86	(36)	60
Cash, cash equivalents and restricted cash at beginning of period	505	541	481
Cash, cash equivalents and restricted cash at end of period	\$ 591	\$ 505	\$ 541

OPERATING CASH FLOWS

The following table summarizes key components of Duke Energy's operating cash flows for the three most recently completed fiscal years.

(in millions)	Years Ended December 31,				
	2018	2017	Variance 2018 vs. 2017	2016	Variance 2017 vs. 2016
Net income	\$ 2,644	\$ 3,064	\$ (420)	\$ 2,170	\$ 894
Non-cash adjustments to net income	6,484	5,380	1,104	5,305	75
Contributions to qualified pension plans	(141)	(19)	(122)	(155)	136
Payments for AROs	(533)	(571)	38	(608)	37
Payment for disposal of other assets	(105)	—	(105)	—	—
Working capital	(1,163)	(1,230)	67	151	(1,381)
Net cash provided by operating activities	\$ 7,186	\$ 6,624	\$ 562	\$ 6,863	\$ (239)

For the year ended December 31, 2018, compared to 2017, the variance was driven primarily by:

- a \$684 million increase in net income after adjustment for non-cash items primarily due to favorable weather and increased pricing and volumes in the current period; and
- a \$38 million decrease in payments to AROs.

Offset by:

- a \$122 million increase in contributions to qualified pension plans; and
- a \$105 million payment for disposal of Beckjord.

For the year ended December 31, 2017, compared to 2016, the variance was driven primarily by:

- a \$1,381 million decrease in working capital due to weather, payment of merger transaction and integration related costs and increased property tax payments in 2017.

Offset by:

- a \$969 million increase in net income after non-cash adjustments primarily due to the inclusion of Piedmont's earnings for a full year, favorable pricing and weather-normal retail volumes driven by the residential class in the Electric Utilities and Infrastructure segment combined with continued strong cost control;
- a \$136 million decrease in contributions to qualified pension plans; and
- a \$37 million decrease in payments to AROs.

INVESTING CASH FLOWS

The following table summarizes key components of Duke Energy's investing cash flows for the three most recently completed fiscal years.

(in millions)	Years Ended December 31,				
	2018	2017	Variance 2018 vs. 2017	2016	Variance 2017 vs. 2016
Capital, investment and acquisition expenditures	\$ (9,668)	\$ (8,198)	\$ (1,470)	\$ (13,215)	\$ 5,017
Debt and equity securities, net	(15)	27	(42)	83	(56)
Net proceeds from the sales of discontinued operations and other assets, net of cash divested	41	—	41	1,418	(1,418)
Other investing items	(418)	(271)	(147)	186	(457)
Net cash used in investing activities	\$ (10,060)	\$ (8,442)	\$ (1,618)	\$ (11,528)	\$ 3,086

PART II

The primary use of cash related to investing activities is capital, investment and acquisition expenditures, detailed by reportable business segment in the following table.

(in millions)	Years Ended December 31,		
	2018	2017	2016
Electric Utilities and Infrastructure	\$ 8,086	\$ 7,024	\$ 6,649
Gas Utilities and Infrastructure	1,133	907	5,519
Commercial Renewables	193	92	857
Other	256	175	190
Total capital, investment and acquisition expenditures	\$ 9,668	\$ 8,198	\$ 13,215

For the year ended December 31, 2018, compared to 2017, the variance was driven primarily by:

- a \$1,470 million increase in capital, investment and acquisition expenditures in all reportable business segments, including expenditures related to W.S. Lee CC, Asheville and Citrus County CC at Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, respectively.

For the year ended December 31, 2017, compared to 2016, the variance was driven primarily by:

- a \$5,017 million decrease in capital, investment and acquisition expenditures mainly due to the Piedmont acquisition in the prior year.

Partially offset by:

- a \$1,418 million decrease in net proceeds from sales of discontinued operations due to the prior year sale of the International business.

FINANCING CASH FLOWS

The following table summarizes key components of Duke Energy's financing cash flows for the three most recently completed fiscal years.

(in millions)	Years Ended December 31,				
	2018	2017	Variance 2018 vs. 2017	2016	Variance 2017 vs. 2016
Issuance of common stock	\$ 1,838	\$ —	\$ 1,838	\$ 731	\$ (731)
Issuances of long-term debt, net	2,393	4,593	(2,200)	7,315	(2,722)
Notes payable and commercial paper	1,171	(362)	1,533	(1,447)	1,085
Dividends paid	(2,471)	(2,450)	(21)	(2,332)	(118)
Other financing items	29	1	28	(16)	17
Net cash provided by financing activities	\$ 2,960	\$ 1,782	\$ 1,178	\$ 4,251	\$ (2,469)

For the year ended December 31, 2018, compared to 2017, the variance was driven primarily by:

- a \$1,838 million increase in proceeds from the issuance of common stock; and
- a \$1,533 million increase in net borrowings from notes payable and commercial paper primarily due to increased funding requirements for capital expenditures and storm costs.

Partially offset by:

- a \$2,200 million net decrease in proceeds from issuances of long-term debt primarily due to timing related to refinancing of existing maturities, fund growth and general corporate needs.

For the year ended December 31, 2017, compared to 2016, the variance was driven primarily by:

- a \$2,722 million net decrease in proceeds from issuances of long-term debt driven principally by the prior year \$3,750 million of senior unsecured notes used to fund a portion of the Piedmont acquisition, offset primarily by \$900 million of first mortgage bonds issued by Duke Energy Florida in the current year to fund capital expenditures for ongoing construction and capital maintenance and for general corporate purposes;
- a \$731 million decrease in proceeds from stock issuances used to fund a portion of the Piedmont acquisition in 2016; and
- a \$118 million current year increase in dividends paid.

Partially offset by:

- a \$1,085 million decrease in net borrowings from notes payable and commercial paper primarily due to the use of proceeds from \$1,294 million nuclear asset-recovery bonds issued at Duke Energy Florida in 2016 to pay down outstanding commercial paper.

PART II

Off-Balance Sheet Arrangements

Duke Energy and certain of its subsidiaries enter into guarantee arrangements in the normal course of business to facilitate commercial transactions with third parties. These arrangements include performance guarantees, standby letters of credit, debt guarantees, surety bonds and indemnifications.

Most of the guarantee arrangements entered into by Duke Energy enhance the credit standing of certain subsidiaries, non-consolidated entities or less than wholly owned entities, enabling them to conduct business. As such, these guarantee arrangements involve elements of performance and credit risk, which are not always included on the Consolidated Balance Sheets. The possibility of Duke Energy, either on its own or on behalf of Spectra Energy Capital, LLC (Spectra Capital) through indemnification agreements entered into as part of the January 2, 2007, spin-off of Spectra Energy Corp, having to honor its contingencies is largely dependent upon the future operations of the subsidiaries, investees and other third parties, or the occurrence of certain future events.

Duke Energy performs ongoing assessments of its respective guarantee obligations to determine whether any liabilities have been incurred as a result of potential increased non-performance risk by third parties for which Duke Energy has issued guarantees. See Note 7 to the Consolidated Financial Statements, "Guarantees and Indemnifications," for further details of the guarantee arrangements. Issuance of these guarantee arrangements is not required for the majority of Duke Energy's operations. Thus, if Duke Energy discontinued issuing these guarantees, there would not be a material impact to the consolidated results of operations, cash flows or financial position.

Other than the guarantee arrangements discussed above, normal operating lease arrangements and off-balance sheet debt related to non-consolidated VIEs, Duke Energy does not have any material off-balance sheet financing entities or structures. For additional information, see Notes 5 and 17 to the Consolidated Financial Statements, "Commitments and Contingencies" and "Variable Interest Entities," respectively.

Contractual Obligations

Duke Energy enters into contracts that require payment of cash at certain specified periods, based on certain specified minimum quantities and prices. The following table summarizes Duke Energy's contractual cash obligations as of December 31, 2018.

(in millions)	Total	Payments Due By Period			
		Less than 1 year (2019)	2-3 years (2020 & 2021)	4-5 years (2022 & 2023)	More than 5 years (2024 & beyond)
Long-term debt ^(a)	\$ 52,446	\$ 3,291	\$ 8,311	\$ 5,861	\$ 34,983
Interest payments on long-term debt ^(b)	32,834	2,121	3,823	3,329	23,561
Capital leases ^(c)	1,428	170	351	330	577
Operating leases ^(c)	1,991	239	405	330	1,017
Purchase obligations: ^(d)					
Fuel and purchased power ^{(e)(f)}	20,496	4,329	5,315	3,153	7,699
Other purchase obligations ^(g)	12,436	4,617	1,178	775	5,866
Nuclear decommissioning trust annual funding ^(h)	482	24	48	48	362
Land easements ⁽ⁱ⁾	234	10	20	20	184
Total contractual cash obligations^{(j)(k)}	\$ 122,347	\$ 14,801	\$ 19,451	\$ 13,846	\$ 74,249

(a) See Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities."

(b) Interest payments on variable rate debt instruments were calculated using December 31, 2018, interest rates and holding them constant for the life of the instruments.

(c) See Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies." Amounts in the table above include the interest component of capital leases based on the interest rates stated in the lease agreements and exclude certain related executory costs. Amounts exclude contingent lease obligations.

(d) Current liabilities, except for current maturities of long-term debt, and purchase obligations reflected on the Consolidated Balance Sheets have been excluded from the above table.

(e) Includes firm capacity payments that provide Duke Energy with uninterrupted firm access to electricity transmission capacity and natural gas transportation contracts, as well as undesignated contracts and contracts that qualify as NPNS. For contracts where the price paid is based on an index, the amount is based on market prices at December 31, 2018, or the best projections of the index. For certain of these amounts, Duke Energy may settle on a net cash basis since Duke Energy has entered into payment netting arrangements with counterparties that permit Duke Energy to offset receivables and payables with such counterparties.

(f) Amounts exclude obligations under the OVEC purchase power agreement. See Note 17 to the Consolidated Financial Statements, "Variable Interest Entities," for additional information.

(g) Includes contracts for software, telephone, data and consulting or advisory services. Amount also includes contractual obligations for EPC costs for new generation plants, wind and solar facilities, plant refurbishments, maintenance and day-to-day contract work and commitments to buy certain products. Amount excludes certain open purchase orders for services that are provided on demand, for which the timing of the purchase cannot be determined.

(h) Related to future annual funding obligations to NDTF through nuclear power stations' relicensing dates. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations."

(i) Related to Commercial Renewables wind and solar facilities.

(j) Unrecognized tax benefits of \$24 million are not reflected in this table as Duke Energy cannot predict when open income tax years will close with completed examinations. See Note 23 to the Consolidated Financial Statements, "Income Taxes."

(k) The table above excludes reserves for litigation, environmental remediation, asbestos-related injuries and damages claims and self-insurance claims (see Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies") because Duke Energy is uncertain as to the timing and amount of cash payments that will be required. Additionally, the table above excludes annual insurance premiums that are necessary to operate the business, including nuclear insurance (see Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies"), funding of pension and other post-retirement benefit plans (see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans"), AROs, including ash management expenditures (see Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations") and regulatory liabilities (see Note 4 to the Consolidated Financial Statements, "Regulatory Matters") because the amount and timing of the cash payments are uncertain. Also excluded are Deferred Income Taxes and ITCs recorded on the Consolidated Balance Sheets since cash payments for income taxes are determined based primarily on taxable income for each discrete fiscal year.

PART II

QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Risk Management Policies

The Enterprise Risk Management policy framework at Duke Energy includes strategy, operational, project execution and financial or transaction related risks. Enterprise Risk Management includes market risk as part of the financial and transaction related risks in its framework.

Duke Energy is exposed to market risks associated with commodity prices, interest rates and equity prices. Duke Energy has established comprehensive risk management policies to monitor and manage these market risks. Duke Energy's Chief Executive Officer and Chief Financial Officer are responsible for the overall approval of market risk management policies and the delegation of approval and authorization levels. The Finance and Risk Management Committee of the Board of Directors receives periodic updates from the Chief Risk Officer and other members of management on market risk positions, corporate exposures and overall risk management activities. The Chief Risk Officer is responsible for the overall governance of managing commodity price risk, including monitoring exposure limits.

The following disclosures about market risk contain forward-looking statements that involve estimates, projections, goals, forecasts, assumptions, risks and uncertainties that could cause actual results or outcomes to differ materially from those expressed in the forward-looking statements. See Item 1A, "Risk Factors," and "Cautionary Statement Regarding Forward-Looking Information" for a discussion of the factors that may impact any such forward-looking statements made herein.

Commodity Price Risk

Duke Energy is exposed to the impact of market fluctuations in the prices of electricity, coal, natural gas and other energy-related products marketed and purchased as a result of its ownership of energy-related assets. Duke Energy's exposure to these fluctuations is limited by the cost-based regulation of its regulated operations as these operations are typically allowed to recover substantially all of these costs through various cost-recovery clauses, including fuel clauses, formula based contracts, or other cost-sharing mechanisms. While there may be a delay in timing between when these costs are incurred and when they are recovered through rates, changes from year to year generally do not have a material impact on operating results of these regulated operations.

Price risk represents the potential risk of loss from adverse changes in the market price of electricity or other energy commodities. Duke Energy's exposure to commodity price risk is influenced by a number of factors, including contract size, length, market liquidity, location and unique or specific contract terms. Duke Energy employs established policies and procedures to manage risks associated with these market fluctuations, which may include using various commodity derivatives, such as swaps, futures, forwards and options. For additional information, see Note 14 to the Consolidated Financial Statements, "Derivatives and Hedging."

The inputs and methodologies used to determine the fair value of contracts are validated by an internal group separate from Duke Energy's deal origination function. While Duke Energy uses common industry practices to develop its valuation techniques, changes in its pricing methodologies or the underlying assumptions could result in significantly different fair values and income recognition.

Hedging Strategies

Duke Energy closely monitors risks associated with commodity price changes on its future operations and, where appropriate, uses various commodity instruments such as electricity, coal and natural gas forward contracts and options to mitigate the effect of such fluctuations on operations. Duke Energy's

primary use of energy commodity derivatives is to hedge against exposure to the prices of power, fuel for generation and natural gas for customers.

The majority of instruments used to manage Duke Energy's commodity price exposure are either not designated as hedges or do not qualify for hedge accounting. These instruments are referred to as undesignated contracts. Mark-to-market changes for undesignated contracts entered into by regulated businesses are reflected as regulatory assets or liabilities on the Consolidated Balance Sheets. Undesignated contracts entered into by unregulated businesses are marked-to-market each period, with changes in the fair value of the derivative instruments reflected in earnings.

Duke Energy may also enter into other contracts that qualify for the NPNS exception. When a contract meets the criteria to qualify as NPNS, Duke Energy applies such exception. Income recognition and realization related to NPNS contracts generally coincide with the physical delivery of the commodity. For contracts qualifying for the NPNS exception, no recognition of the contract's fair value in the Consolidated Financial Statements is required until settlement of the contract as long as the transaction remains probable of occurring.

Generation Portfolio Risks

The Duke Energy Registrants optimize the value of their generation portfolios, which include generation assets, fuel and emission allowances. Modeled forecasts of future generation output and fuel requirements are based on forward power and fuel markets. The component pieces of the portfolio are bought and sold based on models and forecasts of generation in order to manage the economic value of the portfolio in accordance with the strategies of the business units.

For the Electric Utilities and Infrastructure segment, the generation portfolio not utilized to serve retail operations or committed load is subject to commodity price fluctuations. However, the impact on the Consolidated Statements of Operations is partially offset by mechanisms in these regulated jurisdictions that result in the sharing of net profits from these activities with retail customers.

Interest Rate Risk

Duke Energy is exposed to risk resulting from changes in interest rates as a result of its issuance or anticipated issuance of variable and fixed-rate debt and commercial paper. Duke Energy manages interest rate exposure by limiting variable-rate exposures to a percentage of total debt and by monitoring the effects of market changes in interest rates. Duke Energy also enters into financial derivative instruments, which may include instruments such as, but not limited to, interest rate swaps, swaptions and U.S. Treasury lock agreements to manage and mitigate interest rate risk exposure. See Notes 1, 6, 14 and 16 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies," "Debt and Credit Facilities," "Derivatives and Hedging," and "Fair Value Measurements."

At December 31, 2018, Duke Energy had \$1.2 billion of U.S. treasury lock agreements, \$644 million notional amount of floating-to-fixed swaps outstanding, \$500 million notional amount of fixed-to-floating swaps outstanding and \$300 million forward-starting swaps outstanding. Duke Energy had \$8.0 billion of unhedged long- and short-term floating interest rate exposure at December 31, 2018. The impact of a 100 basis point change in interest rates on pretax income is approximately \$80 million at December 31, 2018. This amount was estimated by considering the impact of the hypothetical interest rates on variable-rate securities outstanding, adjusted for interest rate hedges as of December 31, 2018.

See Note 14, "Derivatives and Hedging," to the Consolidated Financial Statements for additional information about the forward-starting interest rate swaps related to the Piedmont acquisition.

PART II

Credit Risk

Credit risk represents the loss that the Duke Energy Registrants would incur if a counterparty fails to perform under its contractual obligations. Where exposed to credit risk, the Duke Energy Registrants analyze the counterparty's financial condition prior to entering into an agreement and monitor exposure on an ongoing basis. The Duke Energy Registrants establish credit limits where appropriate in the context of contractual arrangements and monitor such limits.

To reduce credit exposure, the Duke Energy Registrants seek to include netting provisions with counterparties, which permit the offset of receivables and payables with such counterparties. The Duke Energy Registrants also frequently use master agreements with credit support annexes to further mitigate certain credit exposures. The master agreements provide for a counterparty to post cash or letters of credit to the exposed party for exposure in excess of an established threshold. The threshold amount represents a negotiated unsecured credit limit for each party to the agreement, determined in accordance with the Duke Energy Registrants' internal corporate credit practices and standards. Collateral agreements generally also provide that the inability to post collateral is sufficient cause to terminate contracts and liquidate all positions.

The Duke Energy Registrants also obtain cash or letters of credit from certain counterparties to provide credit support outside of collateral agreements, where appropriate, based on a financial analysis of the counterparty and the regulatory or contractual terms and conditions applicable to each transaction. See Note 14 to the Consolidated Financial Statements, "Derivatives and Hedging," for additional information regarding credit risk related to derivative instruments.

The Duke Energy Registrants' principal counterparties for its electric and natural gas businesses are regional transmission organizations, distribution companies, municipalities, electric cooperatives and utilities located throughout the U.S. The Duke Energy Registrants have concentrations of receivables from such entities throughout these regions. These concentrations of receivables may affect the Duke Energy Registrants' overall credit risk in that risk factors can negatively impact the credit quality of the entire sector.

The Duke Energy Registrants are also subject to credit risk from transactions with their suppliers that involve prepayments in conjunction with outsourcing arrangements, major construction projects and certain commodity purchases. The Duke Energy Registrants' credit exposure to such suppliers may take the form of increased costs or project delays in the event of non-performance. The Duke Energy Registrants' frequently require guarantees or letters of credit from suppliers to mitigate this credit risk.

Credit risk associated with the Duke Energy Registrants' service to residential, commercial and industrial customers is generally limited to outstanding accounts receivable. The Duke Energy Registrants mitigate this credit risk by requiring customers to provide a cash deposit, letter of credit or surety bond until a satisfactory payment history is established, subject to the rules and regulations in effect in each retail jurisdiction, at which time the deposit is typically refunded. Charge-offs for retail customers have historically been insignificant to the operations of the Duke Energy Registrants and are typically recovered through retail rates. Management continually monitors customer charge-offs and payment patterns to ensure the adequacy of bad debt reserves. Duke Energy Ohio and Duke Energy Indiana sell certain of their accounts receivable and related collections through CRC, a Duke Energy consolidated variable interest entity. Losses on collection are first absorbed by the equity of CRC and next by the subordinated retained interests held by Duke Energy Ohio, Duke Energy Kentucky and Duke Energy Indiana. See Note 17 to the Consolidated Financial Statements, "Variable Interest Entities." Duke Energy also provides certain non-tariff services, primarily to large commercial and industrial customers, in which incurred costs are intended to be recovered from the individual customer and therefore are not subject to rate recovery in the event of customer default. Customer credit worthiness is assessed prior to entering into these transactions.

Duke Energy's Commercial Renewables business segment enters into long-term agreements with certain creditworthy buyers that may not include the right to call for collateral in the event of a credit rating downgrade, and is therefore exposed to market price risk and credit risk related to these agreements. Credit concentration exists to certain counterparties on these agreements.

Duke Energy Carolinas has third-party insurance to cover certain losses related to asbestos-related injuries and damages above an aggregate self-insured retention. See Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies" for information on asbestos-related injuries and damages claims.

The Duke Energy Registrants also have credit risk exposure through issuance of performance and financial guarantees, letters of credit and surety bonds on behalf of less than wholly owned entities and third parties. Where the Duke Energy Registrants have issued these guarantees, it is possible that they could be required to perform under these guarantee obligations in the event the obligor under the guarantee fails to perform. Where the Duke Energy Registrants have issued guarantees related to assets or operations that have been disposed of via sale, they attempt to secure indemnification from the buyer against all future performance obligations under the guarantees. See Note 7 to the Consolidated Financial Statements, "Guarantees and Indemnifications," for further information on guarantees issued by the Duke Energy Registrants.

Based on the Duke Energy Registrants' policies for managing credit risk, their exposures and their credit and other reserves, the Duke Energy Registrants do not currently anticipate a materially adverse effect on their consolidated financial position or results of operations as a result of non-performance by any counterparty.

Marketable Securities Price Risk

As described further in Note 15 to the Consolidated Financial Statements, "Investments in Debt and Equity Securities," Duke Energy invests in debt and equity securities as part of various investment portfolios to fund certain obligations. The vast majority of investments in equity securities are within the NDTF and assets of the various pension and other post-retirement benefit plans.

Pension Plan Assets

Duke Energy maintains investments to facilitate funding the costs of providing non-contributory defined benefit retirement and other post-retirement benefit plans. These investments are exposed to price fluctuations in equity markets and changes in interest rates. The equity securities held in these pension plans are diversified to achieve broad market participation and reduce the impact of any single investment, sector or geographic region. Duke Energy has established asset allocation targets for its pension plan holdings, which take into consideration the investment objectives and the risk profile with respect to the trust in which the assets are held. See Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans," for additional information regarding investment strategy of pension plan assets.

A significant decline in the value of plan asset holdings could require Duke Energy to increase funding of its pension plans in future periods, which could adversely affect cash flows in those periods. Additionally, a decline in the fair value of plan assets, absent additional cash contributions to the plan, could increase the amount of pension cost required to be recorded in future periods, which could adversely affect Duke Energy's results of operations in those periods.

Nuclear Decommissioning Trust Funds

As required by the NRC, NCUC, PSCSC and FPSC, subsidiaries of Duke Energy maintain trust funds to fund the costs of nuclear decommissioning. As of December 31, 2018, these funds were invested primarily in domestic and international equity securities, debt securities, cash and cash equivalents and

PART II

short-term investments. Per the NRC, Internal Revenue Code, NCUC, PSCSC and FPSC requirements, these funds may be used only for activities related to nuclear decommissioning. These investments are exposed to price fluctuations in equity markets and changes in interest rates. Duke Energy actively monitors its portfolios by benchmarking the performance of its investments against certain indices and by maintaining, and periodically reviewing, target allocation percentages for various asset classes.

Accounting for nuclear decommissioning recognizes that costs are recovered through retail and wholesale rates; therefore, fluctuations in

investment prices do not materially affect the Consolidated Statements of Operations, as changes in the fair value of these investments are primarily deferred as regulatory assets or regulatory liabilities pursuant to Orders by the NCUC, PSCSC, FPSC and FERC. Earnings or losses of the fund will ultimately impact the amount of costs recovered through retail and wholesale rates. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information regarding nuclear decommissioning costs. See Note 15 to the Consolidated Financial Statements, "Investments in Debt and Equity Securities," for additional information regarding NDTF assets.

OTHER MATTERS

Environmental Regulations

The Duke Energy Registrants are subject to federal, state and local regulations regarding air and water quality, hazardous and solid waste disposal and other environmental matters. These regulations can be changed from time to time and result in new obligations of the Duke Energy Registrants.

The following sections outline various proposed and recently enacted legislation and regulations that may impact the Duke Energy Registrants. Refer to Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for further information regarding potential plant retirements and regulatory filings related to the Duke Energy Registrants.

Coal Combustion Residuals

In April 2015, EPA published a rule to regulate the disposal of CCR from electric utilities as solid waste. The federal regulation classifies CCR as nonhazardous waste and allows for beneficial use of CCR with some restrictions. The regulation applies to all new and existing landfills, new and existing surface impoundments receiving CCR and existing surface impoundments that are no longer receiving CCR but contain liquid located at stations currently generating electricity (regardless of fuel source). The rule establishes requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring, protection and remedial procedures and other operational and reporting procedures to ensure the safe disposal and management of CCR. Various industry and environmental parties have appealed EPA's CCR rule in the D.C. Circuit Court. On April 18, 2016, EPA filed a motion with the federal court to settle five issues raised in litigation. On June 14, 2016, the court approved the motion with respect to all of those issues. Duke Energy does not expect a material impact from the settlement or that it will result in additional ARO adjustments. On September 13, 2017, EPA responded to a petition by the Utility Solid Waste Activities Group that the agency would reconsider certain provisions of the final rule, and asked the D.C. Circuit Court to suspend the litigation. The D.C. Circuit Court denied EPA's petition to suspend the litigation and oral argument was held on November 20, 2017. On August 21, 2018, the D.C. Circuit issued its decision in the CCR rule litigation denying relief for industry petitioners' remaining claims and ruling in favor of environmental petitioners on a number of their challenges, including the regulation of inactive CCR surface impoundments at retired plants and the continued operation of unlined impoundments.

On March 15, 2018, EPA published proposed amendments to the federal CCR rule, including revisions that were required as part of a CCR litigation settlement, as well as changes that the agency considers warranted due to the passage of the Water Infrastructure Improvements for the Nation Act, which provides statutory authority for state and federal permit programs. On July 17,

2018, EPA issued a rule (Phase 1, Part 1) finalizing certain, but not all, elements included in the agency's March 15, 2018, proposal. The final rule revises certain closure deadlines and groundwater protection standards in the CCR rule. It does not change the primary requirements for groundwater monitoring, corrective action, inspections and maintenance, and closure, and thus does not materially affect Duke Energy's coal ash basin closure plans or compliance obligations under the CCR rule. On October 22, 2018, a coalition of environmental groups filed a petition for review in the D.C. Circuit Court challenging EPA's final Phase 1, Part 1 revisions to the CCR rule. Briefing in the case concluded in February 2019.

In addition to the requirements of the federal CCR regulation, CCR landfills and surface impoundments will continue to be independently regulated by most states. Cost recovery for future expenditures will be pursued through the normal ratemaking process with federal and state utility commissions and via wholesale contracts, which permit recovery of necessary and prudently incurred costs associated with Duke Energy's regulated operations. For more information, see Notes 4 and 9 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively.

Coal Ash Management Act of 2014

AROs recorded on the Duke Energy Carolinas and Duke Energy Progress Consolidated Balance Sheets at December 31, 2018, and December 31, 2017, include the legal obligation for closure of coal ash basins and the disposal of related ash as a result of the Coal Ash Act, the EPA CCR rule and other agreements. The Coal Ash Act includes a variance procedure for compliance deadlines and other issues surrounding the management of CCR and CCR surface impoundments and prohibits cost recovery in customer rates for unlawful discharge of ash impoundment waters occurring after January 1, 2014. The Coal Ash Act leaves the decision on cost recovery determinations related to closure of ash impoundments to the normal ratemaking processes before utility regulatory commissions.

Consistent with the requirements of the Coal Ash Act, Duke Energy has submitted comprehensive site assessments and groundwater corrective plans to NCDEQ and will submit to NCDEQ site-specific coal ash impoundment closure plans in advance of closure. In support of these closure plans, on November 15, 2018, Duke Energy submitted options analyses, groundwater modeling and net environmental benefits analyses for six sites potentially eligible for closure by cap in place. Separately, on November 16, 2018, Duke Energy submitted a variance application requesting that NCDEQ grant a six-month extension to the closure deadline applicable to the CCR surface impoundments at the Sutton Plant. NCDEQ held a public meeting on January 14, 2019 at which it announced that an extension would be appropriate. A final decision on the variance application is expected by April 15, 2019.

PART II

The current plans for each site are listed in the table below.

NCDEQ Risk Classification	Plants/Current Closure Date	Expected Closure Method
Low	Allen – December 31, 2029 ^(a)	Combination of a cap system and a groundwater monitoring system, or for selected sites, conversion for beneficial use.
	Belews Creek – December 31, 2029 ^(a)	
	Buck – December 31, 2029 ^{(a)(b)}	
	Rogers – December 31, 2029 ^(a)	
	Marshall – December 31, 2029 ^(a)	
	Mayo – December 31, 2029 ^(a)	
Medium	Roxboro – December 31, 2029 ^(a)	Excavation, which may include conversion of the basin to a lined industrial landfill, transferring coal ash to an engineered landfill, or for selected sites, conversion for beneficial use.
	H.F. Lee – December 31, 2029 ^(b)	
	Cape Fear – December 31, 2029 ^(b)	
High	Weatherspoon – August 1, 2028	Excavation, which may include a combination of transferring coal ash to an engineered landfill or for selected sites, conversion for beneficial use.
	Sutton – August 1, 2019	
	Riverbend – August 1, 2019	
	Dan River – August 1, 2019	
	Asheville – August 1, 2022	

(a) In November 2018, the closure deadline for these basins was extended to December 31, 2029 as a result of the completion of certain dam improvement projects and alternative drinking water source projects by October 15, 2018.

(b) The Coal Ash Act requires the installation and operation of three large-scale coal ash beneficiation projects to produce reprocessed ash for use in the concrete industry. Duke Energy has selected the Buck, H.F. Lee and Cape Fear plants for these projects. Closure at these sites is required to be completed no later than December 31, 2029.

For further information on ash basins and recovery, see Notes 4 and 9 to the Consolidated Financial Statements, “Regulatory Matters” and “Asset Retirement Obligations,” respectively.

Estimated Cost and Impacts of Rulemakings

Duke Energy will incur capital expenditures to comply with the environmental regulations and rules discussed above. The following table, as of December 31, 2018, provides five-year estimated costs, excluding AFUDC, of new control equipment that may need to be installed on existing power plants primarily to comply with the Coal Ash Act requirements for conversion to dry disposal of bottom ash and fly ash, CWA 316(b) and ELGs through December 31, 2023. The table excludes ash basin closure costs recorded in Asset retirement obligations on the Consolidated Balance Sheets. For more information related to AROs, see Note 9 to the Consolidated Financial Statements.

(in millions)	Five-Year Estimated Costs
Duke Energy	\$ 420
Duke Energy Carolinas	185
Progress Energy	200
Duke Energy Progress	80
Duke Energy Florida	120
Duke Energy Ohio	15
Duke Energy Indiana	20

The Duke Energy Registrants also expect to incur increased fuel, purchased power, operation and maintenance and other expenses, in addition to costs for replacement generation for potential coal-fired power plant retirements, as a result of these regulations. Actual compliance costs incurred may be materially different from these estimates due to reasons such as the timing and requirements of EPA regulations and the resolution of legal challenges to the rules. The Duke Energy Registrants intend to seek rate recovery of necessary and prudently incurred costs associated with regulated operations to comply with these regulations.

Other Environmental Regulations

The Duke Energy Registrants are also subject to various federal, state and local regulations regarding air and water quality, hazardous and solid waste disposal and other environmental matters, including the following:

- Clean Water Act
- Steam Effluent Limitation Guidelines

- Cross-State Air Pollution Rule
- Carbon Pollution Standards for New, Modified and Reconstructed Power Plants
- Clean Power Plan/ACE Rule

Duke Energy continues to comply with enacted environmental laws and regulations even as certain of these regulations are in various stages of clarification, revision or legal challenges. The Duke Energy Registrants cannot predict the outcome of these matters.

Section 126 Petitions

On November 16, 2016, the state of Maryland filed a petition with EPA under Section 126 of the Clean Air Act alleging that 19 power plants, including two plants (three units) that Duke Energy Registrants own and operate, contribute to violations of EPA's NAAQS for ozone in the state of Maryland. On March 12, 2018, the state of New York filed a petition with EPA, also under Section 126 of the Clean Air Act alleging that over 60 power plants, including four that Duke Energy Registrants own and operate, contribute to violations of EPA's ozone NAAQS in the state of New York. Both Maryland and New York seek EPA orders requiring the states in which the named power plants operate impose more stringent NOx emission limitations on the plants. On October 5, 2018, EPA published a final rule denying the Maryland petition. That same day, Maryland appealed EPA's denial of their Section 126 petition to the D.C. Circuit Court. The impact of these petitions could be more stringent requirements for the operation of NOx emission controls at these plants. The Duke Energy Registrants cannot predict the outcome of these matters.

Global Climate Change

The Duke Energy Registrants' GHG emissions consist primarily of CO₂ and result primarily from operating a fleet of coal-fired and natural gas-fired power plants. In 2018, the Duke Energy Registrants' power plants emitted approximately 105 million tons of CO₂. Future levels of CO₂ emissions will be influenced by variables that include fuel prices, compliance with new or existing regulations, economic conditions that affect electricity demand and the technologies deployed to generate the electricity necessary to meet the customer demand.

The Duke Energy Registrants have taken actions that have resulted in a reduction of CO₂ emissions over time. Actions have included the retirement of 47 coal-fired EGUs with a combined generating capacity of 5,425 MW. Much of that capacity has been replaced with state-of-the-art highly efficient

PART II

natural gas-fired generation that produces far fewer CO₂ emissions per unit of electricity generated. Duke Energy also has made investments to expand its portfolio of wind and solar projects, increase energy efficiency offerings and invest in its zero-CO₂ emissions hydropower and nuclear plants. These efforts have diversified its system and significantly reduced CO₂ emissions. Between 2005 and 2018, the Duke Energy Registrants have collectively lowered the CO₂ emissions from their electricity generation by 31 percent, which potentially lowers the exposure to any future mandatory CO₂ emission reduction requirements or carbon tax, whether as a result of federal legislation, EPA regulation, state regulation or other as yet unknown emission reduction requirement. Duke Energy will continue to explore the use of currently available and commercially demonstrated technology to reduce CO₂ emissions, including energy efficiency, wind, solar, storage and nuclear. Duke Energy will adjust to evolving and innovative technologies in a way that balances the reliability and affordability that customers expect. Under any future scenario involving mandatory CO₂ limitations, the Duke Energy Registrants would plan to seek recovery of their compliance costs through appropriate regulatory mechanisms.

The Duke Energy Registrants recognize certain groups associate severe weather events with increasing levels of GHGs in the atmosphere and forecast the possibility these weather events could have a material impact on future results of operations should they occur more frequently and with greater severity. However, the uncertain nature of potential changes in extreme weather events (such as increased frequency, duration and severity), the long period of time over which any potential changes might take place and the inability to predict potential changes with any degree of accuracy, make estimating any potential future financial risk to the Duke Energy Registrants' operations impossible.

The Duke Energy Registrants annually, biannually or triennially prepare lengthy, forward-looking IRPs. These detailed, highly technical plans are based on the company's thorough analysis of numerous factors that can impact the cost of producing and delivering electricity that influence long-term resource planning decisions. The IRP process helps to evaluate a range of options, taking into account forecasts of future electricity demand, fuel prices, transmission improvements, new generating capacity, integration of renewables, energy storage, energy efficiency and demand response initiatives. The IRP process also helps evaluate potential environmental and regulatory scenarios to better mitigate policy and economic risks. The IRPs we file with regulators look out 10 to 20 years depending on the jurisdiction.

For a number of years, the Duke Energy Registrants have included a price on CO₂ emissions in their IRP planning process to account for the potential regulation of CO₂ emissions. Incorporating a price on CO₂ emissions in the IRPs allows for the evaluation of existing and future resource needs against potential climate change policy risk in the absence of policy certainty. One of the challenges with using a CO₂ price, especially in the absence of a clear and certain policy, is determining the appropriate price to use. To address this uncertainty and ensure the company remains agile, the Duke Energy Registrants typically use a range of potential CO₂ prices to reflect a range of potential policy outcomes.

The Duke Energy Registrants routinely take steps to reduce the potential impact of severe weather events on their electric distribution systems by modernizing the electric grid through smart meters, storm hardening, self-healing and targeted undergrounding and applying lessons learned from previous storms to restoration efforts. The Duke Energy Registrants' electric generating facilities are designed to withstand extreme weather events without significant damage. The Duke Energy Registrants maintain an inventory of coal and oil on-site to mitigate the effects of any potential short-term disruption in fuel supply so they can continue to provide customers with an uninterrupted supply of electricity.

State Legislation

In July 2017, the North Carolina General Assembly passed House Bill 589, and it was subsequently enacted into law by the governor. The law includes, among other things, overall reform of the application of PURPA for new solar projects in the state, a requirement for the utility to procure approximately 2,600 MW of renewable energy through a competitive bidding process and recovery of costs related to the competitive bidding process through the fuel clause and a competitive procurement rider. The law stipulated certain deadlines for Duke Energy to file for NCUC approval of programs required under the law. Duke Energy has made some regulatory filings since the passage of the law and will continue to implement the requirements of House Bill 589.

In July 2018, Duke Energy issued an RFP for the first tranche of 680 MW. In accordance with the provisions of HB 589, total procurement will be changed based upon how much generation with no economic dispatch or curtailment occurs over the procurement period. Most of this type of generation is solar procured under PURPA. Based upon the current forecasted amount of such generation that will occur over procurement period, Duke Energy estimates the total under HB 589 competitive procurement will be approximately 1,500 to 2,000 MW.

In various states, legislation is being considered to allow third-party sales of electricity. Deregulation or restructuring in the electric industry may result in increased competition and unrecovered costs. The Duke Energy Registrants cannot predict the outcome of these initiatives.

Liquefied Natural Gas Facility

Piedmont Natural Gas plans to build a liquefied natural gas facility in Robeson County, North Carolina. The project is expected to be completed in the summer of 2021 at a cost of \$250 million. Construction will begin in the summer of 2019.

New Accounting Standards

See Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies," for a discussion of the impact of new accounting standards.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

See "Management's Discussion and Analysis of Results of Operations and Financial Condition — Quantitative and Qualitative Disclosures About Market Risk."

PART II

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

Duke Energy

Report of Independent Registered Public Accounting Firm	66
Consolidated Statements of Operations	67
Consolidated Statements of Comprehensive Income	68
Consolidated Balance Sheets	69
Consolidated Statements of Cash Flows	71
Consolidated Statements of Changes in Equity	73

Duke Energy Carolinas

Report of Independent Registered Public Accounting Firm	74
Consolidated Statements of Operations and Comprehensive Income	75
Consolidated Balance Sheets	76
Consolidated Statements of Cash Flows	77
Consolidated Statements of Changes in Equity	78

Progress Energy

Report of Independent Registered Public Accounting Firm	79
Consolidated Statements of Operations and Comprehensive Income	80
Consolidated Balance Sheets	81
Consolidated Statements of Cash Flows	83
Consolidated Statements of Changes in Equity	85

Duke Energy Progress

Report of Independent Registered Public Accounting Firm	86
Consolidated Statements of Operations and Comprehensive Income	87
Consolidated Balance Sheets	88
Consolidated Statements of Cash Flows	89
Consolidated Statements of Changes in Equity	90

Duke Energy Florida

Report of Independent Registered Public Accounting Firm	91
Consolidated Statements of Operations and Comprehensive Income	92
Consolidated Balance Sheets	93
Consolidated Statements of Cash Flows	94
Consolidated Statements of Changes in Equity	95

Duke Energy Ohio

Report of Independent Registered Public Accounting Firm	96
Consolidated Statements of Operations and Comprehensive Income	97
Consolidated Balance Sheets	98
Consolidated Statements of Cash Flows	99
Consolidated Statements of Changes in Equity	100

Duke Energy Indiana

Report of Independent Registered Public Accounting Firm	101
Consolidated Statements of Operations and Comprehensive Income	102
Consolidated Balance Sheets	103
Consolidated Statements of Cash Flows	104
Consolidated Statements of Changes in Equity	105

Piedmont

Report of Independent Registered Public Accounting Firm	106
Consolidated Statements of Operations and Comprehensive Income	107
Consolidated Balance Sheets	108
Consolidated Statements of Cash Flows	109
Consolidated Statements of Changes in Equity	110

Combined Notes to Consolidated Financial Statements

Note 1 – Summary of Significant Accounting Policies	111
Note 2 – Acquisitions and Dispositions	120
Note 3 – Business Segments	122
Note 4 – Regulatory Matters	126
Note 5 – Commitments and Contingencies	146
Note 6 – Debt and Credit Facilities	153
Note 7 – Guarantees and Indemnifications	159
Note 8 – Joint Ownership of Generating and Transmission Facilities	160
Note 9 – Asset Retirement Obligations	160
Note 10 – Property, Plant and Equipment	162
Note 11 – Goodwill and Intangible Assets	164
Note 12 – Investments in Unconsolidated Affiliates	165
Note 13 – Related Party Transactions	167
Note 14 – Derivatives and Hedging	168
Note 15 – Investments in Debt and Equity Securities	173
Note 16 – Fair Value Measurements	179
Note 17 – Variable Interest Entities	186
Note 18 – Revenue	190
Note 19 – Common Stock	193
Note 20 – Severance	194
Note 21 – Stock-Based Compensation	195
Note 22 – Employee Benefit Plans	197
Note 23 – Income Taxes	216
Note 24 – Other Income and Expenses, Net	224
Note 25 – Subsequent Events	224
Note 26 – Quarterly Financial Data (Unaudited)	225

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Step 13 2021

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholders and the Board of Directors of
Duke Energy Corporation

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Corporation and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations, comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2018, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2018, based on criteria established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated February 28, 2019, expressed an unqualified opinion on the Company's internal control over financial reporting.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

We have served as the Company's auditor since 1947.

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Step 13 2021

PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF OPERATIONS

(in millions, except per share amounts)	Years Ended December 31,		
	2018	2017	2016
Operating Revenues			
Regulated electric	\$22,097	\$21,177	\$21,221
Regulated natural gas	1,773	1,734	863
Nonregulated electric and other	651	654	659
Total operating revenues	24,521	23,565	22,743
Operating Expenses			
Fuel used in electric generation and purchased power	6,831	6,350	6,625
Cost of natural gas	697	632	265
Operation, maintenance and other	6,463	5,944	6,224
Depreciation and amortization	4,074	3,527	3,294
Property and other taxes	1,280	1,233	1,142
Impairment charges	402	282	18
Total operating expenses	19,747	17,968	17,568
(Losses) Gains on Sales of Other Assets and Other, net	(89)	28	27
Operating Income	4,685	5,625	5,202
Other Income and Expenses			
Equity in earnings (losses) of unconsolidated affiliates	83	119	(15)
Other income and expenses, net	399	508	463
Total other income and expenses	482	627	448
Interest Expense	2,094	1,986	1,916
Income From Continuing Operations Before Income Taxes	3,073	4,266	3,734
Income Tax Expense From Continuing Operations	448	1,196	1,156
Income From Continuing Operations	2,625	3,070	2,578
Income (Loss) From Discontinued Operations, net of tax	19	(6)	(408)
Net Income	2,644	3,064	2,170
Less: Net (Loss) Income Attributable to Noncontrolling Interests	(22)	5	18
Net Income Attributable to Duke Energy Corporation	\$ 2,666	\$ 3,059	\$ 2,152
Earnings Per Share – Basic and Diluted			
Income from continuing operations attributable to Duke Energy Corporation common stockholders			
Basic	\$ 3.73	\$ 4.37	\$ 3.71
Diluted	\$ 3.73	\$ 4.37	\$ 3.71
Income (Loss) from discontinued operations attributable to Duke Energy Corporation common stockholders			
Basic	\$ 0.03	\$ (0.01)	\$ (0.60)
Diluted	\$ 0.03	\$ (0.01)	\$ (0.60)
Net income attributable to Duke Energy Corporation common stockholders			
Basic	\$ 3.76	\$ 4.36	\$ 3.11
Diluted	\$ 3.76	\$ 4.36	\$ 3.11
Weighted average shares outstanding			
Basic	708	700	691
Diluted	708	700	691

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2018	2017	2016
Net Income	\$ 2,644	\$ 3,064	\$ 2,170
Other Comprehensive (Loss) Income, net of tax			
Foreign currency translation adjustments	—	—	694
Pension and OPEB adjustments	(6)	3	(11)
Net unrealized (losses) gains on cash flow hedges	(10)	2	17
Reclassification into earnings from cash flow hedges	6	8	13
Unrealized (losses) gains on available-for-sale securities	(3)	13	2
Other Comprehensive (Loss) Income, net of tax	(13)	26	715
Comprehensive Income	2,631	3,090	2,885
Less: Comprehensive (Loss) Income Attributable to Noncontrolling Interests	(22)	5	20
Comprehensive Income Attributable to Duke Energy Corporation	\$ 2,653	\$ 3,085	\$ 2,865

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY CORPORATION

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 442	\$ 358
Receivables (net of allowance for doubtful accounts of \$16 at 2018 and \$14 at 2017)	962	779
Receivables of VIEs (net of allowance for doubtful accounts of \$55 at 2018 and \$54 at 2017)	2,172	1,995
Inventory	3,084	3,250
Regulatory assets (includes \$52 at 2018 and \$51 at 2017 related to VIEs)	2,005	1,437
Other (includes \$162 at 2018 and \$214 at 2017 related to VIEs)	1,049	634
Total current assets	9,714	8,453
Property, Plant and Equipment		
Cost	134,458	127,507
Accumulated depreciation and amortization	(43,126)	(41,537)
Generation facilities to be retired, net	362	421
Net property, plant and equipment	91,694	86,391
Other Noncurrent Assets		
Goodwill	19,303	19,396
Regulatory assets (includes \$1,041 at 2018 and \$1,091 at 2017 related to VIEs)	13,617	12,442
Nuclear decommissioning trust funds	6,720	7,097
Investments in equity method unconsolidated affiliates	1,409	1,175
Other	2,935	2,960
Total other noncurrent assets	43,984	43,070
Total Assets	\$145,392	\$137,914

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY CORPORATION

CONSOLIDATED BALANCE SHEETS – (Continued)

(in millions)	December 31,	
	2018	2017
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 3,487	\$ 3,043
Notes payable and commercial paper	3,410	2,163
Taxes accrued	577	551
Interest accrued	559	525
Current maturities of long-term debt (includes \$227 at 2018 and \$225 at 2017 related to VIEs)	3,406	3,244
Asset retirement obligations	919	689
Regulatory liabilities	598	402
Other	2,085	1,865
Total current liabilities	15,041	12,482
Long-Term Debt (includes \$3,998 at 2018 and \$4,306 at 2017 related to VIEs)	51,123	49,035
Other Noncurrent Liabilities		
Deferred income taxes	7,806	6,621
Asset retirement obligations	9,548	9,486
Regulatory liabilities	14,834	15,330
Accrued pension and other post-retirement benefit costs	988	1,103
Investment tax credits	568	539
Other (includes \$212 at 2018 and \$241 at 2017 related to VIEs)	1,650	1,581
Total other noncurrent liabilities	35,394	34,660
Commitments and Contingencies		
Equity		
Common stock, \$0.001 par value, 2 billion shares authorized; 727 million shares outstanding at 2018 and 700 million shares outstanding at 2017	1	1
Additional paid-in capital	40,795	38,792
Retained earnings	3,113	3,013
Accumulated other comprehensive loss	(92)	(67)
Total Duke Energy Corporation stockholders' equity	43,817	41,739
Noncontrolling interests	17	(2)
Total equity	43,834	41,737
Total Liabilities and Equity	\$145,392	\$137,914

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 2,644	\$ 3,064	\$ 2,170
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion (including amortization of nuclear fuel)	4,696	4,046	3,880
Equity component of AFUDC	(221)	(237)	(200)
Losses (Gains) on sales of other assets	88	(33)	477
Impairment charges	402	282	212
Deferred income taxes	1,079	1,433	900
Equity in (earnings) losses of unconsolidated affiliates	(83)	(119)	15
Accrued pension and other post-retirement benefit costs	61	8	21
Contributions to qualified pension plans	(141)	(19)	(155)
Payments for asset retirement obligations	(533)	(571)	(608)
Payment for the disposal of other assets	(105)	—	—
Other rate case adjustments	37	—	—
Provision for rate refunds	425	—	—
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	22	18	34
Receivables	(345)	(83)	(372)
Inventory	156	268	272
Other current assets	(721)	(400)	(174)
Increase (decrease) in			
Accounts payable	479	(204)	296
Taxes accrued	23	149	236
Other current liabilities	270	(482)	182
Other assets	(1,008)	(436)	(186)
Other liabilities	(39)	(60)	(137)
Net cash provided by operating activities	7,186	6,624	6,863
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(9,389)	(8,052)	(7,901)
Contributions to equity method investments	(416)	(414)	(307)
Acquisitions, net of cash acquired	—	(13)	(4,778)
Return of investment capital	137	281	1
Purchases of debt and equity securities	(3,762)	(4,071)	(5,153)
Proceeds from sales and maturities of debt and equity securities	3,747	4,098	5,236
Proceeds from the sales of discontinued operations and other assets, net of cash divested	41	—	1,418
Other	(418)	(271)	(44)
Net cash used in investing activities	(10,060)	(8,442)	(11,528)

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF CASH FLOWS – (Continued)

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the:			
Issuance of long-term debt	\$ 5,299	\$ 6,909	\$ 9,238
Issuance of common stock	1,838	—	731
Payments for the redemption of long-term debt	(2,906)	(2,316)	(1,923)
Proceeds from the issuance of short-term debt with original maturities greater than 90 days	472	319	2,081
Payments for the redemption of short-term debt with original maturities greater than 90 days	(282)	(272)	(2,166)
Notes payable and commercial paper	981	(409)	(1,362)
Dividends paid	(2,471)	(2,450)	(2,332)
Other	29	1	(16)
Net cash provided by financing activities	2,960	1,782	4,251
Changes in cash and cash equivalents included in assets held for sale	—	—	474
Net increase (decrease) in cash, cash equivalents, and restricted cash	86	(36)	60
Cash, cash equivalents, and restricted cash at beginning of period	505	541	481
Cash, cash equivalents, and restricted cash at end of period	\$ 591	\$ 505	\$ 541
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 2,086	\$ 1,963	\$ 1,794
Cash (received from) paid for income taxes	(266)	4	229
Significant non-cash transactions:			
Accrued capital expenditures	1,112	1,032	1,000
Non-cash dividends	107	—	—

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Duke Energy Corporation Stockholders' Accumulated Other Comprehensive Loss										Total Equity
	Common Stock Shares	Common Stock	Additional Paid-in Capital	Retained Earnings	Foreign Currency Translation Adjustments	Net Losses on Cash Flow Hedges	Net Unrealized Gains (Losses) on Available-for-Sale Securities	Pension and OPEB Adjustments	Total Duke Energy Corporation Stockholders' Equity	Noncontrolling Interests	
Balance at December 31, 2015	688	\$ 1	\$ 37,968	\$ 2,564	\$ (692)	\$ (50)	\$ (3)	\$ (61)	\$ 39,727	\$ 44	\$ 39,771
Net income	—	—	—	2,152	—	—	—	—	2,152	18	2,170
Other comprehensive income (loss) ^(a)	—	—	—	—	692	30	2	(11)	713	2	715
Common stock issuances, including dividend reinvestment and employee benefits	12	—	773	—	—	—	—	—	773	—	773
Common stock dividends	—	—	—	(2,332)	—	—	—	—	(2,332)	—	(2,332)
Distributions to noncontrolling interest in subsidiaries	—	—	—	—	—	—	—	—	—	(6)	(6)
Other ^(b)	—	—	—	—	—	—	—	—	—	(50)	(50)
Balance at December 31, 2016	700	\$ 1	\$ 38,741	\$ 2,384	\$ —	\$ (20)	\$ (1)	\$ (72)	\$ 41,033	\$ 8	\$ 41,041
Net income	—	—	—	3,059	—	—	—	—	3,059	5	3,064
Other comprehensive income	—	—	—	—	—	10	13	3	26	—	26
Common stock issuances, including dividend reinvestment and employee benefits	—	—	51	—	—	—	—	—	51	—	51
Common stock dividends	—	—	—	(2,450)	—	—	—	—	(2,450)	—	(2,450)
Distributions to noncontrolling interest in subsidiaries	—	—	—	—	—	—	—	—	—	(2)	(2)
Other ^(c)	—	—	—	20	—	—	—	—	20	(13)	7
Balance at December 31, 2017	700	\$ 1	\$ 38,792	\$ 3,013	\$ —	\$ (10)	\$ 12	\$ (69)	\$ 41,739	\$ (2)	\$ 41,737
Net income	—	—	—	2,666	—	—	—	—	2,666	(22)	2,644
Other comprehensive (loss) income	—	—	—	—	—	(4)	(3)	(6)	(13)	—	(13)
Common stock issuances, including dividend reinvestment and employee benefits	27	—	2,003	—	—	—	—	—	2,003	—	2,003
Common stock dividends	—	—	—	(2,578)	—	—	—	—	(2,578)	—	(2,578)
Distributions to noncontrolling interests in subsidiaries	—	—	—	—	—	—	—	—	—	(1)	(1)
Other ^(d)	—	—	—	12	—	—	(12)	—	—	42	42
Balance at December 31, 2018	727	\$ 1	\$ 40,795	\$ 3,113	\$ —	\$ (14)	\$ (3)	\$ (75)	\$ 43,817	\$ 17	\$ 43,834

(a) Foreign Currency Translation Adjustments amount includes \$620 million of cumulative adjustment realized as a result of the sale of the Latin American generation business. See Note 2 to the Consolidated Financial Statements.

(b) Noncontrolling Interests amount is primarily related to the sale of the Latin American generation business. See Note 2 to the Consolidated Financial Statements.

(c) Retained Earnings relates to a cumulative-effect adjustment due to implementation of a new accounting standard related to stock-based compensation and the associated income taxes. See Note 1 to the Consolidated Financial Statements for additional information. Noncontrolling Interests relates to the purchase of remaining interest in REC Solar.

(d) Amounts in Retained Earnings and Accumulated Other Comprehensive Loss represent a cumulative-effect adjustment due to implementation of a new accounting standard related to Financial Instruments Classification and Measurement. See Note 1 for more information. Amount in Noncontrolling Interests primarily relates to tax equity financing activity in the Commercial Renewables segment.

See Notes to Consolidated Financial Statements

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PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Carolinas, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Carolinas, LLC and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2018, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

We have served as the Company's auditor since 1947.

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PART II

DUKE ENERGY CAROLINAS, LLC

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2018	2017	2016
Operating Revenues	\$ 7,300	\$ 7,302	\$ 7,322
Operating Expenses			
Fuel used in electric generation and purchased power	1,821	1,822	1,797
Operation, maintenance and other	2,130	2,021	2,158
Depreciation and amortization	1,201	1,090	1,075
Property and other taxes	295	281	276
Impairment charges	192	—	1
Total operating expenses	5,639	5,214	5,307
(Losses) Gains on Sales of Other Assets and Other, net	(1)	1	(5)
Operating Income	1,660	2,089	2,010
Other Income and Expenses, net	153	199	214
Interest Expense	439	422	424
Income Before Income Taxes	1,374	1,866	1,800
Income Tax Expense	303	652	634
Net Income	\$ 1,071	\$ 1,214	\$ 1,166
Other Comprehensive Income, net of tax			
Reclassification into earnings from cash flow hedges	1	2	2
Other Comprehensive Income, net of tax	1	2	2
Comprehensive Income	\$ 1,072	\$ 1,216	\$ 1,168

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY CAROLINAS, LLC

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 33	\$ 16
Receivables (net of allowance for doubtful accounts of \$2 at 2018 and 2017)	219	200
Receivables of VIEs (net of allowance for doubtful accounts of \$7 at 2018 and 2017)	699	640
Receivables from affiliated companies	182	95
Inventory	948	971
Regulatory assets	520	299
Other	72	19
Total current assets	2,673	2,240
Property, Plant and Equipment		
Cost	44,741	42,939
Accumulated depreciation and amortization	(15,496)	(15,063)
Net property, plant and equipment	29,245	27,876
Other Noncurrent Assets		
Regulatory assets	3,457	2,853
Nuclear decommissioning trust funds	3,558	3,772
Other	1,027	979
Total other noncurrent assets	8,042	7,604
Total Assets	\$ 39,960	\$ 37,720
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 988	\$ 842
Accounts payable to affiliated companies	230	209
Notes payable to affiliated companies	439	104
Taxes accrued	171	234
Interest accrued	102	108
Current maturities of long-term debt	6	1,205
Asset retirement obligations	290	337
Regulatory liabilities	199	126
Other	571	486
Total current liabilities	2,996	3,651
Long-Term Debt	10,633	8,598
Long-Term Debt Payable to Affiliated Companies	300	300
Other Noncurrent Liabilities		
Deferred income taxes	3,689	3,413
Asset retirement obligations	3,659	3,273
Regulatory liabilities	5,999	6,231
Accrued pension and other post-retirement benefit costs	99	95
Investment tax credits	231	232
Other	671	566
Total other noncurrent liabilities	14,348	13,810
Commitments and Contingencies		
Equity		
Member's equity	11,689	11,368
Accumulated other comprehensive loss	(6)	(7)
Total equity	11,683	11,361
Total Liabilities and Equity	\$ 39,960	\$ 37,720

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CAROLINAS, LLC

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 1,071	\$ 1,214	\$ 1,166
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization (including amortization of nuclear fuel)	1,487	1,409	1,382
Equity component of AFUDC	(73)	(106)	(102)
Losses (Gains) on sales of other assets	1	(1)	5
Impairment charges	192	—	1
Deferred income taxes	305	410	470
Accrued pension and other post-retirement benefit costs	4	(4)	4
Contributions to qualified pension plans	(46)	—	(43)
Payments for asset retirement obligations	(230)	(271)	(287)
Provision for rate refunds	182	—	—
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	2	9	5
Receivables	(86)	(9)	(76)
Receivables from affiliated companies	(87)	68	(56)
Inventory	25	78	215
Other current assets	(161)	7	67
Increase (decrease) in			
Accounts payable	168	23	(69)
Accounts payable to affiliated companies	21	(38)	18
Taxes accrued	(65)	86	187
Other current liabilities	89	(161)	63
Other assets	(179)	(49)	20
Other liabilities	(90)	(31)	6
Net cash provided by operating activities	2,530	2,634	2,976
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(2,706)	(2,524)	(2,220)
Purchases of debt and equity securities	(1,810)	(2,124)	(2,832)
Proceeds from sales and maturities of debt and equity securities	1,810	2,128	2,832
Notes receivable from affiliated companies	—	66	97
Other	(147)	(109)	(83)
Net cash used in investing activities	(2,853)	(2,563)	(2,206)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	1,983	569	1,587
Payments for the redemption of long-term debt	(1,205)	(116)	(356)
Notes payable to affiliated companies	335	104	—
Distributions to parent	(750)	(625)	(2,000)
Other	(23)	(1)	—
Net cash provided by (used in) financing activities	340	(69)	(769)
Net increase in cash and cash equivalents	17	2	1
Cash and cash equivalents at beginning of period	16	14	13
Cash and cash equivalents at end of period	\$ 33	\$ 16	\$ 14
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 452	\$ 398	\$ 393
Cash paid for (received from) income taxes	89	193	(60)
Significant non-cash transactions:			
Accrued capital expenditures	302	315	347

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CAROLINAS, LLC

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Member's Equity	Accumulated Other Comprehensive Loss	Total Equity
		Net Losses on Cash Flow Hedges	
Balance at December 31, 2015	\$11,617	\$(11)	\$11,606
Net income	1,166	—	1,166
Other comprehensive income	—	2	2
Distributions to parent	(2,000)	—	(2,000)
Other	(2)	—	(2)
Balance at December 31, 2016	\$10,781	\$ (9)	\$10,772
Net income	1,214	—	1,214
Other comprehensive income	—	2	2
Distributions to parent	(625)	—	(625)
Other	(2)	—	(2)
Balance at December 31, 2017	\$11,368	\$ (7)	\$11,361
Net income	1,071	—	1,071
Other comprehensive income	—	1	1
Distributions to parent	(750)	—	(750)
Balance at December 31, 2018	\$11,689	\$ (6)	\$11,683

See Notes to Consolidated Financial Statements

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PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Progress Energy, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Progress Energy, Inc. and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2018, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

We have served as the Company's auditor since 1930.

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PART II

PROGRESS ENERGY, INC.

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2018	2017	2016
Operating Revenues	\$ 10,728	\$ 9,783	\$ 9,853
Operating Expenses			
Fuel used in electric generation and purchased power	3,976	3,417	3,644
Operation, maintenance and other	2,613	2,301	2,458
Depreciation and amortization	1,619	1,285	1,213
Property and other taxes	529	503	487
Impairment charges	87	156	7
Total operating expenses	8,824	7,662	7,809
Gains on Sales of Other Assets and Other, net	24	26	25
Operating Income	1,928	2,147	2,069
Other Income and Expenses, net	165	209	186
Interest Expense	842	824	689
Income From Continuing Operations Before Income Taxes	1,251	1,532	1,566
Income Tax Expense From Continuing Operations	218	264	527
Income From Continuing Operations	1,033	1,268	1,039
Income From Discontinued Operations, net of tax	—	—	2
Net Income	1,033	1,268	1,041
Less: Net Income Attributable to Noncontrolling Interests	6	10	10
Net Income Attributable to Parent	\$ 1,027	\$ 1,258	\$ 1,031
Net Income	\$ 1,033	\$ 1,268	\$ 1,041
Other Comprehensive Income, net of tax			
Pension and OPEB adjustments	5	4	1
Net unrealized gain on cash flow hedges	6	5	—
Reclassification into earnings from cash flow hedges	—	—	8
Unrealized (losses) gains on available-for-sale securities	(1)	4	1
Other Comprehensive Income, net of tax	10	13	10
Comprehensive Income	1,043	1,281	1,051
Less: Comprehensive Income Attributable to Noncontrolling Interests	6	10	10
Comprehensive Income Attributable to Parent	\$ 1,037	\$ 1,271	\$ 1,041

See Notes to Consolidated Financial Statements

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PART II

PROGRESS ENERGY, INC.

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 67	\$ 40
Receivables (net of allowance for doubtful accounts of \$5 at 2018 and \$4 at 2017)	220	123
Receivables of VIEs (net of allowance for doubtful accounts of \$8 at 2018 and \$7 at 2017)	909	780
Receivables from affiliated companies	168	31
Notes receivable from affiliated companies	—	240
Inventory	1,459	1,592
Regulatory assets (includes \$52 at 2018 and \$51 at 2017 related to VIEs)	1,137	741
Other (includes \$39 at 2018 and \$44 at 2017 related to VIEs)	125	334
Total current assets	4,085	3,881
Property, Plant and Equipment		
Cost	50,260	47,323
Accumulated depreciation and amortization	(16,398)	(15,857)
Generation facilities to be retired, net	362	421
Net property, plant and equipment	34,224	31,887
Other Noncurrent Assets		
Goodwill	3,655	3,655
Regulatory assets (includes \$1,041 at 2018 and \$1,091 at 2017 related to VIEs)	6,564	6,010
Nuclear decommissioning trust funds	3,162	3,324
Other	974	931
Total other noncurrent assets	14,355	13,920
Total Assets	\$ 52,664	\$ 49,688

See Notes to Consolidated Financial Statements

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PART II

PROGRESS ENERGY, INC.

CONSOLIDATED BALANCE SHEETS – (Continued)

(in millions)	December 31,	
	2018	2017
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 1,172	\$ 1,006
Accounts payable to affiliated companies	360	251
Notes payable to affiliated companies	1,235	805
Taxes accrued	109	101
Interest accrued	246	212
Current maturities of long-term debt (includes \$53 at 2018 and 2017 related to VIEs)	1,672	771
Asset retirement obligations	514	295
Regulatory liabilities	280	213
Other	821	729
Total current liabilities	6,409	4,383
Long-Term Debt (includes \$1,636 at 2018 and \$1,689 at 2017 related to VIEs)	17,089	16,916
Long-Term Debt Payable to Affiliated Companies	150	150
Other Noncurrent Liabilities		
Deferred income taxes	3,941	3,502
Asset retirement obligations	4,897	5,119
Regulatory liabilities	5,049	5,306
Accrued pension and other post-retirement benefit costs	521	545
Other	351	302
Total other noncurrent liabilities	14,759	14,774
Commitments and Contingencies		
Equity		
Common stock, \$0.01 par value, 100 shares authorized and outstanding at 2018 and 2017	—	—
Additional paid-in capital	9,143	9,143
Retained earnings	5,131	4,350
Accumulated other comprehensive loss	(20)	(25)
Total Progress Energy, Inc. stockholder's equity	14,254	13,468
Noncontrolling interests	3	(3)
Total equity	14,257	13,465
Total Liabilities and Equity	\$ 52,664	\$ 49,688

See Notes to Consolidated Financial Statements

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PART II

PROGRESS ENERGY, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 1,033	\$ 1,268	\$ 1,041
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion (including amortization of nuclear fuel)	1,987	1,516	1,435
Equity component of AFUDC	(104)	(92)	(76)
Gains on sales of other assets	(24)	(28)	(34)
Impairment charges	87	156	7
Deferred income taxes	358	703	532
Accrued pension and other post-retirement benefit costs	24	(28)	(24)
Contributions to qualified pension plans	(45)	—	(43)
Payments for asset retirement obligations	(230)	(248)	(270)
Other rate case adjustments	37	—	—
Provision for rate refunds	122	—	—
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	18	—	42
Receivables	(207)	(89)	7
Receivables from affiliated companies	(137)	71	211
Inventory	121	125	35
Other current assets	(12)	(397)	50
Increase (decrease) in			
Accounts payable	217	(260)	252
Accounts payable to affiliated companies	109	(97)	37
Taxes accrued	8	17	15
Other current liabilities	129	(166)	(42)
Other assets	(913)	(300)	(248)
Other liabilities	(34)	(98)	(36)
Net cash provided by operating activities	2,544	2,053	2,891
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(3,854)	(3,152)	(3,306)
Asset Acquisitions	—	—	(10)
Purchases of debt and equity securities	(1,753)	(1,806)	(2,143)
Proceeds from sales and maturities of debt and equity securities	1,769	1,824	2,187
Net proceeds from sales of other assets	20	—	—
Proceeds from insurance	—	7	58
Proceeds from the sale of nuclear fuel	—	20	20
Notes receivable from affiliated companies	240	(160)	(80)
Other	(182)	(86)	47
Net cash used in investing activities	(3,760)	(3,353)	(3,227)

See Notes to Consolidated Financial Statements

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PART II

PROGRESS ENERGY, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS – (Continued)

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	\$ 1,833	\$ 2,118	\$ 2,375
Payments for the redemption of long-term debt	(771)	(813)	(327)
Notes payable to affiliated companies	430	100	444
Dividends to parent	(250)	(124)	(2,098)
Other	(1)	(4)	(3)
Net cash provided by financing activities	1,241	1,277	391
Net increase (decrease) in cash, cash equivalents, and restricted cash	25	(23)	55
Cash, cash equivalents, and restricted cash at beginning of period	87	110	55
Cash, cash equivalents, and restricted cash at end of period	\$ 112	\$ 87	\$ 110
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 798	\$ 773	\$ 673
Cash received from income taxes	(348)	(146)	(187)
Significant non-cash transactions:			
Accrued capital expenditures	478	391	317
Equitization of certain notes payable to affiliates	—	1,047	—
Dividend to parent related to a legal entity restructuring	—	547	—

See Notes to Consolidated Financial Statements

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PART II

PROGRESS ENERGY, INC.

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Accumulated Other Comprehensive Loss					Total Progress Energy, Inc. Stockholder's Equity	Noncontrolling Interests	Total Equity
	Additional Paid-in Capital	Retained Earnings	Net Losses on Cash Flow Hedges	Net Unrealized Gains (Losses) on Available-for-Sale Securities	Pension and OPEB Adjustments			
Balance at December 31, 2015	\$ 8,092	\$ 4,831	\$ (31)	\$ —	\$ (17)	\$ 12,875	\$ (22)	\$ 12,853
Net income	—	1,031	—	—	—	1,031	10	1,041
Other comprehensive income	—	—	8	1	1	10	—	10
Distributions to noncontrolling interests	—	—	—	—	—	—	(1)	(1)
Dividends to parent	—	(2,098)	—	—	—	(2,098)	—	(2,098)
Other	2	—	—	—	—	2	—	2
Balance at December 31, 2016	\$ 8,094	\$ 3,764	\$ (23)	\$ 1	\$ (16)	\$ 11,820	\$ (13)	\$ 11,807
Net income	—	1,258	—	—	—	1,258	10	1,268
Other comprehensive income	—	—	5	4	4	13	—	13
Dividends to parent ^(a)	—	(672)	—	—	—	(672)	—	(672)
Equitization of certain notes payable to affiliates	1,047	—	—	—	—	1,047	—	1,047
Other	2	—	—	—	—	2	—	2
Balance at December 31, 2017	\$ 9,143	\$ 4,350	\$ (18)	\$ 5	\$ (12)	\$ 13,468	\$ (3)	\$ 13,465
Net income	—	1,027	—	—	—	1,027	6	1,033
Other comprehensive income (loss)	—	—	6	(1)	5	10	—	10
Distributions to noncontrolling interests	—	—	—	—	—	—	(1)	(1)
Dividends to parent	—	(250)	—	—	—	(250)	—	(250)
Other ^(b)	—	4	—	(5)	—	(1)	1	—
Balance at December 31, 2018	\$ 9,143	\$ 5,131	\$ (12)	\$ (1)	\$ (7)	\$ 14,254	\$ 3	\$ 14,257

(a) Includes a \$547 million non-cash dividend related to a legal entity restructuring.

(b) Amounts in Retained Earnings and Accumulated Other Comprehensive Loss represent a cumulative-effect adjustment due to implementation of a new accounting standard related to Financial Instruments Classification and Measurement. See Note 1 for more information.

See Notes to Consolidated Financial Statements

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PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Progress, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Progress, LLC and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2018, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

We have served as the Company's auditor since 1930.

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PART II

DUKE ENERGY PROGRESS, LLC

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2018	2017	2016
Operating Revenues	\$5,699	\$5,129	\$5,277
Operating Expenses			
Fuel used in electric generation and purchased power	1,892	1,609	1,830
Operation, maintenance and other	1,578	1,439	1,565
Depreciation and amortization	991	725	703
Property and other taxes	155	156	156
Impairment charges	33	19	1
Total operating expenses	4,649	3,948	4,255
Gains on Sales of Other Assets and Other, net	9	4	3
Operating Income	1,059	1,185	1,025
Other Income and Expenses, net	87	115	132
Interest Expense	319	293	257
Income Before Income Taxes	827	1,007	900
Income Tax Expense	160	292	301
Net Income and Comprehensive Income	\$ 667	\$ 715	\$ 599

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY PROGRESS, LLC

CONSOLIDATED BALANCE SHEETS

	December 31,	
(in millions)	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 23	\$ 20
Receivables (net of allowance for doubtful accounts of \$2 at 2018 and \$1 at 2017)	75	56
Receivables of VIEs (net of allowance for doubtful accounts of \$5 at 2018 and 2017)	547	459
Receivables from affiliated companies	23	3
Inventory	954	1,017
Regulatory assets	703	352
Other	62	97
Total current assets	2,387	2,004
Property, Plant and Equipment		
Cost	31,459	29,583
Accumulated depreciation and amortization	(11,423)	(10,903)
Generation facilities to be retired, net	362	421
Net property, plant and equipment	20,398	19,101
Other Noncurrent Assets		
Regulatory assets	4,111	3,507
Nuclear decommissioning trust funds	2,503	2,588
Other	612	599
Total other noncurrent assets	7,226	6,694
Total Assets	\$ 30,011	\$ 27,799
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 660	\$ 402
Accounts payable to affiliated companies	278	179
Notes payable to affiliated companies	294	240
Taxes accrued	53	64
Interest accrued	116	102
Current maturities of long-term debt	603	3
Asset retirement obligations	509	295
Regulatory liabilities	178	139
Other	408	376
Total current liabilities	3,099	1,800
Long-Term Debt	7,451	7,204
Long-Term Debt Payable to Affiliated Companies	150	150
Other Noncurrent Liabilities		
Deferred income taxes	2,119	1,883
Asset retirement obligations	4,311	4,378
Regulatory liabilities	3,955	3,999
Accrued pension and other post-retirement benefit costs	237	248
Investment tax credits	142	143
Other	106	45
Total other noncurrent liabilities	10,870	10,696
Commitments and Contingencies		
Equity		
Member's Equity	8,441	7,949
Total Liabilities and Equity	\$ 30,011	\$ 27,799

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY PROGRESS, LLC

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 667	\$ 715	\$ 599
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization (including amortization of nuclear fuel)	1,183	936	907
Equity component of AFUDC	(57)	(47)	(50)
Gains on sales of other assets	(9)	(5)	(6)
Impairment charges	33	19	1
Deferred income taxes	236	384	384
Accrued pension and other post-retirement benefit costs	15	(20)	(32)
Contributions to qualified pension plans	(25)	—	(24)
Payments for asset retirement obligations	(195)	(192)	(212)
Other rate case adjustments	37	—	—
Provisions for rate refunds	122	—	—
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	5	(4)	4
Receivables	(107)	(58)	(17)
Receivables from affiliated companies	(20)	2	11
Inventory	63	59	12
Other current assets	(201)	(75)	84
Increase (decrease) in			
Accounts payable	219	(230)	181
Accounts payable to affiliated companies	99	(48)	37
Taxes accrued	(11)	(39)	90
Other current liabilities	46	(131)	114
Other assets	(484)	(53)	(163)
Other liabilities	12	(18)	12
Net cash provided by operating activities	1,628	1,195	1,932
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(2,220)	(1,715)	(1,733)
Purchases of debt and equity securities	(1,236)	(1,249)	(1,658)
Proceeds from sales and maturities of debt and equity securities	1,206	1,207	1,615
Net proceeds from the sales of other assets	20	—	—
Proceeds from insurance	—	4	—
Notes receivable from affiliated companies	—	165	(165)
Other	(115)	(55)	26
Net cash used in investing activities	(2,345)	(1,643)	(1,915)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	845	812	505
Payments for the redemption of long-term debt	(3)	(470)	(15)
Notes payable to affiliated companies	54	240	(209)
Distributions to parent	(175)	(124)	(300)
Other	(1)	(1)	(2)
Net cash provided by (used in) financing activities	720	457	(21)
Net increase (decrease) in cash and cash equivalents	3	9	(4)
Cash and cash equivalents at beginning of period	20	11	15
Cash and cash equivalents at end of period	\$ 23	\$ 20	\$ 11
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 303	\$ 291	\$ 248
Cash (received from) paid for income taxes	(112)	59	(287)
Significant non-cash transactions:			
Accrued capital expenditures	220	191	147

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY PROGRESS, LLC

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Member's Equity
Balance at December 31, 2015	\$7,059
Net income	599
Distribution to parent	(300)
Balance at December 31, 2016	\$7,358
Net income	715
Distribution to parent	(124)
Balance at December 31, 2017	\$7,949
Net income	667
Distribution to parent	(175)
Balance at December 31, 2018	\$8,441

See Notes to Consolidated Financial Statements

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PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Florida, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Florida, LLC and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2018, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

We have served as the Company's auditor since 2001.

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PART II

DUKE ENERGY FLORIDA, LLC

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2018	2017	2016
Operating Revenues	\$ 5,021	\$ 4,646	\$ 4,568
Operating Expenses			
Fuel used in electric generation and purchased power	2,085	1,808	1,814
Operation, maintenance and other	1,025	853	884
Depreciation and amortization	628	560	509
Property and other taxes	374	347	333
Impairment charges	54	138	6
Total operating expenses	4,166	3,706	3,546
Gains on Sales of Other Assets and Other, net	1	1	—
Operating Income	856	941	1,022
Other Income and Expenses, net	86	96	63
Interest Expense	287	279	212
Income Before Income Taxes	655	758	873
Income Tax Expense	101	46	322
Net Income	\$ 554	\$ 712	\$ 551
Other Comprehensive (Loss) Income, net of tax			
Unrealized (losses) gains on available-for-sale securities	(1)	3	1
Other Comprehensive (Loss) Income, net of tax	(1)	3	1
Comprehensive Income	\$ 553	\$ 715	\$ 552

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY FLORIDA, LLC

CONSOLIDATED BALANCE SHEETS

	December 31,	
(in millions)	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 36	\$ 13
Receivables (net of allowance for doubtful accounts of \$3 at 2018 and 2017)	143	65
Receivables of VIEs (net of allowance for doubtful accounts of \$3 at 2018 and \$2 at 2017)	362	321
Receivables from affiliated companies	28	2
Notes receivable from affiliated companies	—	313
Inventory	504	574
Regulatory assets (includes \$52 at 2018 and \$51 at 2017 related to VIEs)	434	389
Other (includes \$39 at 2018 and \$40 at 2017 related to VIEs)	46	86
Total current assets	1,553	1,763
Property, Plant and Equipment		
Cost	18,792	17,730
Accumulated depreciation and amortization	(4,968)	(4,947)
Net property, plant and equipment	13,824	12,783
Other Noncurrent Assets		
Regulatory assets (includes \$1,041 at 2018 and \$1,091 at 2017 related to VIEs)	2,454	2,503
Nuclear decommissioning trust funds	659	736
Other	311	284
Total other noncurrent assets	3,424	3,523
Total Assets	\$ 18,801	\$ 18,069
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 511	\$ 602
Accounts payable to affiliated companies	91	74
Notes payable to affiliated companies	108	—
Taxes accrued	74	34
Interest accrued	75	56
Current maturities of long-term debt (includes \$53 at 2018 and 2017 related to VIEs)	270	768
Asset retirement obligations	5	—
Regulatory liabilities	102	74
Other	406	334
Total current liabilities	1,642	1,942
Long-Term Debt (includes \$1,336 at 2018 and \$1,389 at 2017 related to VIEs)	7,051	6,327
Other Noncurrent Liabilities		
Deferred income taxes	1,986	1,761
Asset retirement obligations	586	742
Regulatory liabilities	1,094	1,307
Accrued pension and other post-retirement benefit costs	254	264
Other	93	108
Total other noncurrent liabilities	4,013	4,182
Commitments and Contingencies		
Equity		
Member's equity	6,097	5,614
Accumulated other comprehensive income	(2)	4
Total equity	6,095	5,618
Total Liabilities and Equity	\$ 18,801	\$ 18,069

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY FLORIDA, LLC

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 554	\$ 712	\$ 551
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion	793	570	516
Equity component of AFUDC	(47)	(45)	(26)
Gains on sales of other assets	(1)	(1)	—
Impairment charges	54	138	6
Deferred income taxes	159	245	224
Accrued pension and other post-retirement benefit costs	5	(13)	2
Contributions to qualified pension plans	(20)	—	(20)
Payments for asset retirement obligations	(35)	(56)	(58)
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	7	5	38
Receivables	(100)	(38)	23
Receivables from affiliated companies	(26)	—	21
Inventory	58	66	23
Other current assets	59	(138)	(86)
Increase (decrease) in			
Accounts payable	(1)	(32)	71
Accounts payable to affiliated companies	17	(51)	9
Taxes accrued	40	1	(117)
Other current liabilities	82	(37)	(149)
Other assets	(428)	(229)	(84)
Other liabilities	(61)	(82)	(53)
Net cash provided by operating activities	1,109	1,015	891
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(1,634)	(1,437)	(1,583)
Purchases of debt and equity securities	(517)	(557)	(485)
Proceeds from sales and maturities of debt and equity securities	563	617	572
Proceeds from insurance	—	4	58
Proceeds from the sale of nuclear fuel	—	20	20
Notes receivable from affiliated companies	313	(313)	—
Other	(65)	(31)	21
Net cash used in investing activities	(1,340)	(1,697)	(1,397)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	988	1,306	1,870
Payments for the redemption of long-term debt	(769)	(342)	(12)
Notes payable to affiliated companies	108	(297)	(516)
Distribution to parent	(75)	—	(775)
Other	1	(1)	—
Net cash provided by financing activities	253	666	567
Net increase (decrease) in cash, cash equivalents, and restricted cash	22	(16)	61
Cash, cash equivalents, and restricted cash at beginning of period	53	69	8
Cash, cash equivalents, and restricted cash at end of period	\$ 75	\$ 53	\$ 69
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 270	\$ 274	\$ 208
Cash (received from) paid for income taxes	(120)	(197)	216
Significant non-cash transactions:			
Accrued capital expenditures	258	199	170

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY FLORIDA, LLC

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Member's Equity	Accumulated Other Comprehensive Income (Loss)	Total Equity
		Net Unrealized Gains (Losses) on Available-for- Sale Securities	
Balance at December 31, 2015	\$ 5,121	\$ —	\$ 5,121
Net income	551	—	551
Other comprehensive income	—	1	1
Distribution to parent	(775)	—	(775)
Other	2	—	2
Balance at December 31, 2016	\$ 4,899	\$ 1	\$ 4,900
Net income	712	—	712
Other comprehensive income	—	3	3
Other	3	—	3
Balance at December 31, 2017	\$ 5,614	\$ 4	\$ 5,618
Net income	554	—	554
Other comprehensive loss	—	(1)	(1)
Distribution to parent	(75)	—	(75)
Other ^(a)	4	(5)	(1)
Balance at December 31, 2018	\$ 6,097	\$ (2)	\$ 6,095

(a) Amounts represent a cumulative-effect adjustment due to implementation of a new accounting standard related to Financial Instruments Classification and Measurement. See Note 1 for more information.

See Notes to Consolidated Financial Statements

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Ohio, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Ohio, Inc. and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2018, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

We have served as the Company's auditor since 2002.

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PART II

DUKE ENERGY OHIO, INC.

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2018	2017	2016
Operating Revenues			
Regulated electric	\$1,450	\$1,373	\$1,410
Regulated natural gas	506	508	503
Nonregulated electric and other	1	42	31
Total operating revenues	1,957	1,923	1,944
Operating Expenses			
Fuel used in electric generation and purchased power – regulated	412	369	442
Fuel used in electric generation and purchased power – nonregulated	—	58	51
Cost of natural gas	113	107	103
Operation, maintenance and other	480	530	514
Depreciation and amortization	268	261	233
Property and other taxes	290	278	258
Impairment charges	—	1	—
Total operating expenses	1,563	1,604	1,601
(Losses) Gains on Sales of Other Assets and Other, net	(106)	1	2
Operating Income	288	320	345
Other Income and Expenses, net	23	23	11
Interest Expense	92	91	86
Income From Continuing Operations Before Income Taxes	219	252	270
Income Tax Expense From Continuing Operations	43	59	78
Income From Continuing Operations	176	193	192
(Loss) Income From Discontinued Operations, net of tax	—	(1)	36
Net Income and Comprehensive Income	\$ 176	\$ 192	\$ 228

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY OHIO, INC.

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 21	\$ 12
Receivables (net of allowance for doubtful accounts of \$2 at 2018 and \$3 at 2017)	102	68
Receivables from affiliated companies	114	133
Notes receivable from affiliated companies	—	14
Inventory	126	133
Regulatory assets	33	49
Other	24	39
Total current assets	420	448
Property, Plant and Equipment		
Cost	9,360	8,732
Accumulated depreciation and amortization	(2,717)	(2,691)
Net property, plant and equipment	6,643	6,041
Other Noncurrent Assets		
Goodwill	920	920
Regulatory assets	531	445
Other	41	21
Total other noncurrent assets	1,492	1,386
Total Assets	\$ 8,555	\$ 7,875
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 316	\$ 313
Accounts payable to affiliated companies	78	62
Notes payable to affiliated companies	274	29
Taxes accrued	202	190
Interest accrued	22	21
Current maturities of long-term debt	551	3
Asset retirement obligations	6	3
Regulatory liabilities	57	36
Other	74	71
Total current liabilities	1,580	728
Long-Term Debt	1,589	2,039
Long-Term Debt Payable to Affiliated Companies	25	25
Other Noncurrent Liabilities		
Deferred income taxes	817	781
Asset retirement obligations	87	81
Regulatory liabilities	840	891
Accrued pension and other post-retirement benefit costs	79	59
Other	93	108
Total other noncurrent liabilities	1,916	1,920
Commitments and Contingencies		
Equity		
Common stock, \$8.50 par value, 120 million shares authorized; 90 million shares outstanding at 2018 and 2017	762	762
Additional paid-in capital	2,776	2,670
Accumulated deficit	(93)	(269)
Total equity	3,445	3,163
Total Liabilities and Equity	\$ 8,555	\$ 7,875

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY OHIO, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 176	\$ 192	\$ 228
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion	271	265	237
Equity component of AFUDC	(11)	(11)	(6)
Losses (Gains) on sales of other assets	106	(1)	(2)
Impairment charges	—	1	—
Deferred income taxes	25	90	55
Accrued pension and other post-retirement benefit costs	3	2	6
Contributions to qualified pension plans	—	(4)	(5)
Payments for asset retirement obligations	(3)	(7)	(5)
Provision for rate refunds	24	—	—
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	—	—	(2)
Receivables	(33)	2	(4)
Receivables from affiliated companies	19	(4)	(36)
Inventory	7	6	(32)
Other current assets	16	(22)	79
Increase (decrease) in			
Accounts payable	(19)	12	19
Accounts payable to affiliated companies	16	(1)	10
Taxes accrued	12	11	3
Other current liabilities	14	(19)	(54)
Other assets	(26)	(28)	(35)
Other liabilities	(27)	(5)	(31)
Net cash provided by operating activities	570	479	425
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(827)	(686)	(476)
Notes receivable from affiliated companies	14	80	(94)
Other	(89)	(41)	(30)
Net cash used in investing activities	(902)	(647)	(600)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	99	182	341
Payments for the redemption of long-term debt	(3)	(2)	(53)
Notes payable to affiliated companies	245	13	(87)
Dividends to parent	—	(25)	(25)
Other	—	(1)	(2)
Net cash provided by financing activities	341	167	174
Net increase (decrease) in cash and cash equivalents	9	(1)	(1)
Cash and cash equivalents at beginning of period	12	13	14
Cash and cash equivalents at end of period	\$ 21	\$ 12	\$ 13
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 87	\$ 85	\$ 81
Cash received from income taxes	(6)	(8)	(46)
Significant non-cash transactions:			
Accrued capital expenditures	95	82	83
Non-cash equity contribution from parent	106	—	—

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY OHIO, INC.

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Common Stock	Additional Paid-in Capital	Accumulated Deficit	Total Equity
Balance at December 31, 2015	\$762	\$ 2,720	\$(698)	\$ 2,784
Net income	—	—	228	228
Contribution from parent	—	—	9	9
Dividends to parent	—	(25)	—	(25)
Balance at December 31, 2016	\$762	\$ 2,695	\$(461)	\$ 2,996
Net income	—	—	192	192
Dividends to parent	—	(25)	—	(25)
Balance at December 31, 2017	\$762	\$ 2,670	\$(269)	\$ 3,163
Net income	—	—	176	176
Contribution from parent	—	106	—	106
Balance at December 31, 2018	\$762	\$ 2,776	\$ (93)	\$ 3,445

See Notes to Consolidated Financial Statements

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PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Indiana, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Indiana, LLC and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2018, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

We have served as the Company's auditor since 2002.

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PART II

DUKE ENERGY INDIANA, LLC

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2018	2017	2016
Operating Revenues	\$ 3,059	\$ 3,047	\$ 2,958
Operating Expenses			
Fuel used in electric generation and purchased power	1,000	966	909
Operation, maintenance and other	788	743	727
Depreciation and amortization	520	458	496
Property and other taxes	78	76	58
Impairment charges	30	18	8
Total operating expenses	2,416	2,261	2,198
Gains on Sales of Other Assets and Other, net	—	—	1
Operating Income	643	786	761
Other Income and Expenses, net	45	47	26
Interest Expense	167	178	181
Income Before Income Taxes	521	655	606
Income Tax Expense	128	301	225
Net Income	\$ 393	\$ 354	\$ 381
Other Comprehensive Loss, net of tax			
Reclassification into earnings from cash flow hedges	—	—	(1)
Comprehensive Income	\$ 393	\$ 354	\$ 380

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY INDIANA, LLC

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 24	\$ 9
Receivables (net of allowance for doubtful accounts of \$2 at 2018 and 2017)	52	57
Receivables from affiliated companies	122	125
Inventory	422	450
Regulatory assets	175	165
Other	35	30
Total current assets	830	836
Property, Plant and Equipment		
Cost	15,443	14,948
Accumulated depreciation and amortization	(4,914)	(4,662)
Net property, plant and equipment	10,529	10,286
Other Noncurrent Assets		
Regulatory assets	982	978
Other	194	189
Total other noncurrent assets	1,176	1,167
Total Assets	\$ 12,535	\$ 12,289
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 200	\$ 196
Accounts payable to affiliated companies	83	78
Notes payable to affiliated companies	167	161
Taxes accrued	43	95
Interest accrued	58	57
Current maturities of long-term debt	63	3
Asset retirement obligations	109	54
Regulatory liabilities	25	24
Other	107	104
Total current liabilities	855	772
Long-Term Debt	3,569	3,630
Long-Term Debt Payable to Affiliated Companies	150	150
Other Noncurrent Liabilities		
Deferred income taxes	1,009	925
Asset retirement obligations	613	727
Regulatory liabilities	1,722	1,723
Accrued pension and other post-retirement benefit costs	115	76
Investment tax credits	147	147
Other	16	18
Total other noncurrent liabilities	3,622	3,616
Commitments and Contingencies		
Equity		
Member's Equity	4,339	4,121
Total Liabilities and Equity	\$ 12,535	\$ 12,289

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY INDIANA, LLC

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2018	2017	2016
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 393	\$ 354	\$ 381
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization, and accretion	524	462	499
Equity component of AFUDC	(32)	(28)	(16)
Impairment charges	30	18	8
Deferred income taxes	95	152	213
Accrued pension and other post-retirement benefit costs	7	2	8
Contributions to qualified pension plans	(8)	—	(9)
Payments for asset retirement obligations	(69)	(45)	(46)
Provision for rate refunds	53	—	—
(Increase) decrease in			
Receivables	7	59	(2)
Receivables from affiliated companies	3	(11)	(43)
Inventory	28	54	66
Other current assets	(25)	28	(67)
Increase (decrease) in			
Accounts payable	37	(86)	8
Accounts payable to affiliated companies	5	4	(9)
Taxes accrued	(52)	64	(4)
Other current liabilities	14	(10)	(81)
Other assets	29	(28)	(27)
Other liabilities	(33)	(20)	(8)
Net cash provided by operating activities	1,006	969	871
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(832)	(840)	(755)
Purchases of debt and equity securities	(48)	(20)	(14)
Proceeds from sales and maturities of debt and equity securities	44	7	11
Proceeds from the sales of other assets	15	—	—
Notes receivable from affiliated companies	—	86	(3)
Other	3	(65)	32
Net cash used in investing activities	(818)	(832)	(729)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	—	—	494
Payments for the redemption of long-term debt	(3)	(5)	(478)
Notes payable to affiliated companies	6	161	—
Distributions to parent	(175)	(300)	(149)
Other	(1)	(1)	(1)
Net cash used in financing activities	(173)	(145)	(134)
Net increase (decrease) in cash and cash equivalents	15	(8)	8
Cash and cash equivalents at beginning of period	9	17	9
Cash and cash equivalents at end of period	\$ 24	\$ 9	\$ 17
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 162	\$ 179	\$ 171
Cash paid for (received from) income taxes	75	117	(7)
Significant non-cash transactions:			
Accrued capital expenditures	88	125	99

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY INDIANA, LLC

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Common Stock	Additional Paid-in Capital	Retained Earnings	Member's Equity	Accumulated Other Comprehensive Income	Total Equity
					Net Gains on Cash Flow Hedges	
Balance at December 31, 2015	\$ 1	\$ 1,384	\$ 2,450	\$ —	\$ 1	\$ 3,836
Net income	—	—	—	381	—	381
Other comprehensive loss	—	—	—	—	(1)	(1)
Distributions to parent	—	—	—	(149)	—	(149)
Transfer to Member's Equity	(1)	(1,384)	(2,450)	3,835	—	—
Balance at December 31, 2016	\$ —	\$ —	\$ —	\$ 4,067	\$ —	\$ 4,067
Net income	—	—	—	354	—	354
Distributions to parent	—	—	—	(300)	—	(300)
Balance at December 31, 2017	\$ —	\$ —	\$ —	\$ 4,121	\$ —	\$ 4,121
Net income	—	—	—	393	—	393
Distributions to parent	—	—	—	(175)	—	(175)
Balance at December 31, 2018	\$ —	\$ —	\$ —	\$ 4,339	\$ —	\$ 4,339

See Notes to Consolidated Financial Statements

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PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Piedmont Natural Gas Company, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Piedmont Natural Gas Company, Inc. and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the periods ended December 31, 2018, December 31, 2017, October 31, 2016, and for the two months ended December 31, 2016 and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the periods ended December 31, 2018, December 31, 2017, October 31, 2016, and for the two months ended December 31, 2016, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Emphasis of Matter

As discussed in Note 1 to the financial statements, effective for fiscal year 2016, the Company changed its fiscal year end from October 31 to December 31. This resulted in a two-month transition period beginning November 1, 2016 through December 31, 2016.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

We have served as the Company's auditor since 1951.

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PART II

PIEDMONT NATURAL GAS COMPANY, INC.

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		Two Months Ended	Year Ended
	2018	2017	December 31, 2016	October 31, 2016
Operating Revenues				
Regulated natural gas	\$ 1,365	\$ 1,319	\$ 320	\$ 1,139
Nonregulated natural gas and other	10	9	2	10
Total operating revenues	1,375	1,328	322	1,149
Operating Expenses				
Cost of natural gas	584	524	144	391
Operation, maintenance and other	357	304	50	353
Depreciation and amortization	159	148	23	137
Property and other taxes	49	48	7	43
Impairment charges	—	7	—	—
Total operating expenses	1,149	1,031	224	924
Operating Income	226	297	98	225
Equity in earnings (losses) of unconsolidated affiliates	7	(6)	2	29
Gain on sale of unconsolidated affiliates	—	—	—	133
Other income and expense, net	14	(11)	(2)	(1)
Total other income and expenses	21	(17)	—	161
Interest Expense	81	79	12	69
Income Before Income Taxes	166	201	86	317
Income Tax Expense	37	62	32	124
Net Income	\$ 129	\$ 139	\$ 54	\$ 193
Other Comprehensive Income, net of tax				
Unrealized loss from hedging activities of equity method investments	—	—	—	(3)
Reclassification into earnings from hedging activities of equity method investments	—	—	—	4
Other Comprehensive Income, net of tax	—	—	—	1
Comprehensive Income	\$ 129	\$ 139	\$ 54	\$ 194

See Notes to Consolidated Financial Statements

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PART II

PIEDMONT NATURAL GAS COMPANY, INC.

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2018	2017
ASSETS		
Current Assets		
Cash and cash equivalents	\$ —	\$ 19
Receivables (net of allowance for doubtful accounts of \$2 at 2018 and 2017)	266	275
Receivables from affiliated companies	22	7
Inventory	70	66
Regulatory assets	54	95
Other	19	52
Total current assets	431	514
Property, Plant and Equipment		
Cost	7,486	6,725
Accumulated depreciation and amortization	(1,575)	(1,479)
Net property, plant and equipment	5,911	5,246
Other Noncurrent Assets		
Goodwill	49	49
Regulatory assets	303	283
Investments in equity method unconsolidated affiliates	64	61
Other	52	65
Total other noncurrent assets	468	458
Total Assets	\$ 6,810	\$ 6,218
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 203	\$ 125
Accounts payable to affiliated companies	38	13
Notes payable to affiliated companies	198	364
Taxes accrued	84	19
Interest accrued	31	31
Current maturities of long-term debt	350	250
Regulatory liabilities	37	3
Other	58	69
Total current liabilities	999	874
Long-Term Debt	1,788	1,787
Other Noncurrent Liabilities		
Deferred income taxes	551	564
Asset retirement obligations	19	15
Regulatory liabilities	1,181	1,141
Accrued pension and other post-retirement benefit costs	4	5
Other	177	170
Total other noncurrent liabilities	1,932	1,895
Commitments and Contingencies		
Equity		
Common stock, no par value: 100 shares authorized and outstanding at 2018 and 2017	1,160	860
Retained earnings	931	802
Total equity	2,091	1,662
Total Liabilities and Equity	\$ 6,810	\$ 6,218

See Notes to Consolidated Financial Statements

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PART II

PIEDMONT NATURAL GAS COMPANY, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		Two Months Ended	Year Ended
	2018	2017	December 31, 2016	October 31, 2016
CASH FLOWS FROM OPERATING ACTIVITIES				
Net income	\$ 129	\$ 139	\$ 54	\$ 193
Adjustments to reconcile net income to net cash provided by operating activities:				
Depreciation and amortization	161	151	25	148
Gains on sales of other assets	—	—	—	(133)
Impairment charges	—	7	—	—
Deferred income taxes	(31)	154	26	74
Equity in (earnings) losses from unconsolidated affiliates	(7)	6	(2)	(29)
Accrued pension and other post-retirement benefit costs	(4)	23	5	3
Contributions to qualified pension plans	—	(11)	(10)	(14)
Payments for asset retirement obligations	—	—	(1)	(6)
Provision for rate refunds	43	—	—	—
(Increase) decrease in				
Receivables	7	(40)	(157)	12
Receivables from affiliated companies	(15)	—	—	(7)
Inventory	(4)	—	(11)	14
Other current assets	71	(20)	8	(98)
Increase (decrease) in				
Accounts payable	15	(13)	35	6
Accounts payable to affiliated companies	25	5	4	6
Taxes accrued	65	(48)	(2)	38
Other current liabilities	21	(9)	2	28
Other assets	6	7	(7)	(91)
Other liabilities	(4)	(2)	5	180
Net cash provided by (used in) operating activities	478	349	(26)	324
CASH FLOWS FROM INVESTING ACTIVITIES				
Capital expenditures	(721)	(585)	(113)	(522)
Contributions to equity method investments	—	(12)	(12)	(47)
Proceeds from the sales of other assets	—	—	—	175
Other	(10)	(6)	1	5
Net cash used in investing activities	(731)	(603)	(124)	(389)
CASH FLOWS FROM FINANCING ACTIVITIES				
Proceeds from the:				
Issuance of long-term debt	100	250	—	295
Issuance of common stock	—	—	—	122
Payments for the redemption of long-term debt	—	(35)	—	(40)
Notes payable and commercial paper	—	(330)	185	(195)
Notes payable to affiliated companies	(166)	364	—	—
Capital contribution from parent	300	—	—	—
Dividends to parent	—	—	(27)	—
Dividends paid	—	—	—	(114)
Other	—	(1)	—	—
Net cash provided by financing activities	234	248	158	68
Net (decrease) increase in cash and cash equivalents	(19)	(6)	8	3
Cash and cash equivalents at beginning of period	19	25	17	14
Cash and cash equivalents at end of period	\$ —	\$ 19	\$ 25	\$ 17
Supplemental Disclosures:				
Cash paid for interest, net of amount capitalized	\$ 79	\$ 78	\$ 11	\$ 81
Cash received from income taxes	(16)	(12)	—	(25)
Significant non-cash transactions:				
Accrued capital expenditures	96	34	48	63
Transfer of ownership interest of certain equity method investees to parent	—	149	—	—

See Notes to Consolidated Financial Statements

PART II

PIEDMONT NATURAL GAS COMPANY, INC.

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Common Stock	Retained Earnings	Accumulated Other Comprehensive Income (Loss)	Total Equity
			Net Gain on Hedging Activities of Unconsolidated Affiliates	
Balance at October 31, 2015	\$ 721	\$ 706	\$ (1)	\$ 1,426
Net income	—	193	—	193
Other comprehensive income	—	—	1	1
Common stock issuances, including dividend reinvestment and employee benefits	139	—	—	139
Common stock dividends	—	(114)	—	(114)
Balance at October 31, 2016	\$ 860	\$ 785	\$ —	\$ 1,645
Net income	—	54	—	54
Dividends to parent	—	(27)	—	(27)
Balance at December 31, 2016	\$ 860	\$ 812	\$ —	\$ 1,672
Net income	—	139	—	139
Transfer of ownership interest of certain equity method investees to parent	—	(149)	—	(149)
Balance at December 31, 2017	\$ 860	\$ 802	\$ —	\$ 1,662
Net income	—	129	—	129
Contribution from parent	300	—	—	300
Balance at December 31, 2018	\$ 1,160	\$ 931	\$ —	\$ 2,091

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements

For the Years Ended December 31, 2018, 2017 and 2016

Index to Combined Notes To Consolidated Financial Statements

The notes to the consolidated financial statements are a combined presentation. The following table indicates the registrants to which the notes apply.

Registrant	Applicable Notes																									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Duke Energy	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
Duke Energy Carolinas	•		•	•	•	•	•	•	•	•	•		•	•	•	•	•	•		•	•	•	•	•	•	•
Progress Energy	•		•	•	•	•	•		•	•	•		•	•	•	•	•	•		•	•	•	•	•	•	•
Duke Energy Progress	•		•	•	•	•			•	•	•		•	•	•	•	•	•		•	•	•	•	•	•	•
Duke Energy Florida	•		•	•	•	•			•	•	•		•	•	•	•	•	•		•	•	•	•	•	•	•
Duke Energy Ohio	•		•	•	•	•		•	•	•	•		•	•		•	•	•		•	•	•	•	•	•	•
Duke Energy Indiana	•		•	•	•	•		•	•	•	•		•	•	•	•	•	•		•	•	•	•	•	•	•
Piedmont	•	•	•	•	•	•			•	•	•	•	•	•		•		•		•	•	•	•	•	•	•

Tables within the notes may not sum across due to (i) Progress Energy's consolidation of Duke Energy Progress, Duke Energy Florida and other subsidiaries that are not registrants and (ii) subsidiaries that are not registrants but included in the consolidated Duke Energy balances.

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

NATURE OF OPERATIONS AND BASIS OF CONSOLIDATION

Duke Energy is an energy company headquartered in Charlotte, North Carolina, subject to regulation by the FERC and other regulatory agencies listed below. Duke Energy operates in the U.S. primarily through its direct and indirect subsidiaries. Certain Duke Energy subsidiaries are also subsidiary registrants, including Duke Energy Carolinas; Progress Energy; Duke Energy Progress; Duke Energy Florida; Duke Energy Ohio; Duke Energy Indiana and Piedmont. When discussing Duke Energy's consolidated financial information, it necessarily includes the results of its separate Subsidiary Registrants, which along with Duke Energy, are collectively referred to as the Duke Energy Registrants.

In October 2016, Duke Energy completed the acquisition of Piedmont. Duke Energy's consolidated financial statements include Piedmont's results of operations and cash flows activity subsequent to the acquisition date. Effective November 1, 2016, Piedmont's fiscal year-end was changed from October 31 to December 31, the year-end of Duke Energy. A transition report was filed on Form 10-Q (Form 10-QT) for the transition period from November 1, 2016, to December 31, 2016. See Note 2 for additional information regarding the acquisition.

In December 2016, Duke Energy completed an exit of the Latin American market to focus on its domestic regulated business, which was further bolstered by the acquisition of Piedmont. The sale of the International Energy business segment, excluding an equity method investment in NMC, was

completed through two transactions including a sale of assets in Brazil to CTG and a sale of Duke Energy's remaining Latin American assets in Peru, Chile, Ecuador, Guatemala, El Salvador and Argentina to I Squared (collectively, the International Disposal Group). See Note 2 for additional information on the sale of International Energy.

The information in these combined notes relates to each of the Duke Energy Registrants as noted in the Index to Combined Notes to Consolidated Financial Statements. However, none of the Subsidiary Registrants make any representation as to information related solely to Duke Energy or the Subsidiary Registrants of Duke Energy other than itself.

These Consolidated Financial Statements include, after eliminating intercompany transactions and balances, the accounts of the Duke Energy Registrants and subsidiaries or VIEs where the respective Duke Energy Registrants have control. See Note 17 for additional information on VIEs. These Consolidated Financial Statements also reflect the Duke Energy Registrants' proportionate share of certain jointly owned generation and transmission facilities. See Note 8 for additional information on joint ownership. Substantially all of the Subsidiary Registrants' operations qualify for regulatory accounting.

Duke Energy Carolinas is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Carolinas is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
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Combined Notes to Consolidated Financial Statements – (Continued)

Progress Energy is a public utility holding company, which conducts operations through its wholly owned subsidiaries, Duke Energy Progress and Duke Energy Florida. Progress Energy is subject to regulation by FERC and other regulatory agencies listed below.

Duke Energy Progress is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Progress is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Duke Energy Florida is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Florida. Duke Energy Florida is subject to the regulatory provisions of the FPSC, NRC and FERC.

Duke Energy Ohio is a regulated public utility primarily engaged in the transmission and distribution of electricity in portions of Ohio and Kentucky, the generation and sale of electricity in portions of Kentucky and the transportation and sale of natural gas in portions of Ohio and Kentucky. Duke Energy Ohio conducts competitive auctions for retail electricity supply in Ohio whereby the energy price is recovered from retail customers and recorded in Operating Revenues on the Consolidated Statements of Operations and Comprehensive Income. Operations in Kentucky are conducted through its wholly owned subsidiary, Duke Energy Kentucky. References herein to Duke Energy Ohio collectively include Duke Energy Ohio and its subsidiaries, unless otherwise noted. Duke Energy Ohio is subject to the regulatory provisions of the PUCO, KPSC and FERC.

Duke Energy Indiana is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Indiana. Duke Energy Indiana is subject to the regulatory provisions of the IURC and FERC.

Piedmont is a regulated public utility primarily engaged in the distribution of natural gas in portions of North Carolina, South Carolina and Tennessee. Piedmont is subject to the regulatory provisions of the NCUC, PSCSC, TPUC and FERC.

Certain prior year amounts have been reclassified to conform to the current year presentation.

Other Current Assets and Liabilities

The following table provides a description of amounts included in Other within Current Assets or Current Liabilities that exceed 5 percent of total Current Assets or Current Liabilities on the Duke Energy Registrants' Consolidated Balance Sheets at either December 31, 2018, or 2017.

(in millions)	Location	December 31,		
		2018	2017	
Duke Energy				
Income taxes receivable	Current Assets	\$ 729	\$ 330	
Accrued compensation	Current Liabilities	793	757	
Duke Energy Carolinas				
Accrued compensation	Current Liabilities	\$ 251	\$ 252	
Progress Energy				
Income taxes receivable	Current Assets	\$ 66	\$ 278	
Customer deposits	Current Liabilities	345	338	
Duke Energy Progress				
Customer deposits	Current Liabilities	\$ 137	\$ 129	
Accrued compensation	Current Liabilities	130	132	
Duke Energy Florida				
Customer deposits	Current Liabilities	\$ 208	\$ 208	
Other accrued liabilities	Current Liabilities	85	16	
Duke Energy Ohio				
Income taxes receivable	Current Assets	\$ 13	\$ 36	
Customer deposits	Current Liabilities	44	46	
Duke Energy Indiana				
Customer deposits	Current Liabilities	\$ 47	\$ 45	
Piedmont				
Income taxes receivable	Current Assets	\$ 11	\$ 43	

Discontinued Operations

The results of operations of the International Disposal Group have been classified as Discontinued Operations on Duke Energy's Consolidated Statements of Operations. Duke Energy has elected to present cash flows of discontinued operations combined with cash flows of continuing operations. Unless otherwise noted, the notes to these consolidated financial statements exclude amounts related to discontinued operations for all periods presented. See Note 2 for additional information.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
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Combined Notes to Consolidated Financial Statements – (Continued)

Amounts Attributable to Controlling Interests

For the years ended December 31, 2018, and 2017, the Income (Loss) From Discontinued Operations, net of tax on Duke Energy's Consolidated Statements of Operations is entirely attributable to controlling interest. For the year ended December 31, 2016, \$18 million of net income is attributable to noncontrolling interests, which consisted of \$7 million included in Income from Continuing Operations and \$11 million included in Income (Loss) From Discontinued Operations, net of tax on Duke Energy's Consolidated Statement of Operations.

SIGNIFICANT ACCOUNTING POLICIES

Use of Estimates

In preparing financial statements that conform to GAAP, the Duke Energy Registrants must make estimates and assumptions that affect the reported amounts of assets and liabilities, the reported amounts of revenues and expenses and the disclosure of contingent assets and liabilities at the date of the financial statements. Actual results could differ from those estimates.

Regulatory Accounting

The majority of the Duke Energy Registrants' operations are subject to price regulation for the sale of electricity and natural gas by state utility commissions or FERC. When prices are set on the basis of specific costs of the regulated operations and an effective franchise is in place such that sufficient natural gas or electric services can be sold to recover those costs, the Duke Energy Registrants apply regulatory accounting. Regulatory accounting changes the timing of the recognition of costs or revenues relative to a company that does not apply regulatory accounting. As a result, regulatory assets and regulatory liabilities are recognized on the Consolidated Balance Sheets. Regulatory assets and liabilities are amortized consistent with the treatment of the related cost in the ratemaking process. See Note 4 for further information.

Regulatory accounting rules also require recognition of a disallowance (also called "impairment") loss if it becomes probable that part of the cost of a plant

under construction (or a recently completed plant or an abandoned plant) will be disallowed for ratemaking purposes and a reasonable estimate of the amount of the disallowance can be made. For example, if a cost cap is set for a plant still under construction, the amount of the disallowance is a result of a judgment as to the ultimate cost of the plant. These disallowances can require judgments on allowed future rate recovery.

When it becomes probable that regulated generation, transmission or distribution assets will be abandoned, the cost of the asset is removed from plant in service. The value that may be retained as a regulatory asset on the balance sheet for the abandoned property is dependent upon amounts that may be recovered through regulated rates, including any return. As such, an impairment charge could be partially or fully offset by the establishment of a regulatory asset if rate recovery is probable. The impairment charge for a disallowance of costs for regulated plants under construction, recently completed or abandoned is based on discounted cash flows.

The Duke Energy Registrants utilize cost-tracking mechanisms, commonly referred to as fuel adjustment clauses or PGA clauses. These clauses allow for the recovery of fuel and fuel-related costs, portions of purchased power, natural gas costs and hedging costs through surcharges on customer rates. The difference between the costs incurred and the surcharge revenues is recorded either as an adjustment to Operating Revenues, Operating Expenses – Fuel used in electric generation or Operating Expenses – Cost of natural gas on the Consolidated Statements of Operations, with an off-setting impact on regulatory assets or liabilities.

Cash, Cash Equivalents and Restricted Cash

All highly liquid investments with maturities of three months or less at the date of acquisition are considered cash equivalents. Duke Energy, Progress Energy and Duke Energy Florida have restricted cash balances related primarily to collateral assets, escrow deposits and VIEs. See Note 17 for additional information. Restricted cash amounts are included in Other within Current Assets and Other Noncurrent Assets on the Consolidated Balance Sheets. The following table presents the components of cash, cash equivalents and restricted cash included in the Consolidated Balance Sheets.

	December 31, 2018			December 31, 2017		
	Duke Energy	Progress Energy	Duke Energy Florida	Duke Energy	Progress Energy	Duke Energy Florida
Current Assets						
Cash and cash equivalents	\$ 442	\$ 67	\$ 36	\$ 358	\$ 40	\$ 13
Other	141	39	39	138	40	40
Other Noncurrent Assets						
Other	8	6	—	9	7	—
Total cash, cash equivalents and restricted cash	\$ 591	\$ 112	\$ 75	\$ 505	\$ 87	\$ 53

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
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Combined Notes to Consolidated Financial Statements – (Continued)

Inventory

Inventory is used for operations and is recorded primarily using the average cost method. Inventory related to regulated operations is valued at historical cost. Inventory related to nonregulated operations is valued at the lower of cost or market. Materials and supplies are recorded as inventory when purchased and subsequently charged to expense or capitalized to property, plant and equipment when installed. Inventory, including excess or obsolete inventory, is written-down to the lower of cost or market value. Once inventory has been written-down, it creates a new cost basis for the inventory that is not subsequently written-up. Provisions for inventory write-offs were not material at December 31, 2018, and 2017. The components of inventory are presented in the tables below.

December 31, 2018								
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Materials and supplies	\$ 2,238	\$ 731	\$ 1,049	\$ 734	\$ 315	\$ 84	\$ 312	\$ 2
Coal	491	175	192	106	86	14	109	—
Natural gas, oil and other	355	42	218	114	103	28	1	68
Total inventory	\$ 3,084	\$ 948	\$ 1,459	\$ 954	\$ 504	\$ 126	\$ 422	\$ 70

December 31, 2017								
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Materials and supplies	\$ 2,293	\$ 744	\$ 1,118	\$ 774	\$ 343	\$ 82	\$ 309	\$ 2
Coal	603	192	255	139	116	17	139	—
Natural gas, oil and other	354	35	219	104	115	34	2	64
Total inventory	\$ 3,250	\$ 971	\$ 1,592	\$ 1,017	\$ 574	\$ 133	\$ 450	\$ 66

Investments in Debt and Equity Securities

The Duke Energy Registrants classify investments in equity securities as FV-NI and investments in debt securities as AFS. Both categories are recorded at fair value on the Consolidated Balance Sheets. Realized and unrealized gains and losses on securities classified as FV-NI are reported through net income. Unrealized gains and losses for debt securities classified as AFS are included in AOCI until realized, except OTTI that are included in earnings immediately. At the time gains and losses for debt securities are realized, they are reported through net income. For certain investments of regulated operations, such as substantially all of the NDTF, realized and unrealized gains and losses (including any OTTI) on debt securities are recorded as a regulatory asset or liability. The credit loss portion of debt securities of nonregulated operations are included in earnings. Investments in debt and equity securities are classified as either current or noncurrent based on management's intent and ability to sell these securities, taking into consideration current market liquidity. See Note 15 for further information.

Goodwill and Intangible Assets

Goodwill

Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont perform annual goodwill impairment tests as of August 31 each year at the reporting unit level, which is determined to be a business segment or one level below. Duke Energy, Progress Energy,

Duke Energy Ohio and Piedmont update these tests between annual tests if events or circumstances occur that would more likely than not reduce the fair value of a reporting unit below its carrying value. See Note 11 for further information.

Intangible Assets

Intangible assets are included in Other in Other Noncurrent Assets on the Consolidated Balance Sheets. Generally, intangible assets are amortized using an amortization method that reflects the pattern in which the economic benefits of the intangible asset are consumed or on a straight-line basis if that pattern is not readily determinable. Amortization of intangibles is reflected in Depreciation and amortization on the Consolidated Statements of Operations. Intangible assets are subject to impairment testing and if impaired, the carrying value is accordingly reduced.

Emission allowances permit the holder of the allowance to emit certain gaseous byproducts of fossil fuel combustion, including SO₂ and NO_x. Allowances are issued by the EPA at zero cost and may also be bought and sold via third-party transactions. Allowances allocated to or acquired by the Duke Energy Registrants are held primarily for consumption. Carrying amounts for emission allowances are based on the cost to acquire the allowances or, in the case of a business combination, on the fair value assigned in the allocation of the purchase price of the acquired business. Emission allowances are expensed to Fuel used in electric generation and purchased power on the Consolidated Statements of Operations.

RECs are used to measure compliance with renewable energy standards and are held primarily for consumption. See Note 11 for further information.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Long-Lived Asset Impairments

The Duke Energy Registrants evaluate long-lived assets, excluding goodwill, for impairment when circumstances indicate the carrying value of those assets may not be recoverable. An impairment exists when a long-lived asset's carrying value exceeds the estimated undiscounted cash flows expected to result from the use and eventual disposition of the asset. The estimated cash flows may be based on alternative expected outcomes that are probability weighted. If the carrying value of the long-lived asset is not recoverable based on these estimated future undiscounted cash flows, the carrying value of the asset is written-down to its then-current estimated fair value and an impairment charge is recognized.

The Duke Energy Registrants assess fair value of long-lived assets using various methods, including recent comparable third-party sales, internally developed discounted cash flow analysis and analysis from outside advisors. Triggering events to reassess cash flows may include, but are not limited to, significant changes in commodity prices, the condition of an asset or management's interest in selling the asset.

Equity Method Investment Impairments

Investments in affiliates that are not controlled by Duke Energy, but over which it has significant influence, are accounted for using the equity method. Equity method investments are assessed for impairment whenever events or changes in circumstances indicate that the carrying amount of the investment may not be recoverable. If the decline in value is considered to be other than temporary, the investment is written down to its estimated fair value, which establishes a new cost basis in the investment.

Impairment assessments use a discounted cash flow income approach and include consideration of the severity and duration of any decline in the fair value of the investments. The estimated cash flows may be based on alternative expected outcomes that are probability weighted. Key inputs that involve estimates and significant management judgment include cash flow projections, selection of a discount rate, probability weighting of potential outcomes, and whether any decline in value is considered temporary.

Property, Plant and Equipment

Property, plant and equipment are stated at the lower of depreciated historical cost net of any disallowances or fair value, if impaired. The Duke Energy Registrants capitalize all construction-related direct labor and material costs, as well as indirect construction costs such as general engineering, taxes and financing costs. See "Allowance for Funds Used During Construction and Interest Capitalized" for information on capitalized financing costs. Costs of renewals and betterments that extend the useful life of property, plant and equipment are also capitalized. The cost of repairs, replacements and major maintenance projects, which do not extend the useful life or increase the expected output of the asset, are expensed as incurred. Depreciation is generally computed over the estimated useful life of the asset using the composite straight-line method. Depreciation studies are conducted periodically to update composite rates and are approved by state utility commissions and/or the FERC when required. The composite weighted average depreciation rates, excluding nuclear fuel, are included in the table that follows.

	Years Ended December 31,		
	2018	2017	2016
Duke Energy	3.0%	2.8%	2.8%
Duke Energy Carolinas	2.8%	2.8%	2.8%
Progress Energy	2.9%	2.6%	2.7%
Duke Energy Progress	2.9%	2.6%	2.6%
Duke Energy Florida	3.0%	2.8%	2.8%
Duke Energy Ohio	2.8%	2.8%	2.6%
Duke Energy Indiana	3.3%	3.0%	3.1%
Piedmont ^(a)	2.5%	2.3%	

(a) Piedmont's weighted average depreciation rate was 2.4 percent for the annualized two months ended December 31, 2016, and for the year ended October 31, 2016.

In general, when the Duke Energy Registrants retire regulated property, plant and equipment, the original cost plus the cost of retirement, less salvage value and any depreciation already recognized, is charged to accumulated depreciation. However, when it becomes probable the asset will be retired substantially in advance of its original expected useful life or is abandoned, the cost of the asset and the corresponding accumulated depreciation is recognized as a separate asset. If the asset is still in operation, the net amount is classified as Generation facilities to be retired, net on the Consolidated Balance Sheets. If the asset is no longer operating, the net amount is classified in Regulatory assets on the Consolidated Balance Sheets if deemed recoverable (see discussion of long-lived asset impairments above). When it becomes probable an asset will be abandoned, the cost of the asset and accumulated depreciation is reclassified to Regulatory assets on the Consolidated Balance Sheets for amounts recoverable in rates. The carrying value of the asset is based on historical cost if the Duke Energy Registrants are allowed to recover the remaining net book value and a return equal to at least the incremental borrowing rate. If not, an impairment is recognized to the extent the net book value of the asset exceeds the present value of future revenues discounted at the incremental borrowing rate.

When the Duke Energy Registrants sell entire regulated operating units, or retire or sell nonregulated properties, the original cost and accumulated depreciation and amortization balances are removed from Property, Plant and Equipment on the Consolidated Balance Sheets. Any gain or loss is recorded in earnings, unless otherwise required by the applicable regulatory body. See Note 10 for additional information.

Nuclear Fuel

Nuclear fuel is classified as Property, Plant and Equipment on the Consolidated Balance Sheets.

Nuclear fuel in the front-end fuel processing phase is considered work in progress and not amortized until placed in service. Amortization of nuclear fuel is included within Fuel used in electric generation and purchased power on the Consolidated Statements of Operations. Amortization is recorded using the units-of-production method.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Allowance for Funds Used During Construction and Interest Capitalized

For regulated operations, the debt and equity costs of financing the construction of property, plant and equipment are reflected as AFUDC and capitalized as a component of the cost of property, plant and equipment. AFUDC equity is reported on the Consolidated Statements of Operations as non-cash income in Other income and expenses, net. AFUDC debt is reported as a non-cash offset to Interest Expense. After construction is completed, the Duke Energy Registrants are permitted to recover these costs through their inclusion in rate base and the corresponding subsequent depreciation or amortization of those regulated assets.

AFUDC equity, a permanent difference for income taxes, reduces the ETR when capitalized and increases the ETR when depreciated or amortized. See Note 23 for additional information.

For nonregulated operations, interest is capitalized during the construction phase with an offsetting non-cash credit to Interest Expense on the Consolidated Statements of Operations.

Asset Retirement Obligations

AROs are recognized for legal obligations associated with the retirement of property, plant and equipment. Substantially all AROs are related to regulated operations. When recording an ARO, the present value of the projected liability is recognized in the period in which it is incurred, if a reasonable estimate of fair value can be made. The liability is accreted over time. For operating plants, the present value of the liability is added to the cost of the associated asset and depreciated over the remaining life of the asset. For retired plants, the present value of the liability is recorded as a regulatory asset unless determined not to be probable of recovery.

The present value of the initial obligation and subsequent updates are based on discounted cash flows, which include estimates regarding timing of future cash flows, selection of discount rates and cost escalation rates, among other factors. These estimates are subject to change. Depreciation expense is adjusted prospectively for any changes to the carrying amount of the associated asset. The Duke Energy Registrants receive amounts to fund the cost of the ARO for regulated operations through a combination of regulated revenues and earnings on the NDTF. As a result, amounts recovered in regulated revenues, earnings on the NDTF, accretion expense and depreciation of the associated asset are netted and deferred as a regulatory asset or liability.

Obligations for nuclear decommissioning are based on site-specific cost studies. Duke Energy Carolinas and Duke Energy Progress assume prompt dismantlement of the nuclear facilities after operations are ceased. Duke Energy Florida assumes Crystal River Unit 3 will be placed into a safe storage configuration until eventual dismantlement is completed by 2074. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida also assume that spent fuel will be stored on-site until such time that it can be transferred to a yet to be built DOE facility.

Obligations for closure of ash basins are based upon discounted cash flows of estimated costs for site-specific plans, if known, or probability weightings of the potential closure methods if the closure plans are under

development and multiple closure options are being considered and evaluated on a site-by-site basis. See Note 9 for additional information.

Revenue Recognition

Duke Energy recognizes revenue as customers obtain control of promised goods and services in an amount that reflects consideration expected in exchange for those goods or services. Generally, the delivery of electricity and natural gas results in the transfer of control to customers at the time the commodity is delivered and the amount of revenue recognized is equal to the amount billed to each customer, including estimated volumes delivered when billings have not yet occurred. See Note 18 for further information.

Derivatives and Hedging

Derivative and non-derivative instruments may be used in connection with commodity price and interest rate activities, including swaps, futures, forwards and options. All derivative instruments, except those that qualify for the NPNS exception, are recorded on the Consolidated Balance Sheets at fair value. Qualifying derivative instruments may be designated as either cash flow hedges or fair value hedges. Other derivative instruments (undesignated contracts) either have not been designated or do not qualify as hedges. The effective portion of the change in the fair value of cash flow hedges is recorded in AOCI. The effective portion of the change in the fair value of a fair value hedge is offset in net income by changes in the hedged item. For activity subject to regulatory accounting, gains and losses on derivative contracts are reflected as regulatory assets or liabilities and not as other comprehensive income or current period income. As a result, changes in fair value of these derivatives have no immediate earnings impact.

Formal documentation, including transaction type and risk management strategy, is maintained for all contracts accounted for as a hedge. At inception and at least every three months thereafter, the hedge contract is assessed to see if it is highly effective in offsetting changes in cash flows or fair values of hedged items.

See Note 14 for further information.

Captive Insurance Reserves

Duke Energy has captive insurance subsidiaries that provide coverage, on an indemnity basis, to the Subsidiary Registrants as well as certain third parties, on a limited basis, for financial losses, primarily related to property, workers' compensation and general liability. Liabilities include provisions for estimated losses IBNR, as well as estimated provisions for known claims. IBNR reserve estimates are primarily based upon historical loss experience, industry data and other actuarial assumptions. Reserve estimates are adjusted in future periods as actual losses differ from experience.

Duke Energy, through its captive insurance entities, also has reinsurance coverage with third parties for certain losses above a per occurrence and/or aggregate retention. Receivables for reinsurance coverage are recognized when realization is deemed probable.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Unamortized Debt Premium, Discount and Expense

Premiums, discounts and expenses incurred with the issuance of outstanding long-term debt are amortized over the term of the debt issue. The gain or loss on extinguishment associated with refinancing higher-cost debt obligations in the regulated operations is amortized. Amortization expense is recorded as Interest Expense in the Consolidated Statements of Operations and is reflected as Depreciation, amortization and accretion within Net cash provided by operating activities on the Consolidated Statements of Cash Flows.

Premiums, discounts and expenses are presented as an adjustment to the carrying value of the debt amount and included in Long-Term Debt on the Consolidated Balance Sheets presented.

Loss Contingencies and Environmental Liabilities

Contingent losses are recorded when it is probable a loss has occurred and can be reasonably estimated. When a range of the probable loss exists and no amount within the range is a better estimate than any other amount, the minimum amount in the range is recorded. Unless otherwise required by GAAP, legal fees are expensed as incurred.

Environmental liabilities are recorded on an undiscounted basis when environmental remediation or other liabilities become probable and can be reasonably estimated. Environmental expenditures related to past operations that do not generate current or future revenues are expensed. Environmental expenditures related to operations that generate current or future revenues are expensed or capitalized, as appropriate. Certain environmental expenditures receive regulatory accounting treatment and are recorded as regulatory assets.

See Notes 4 and 5 for further information.

Pension and Other Post-Retirement Benefit Plans

Duke Energy maintains qualified, non-qualified and other post-retirement benefit plans. Eligible employees of the Subsidiary Registrants participate in the respective qualified, non-qualified and other post-retirement benefit plans and the Subsidiary Registrants are allocated their proportionate share of benefit costs. See Note 22 for further information, including significant accounting policies associated with these plans.

Severance and Special Termination Benefits

Duke Energy has severance plans under which in general, the longer a terminated employee worked prior to termination the greater the amount of severance benefits. A liability for involuntary severance is recorded once an involuntary severance plan is committed to by management if involuntary severances are probable and can be reasonably estimated. For involuntary severance benefits incremental to its ongoing severance plan benefits, the fair value of the obligation is expensed at the communication date if there are no future service requirements or over the required future service period. Duke Energy also offers special termination benefits under voluntary severance programs. Special termination benefits are recorded immediately upon employee acceptance absent a significant retention period. Otherwise, the cost is recorded over the remaining service period. Employee acceptance of voluntary severance

benefits is determined by management based on the facts and circumstances of the benefits being offered. See Note 20 for further information.

Guarantees

If necessary, liabilities are recognized at the time of issuance or material modification of a guarantee for the estimated fair value of the obligation it assumes. Fair value is estimated using a probability-weighted approach. The obligation is reduced over the term of the guarantee or related contract in a systematic and rational method as risk is reduced. Any additional contingent loss for guarantee contracts subsequent to the initial recognition of a liability is accounted for and recognized at the time a loss is probable and can be reasonably estimated. See Note 7 for further information.

Stock-Based Compensation

Stock-based compensation represents costs related to stock-based awards granted to employees and Board of Directors members. Duke Energy recognizes stock-based compensation based upon the estimated fair value of awards, net of estimated forfeitures at the date of issuance. The recognition period for these costs begins at either the applicable service inception date or grant date and continues throughout the requisite service period. Compensation cost is recognized as expense or capitalized as a component of property, plant and equipment. See Note 21 for further information.

Income Taxes

Duke Energy and its subsidiaries file a consolidated federal income tax return and other state and foreign jurisdictional returns. The Subsidiary Registrants are parties to a tax-sharing agreement with Duke Energy. Income taxes recorded represent amounts the Subsidiary Registrants would incur as separate C-Corporations. Deferred income taxes have been provided for temporary differences between GAAP and tax bases of assets and liabilities because the differences create taxable or tax-deductible amounts for future periods. ITCs associated with regulated operations are deferred and amortized as a reduction of income tax expense over the estimated useful lives of the related properties.

Accumulated deferred income taxes are valued using the enacted tax rate expected to apply to taxable income in the periods in which the deferred tax asset or liability is expected to be settled or realized. In the event of a change in tax rates, deferred tax assets and liabilities are remeasured as of the enactment date of the new rate. To the extent that the change in the value of the deferred tax represents an obligation to customers, the impact of the remeasurement is deferred to a regulatory liability. Remaining impacts are recorded in income from continuing operations. If Duke Energy's estimate of the tax effect of reversing temporary differences is not reflective of actual outcomes, is modified to reflect new developments or interpretations of the tax law, revised to incorporate new accounting principles, or changes in the expected timing or manner of the reversal then Duke Energy's results of operations could be impacted.

Tax-related interest and penalties are recorded in Interest Expense and Other Income and Expenses, net in the Consolidated Statements of Operations. See Note 23 for further information.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Accounting for Renewable Energy Tax Credits

When Duke Energy receives ITCs on wind or solar facilities, it reduces the basis of the property recorded on the Consolidated Balance Sheets by the amount of the ITC and, therefore, the ITC benefit is ultimately recognized in the statement of operations through reduced depreciation expense. Additionally, certain tax credits and government grants result in an initial tax depreciable base in excess of the book carrying value by an amount equal to one half of the ITC. Deferred tax benefits are recorded as a reduction to income tax expense in the period that the basis difference is created.

Excise Taxes

Certain excise taxes levied by state or local governments are required to be paid even if not collected from the customer. These taxes are recognized on a gross basis. Otherwise, the taxes are accounted for net. Excise taxes accounted for on a gross basis within both Operating Revenues and Property and other taxes in the Consolidated Statements of Operations were as follows.

(in millions)	Years Ended December 31,		
	2018	2017	2016
Duke Energy	\$ 405	\$ 376	\$ 362
Duke Energy Carolinas	35	36	31
Progress Energy	241	220	213
Duke Energy Progress	19	19	18
Duke Energy Florida	222	201	195
Duke Energy Ohio	105	98	100
Duke Energy Indiana	22	20	17
Piedmont ^(a)	2	2	

(a) Piedmont's excise taxes were immaterial for the two months ended December 31, 2016, and \$2 million for the year ended October 31, 2016.

Dividend Restrictions and Unappropriated Retained Earnings

Duke Energy does not have any legal, regulatory or other restrictions on paying common stock dividends to shareholders. However, as further described in Note 4, due to conditions established by regulators in conjunction with merger transaction approvals, Duke Energy Carolinas, Duke Energy Progress, Duke Energy Ohio, Duke Energy Indiana and Piedmont have restrictions on paying dividends or otherwise advancing funds to Duke Energy. At December 31, 2018, and 2017, an insignificant amount of Duke Energy's consolidated Retained earnings balance represents undistributed earnings of equity method investments.

NEW ACCOUNTING STANDARDS

The new accounting standards adopted for 2018 and 2017 had no material impact on the presentation or results of operations, cash flows or financial position of the Duke Energy Registrants. The following accounting standards were adopted by the Duke Energy Registrants during 2018.

Revenue from Contracts with Customers. In May 2014, the FASB issued revised accounting guidance for revenue recognition from contracts with customers. The core principle of this guidance is that an entity should recognize

revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration expected in exchange for those goods or services. The amendments also required disclosure of sufficient information to allow users to understand the nature, amount, timing and uncertainty of revenue and cash flows arising from contracts with customers. The majority of Duke Energy's revenue is in scope of the new guidance. Other revenue arrangements, such as alternative revenue programs and certain PPAs and lighting agreements accounted for as leases, are excluded from the scope of this guidance and, therefore, are accounted for and evaluated for separate presentation and disclosure under other relevant accounting guidance.

Duke Energy elected the modified retrospective method of adoption effective January 1, 2018. Under the modified retrospective method of adoption, prior year reported results are not restated. Adoption of this standard did not result in a material change in the timing or pattern of revenue recognition and a cumulative-effect adjustment was not recorded at January 1, 2018. Duke Energy utilized certain practical expedients including applying this guidance to open contracts at the date of adoption, expensing costs to obtain a contract where the amortization period of the asset would have been one year or less, ignoring the effects of a significant financing when the period between transfer of the good or service and payment is one year or less and recognizing revenues for certain contracts under the invoice practical expedient, which allows revenue recognition to be consistent with invoiced amounts (including unbilled estimates) provided certain criteria are met, including consideration of whether the invoiced amounts reasonably represent the value provided to customers.

In preparation for adoption, Duke Energy identified material revenue streams and reviewed representative contracts and tariffs, including those associated with certain long-term customer contracts such as wholesale contracts, PPAs and other customer arrangements. Duke Energy also monitored the activities of the power and utilities industry revenue recognition task force and has reviewed published positions on specific industry issues to evaluate the impact, if any, on Duke Energy's specific contracts and conclusions. Duke Energy applied the available practical expedient to portfolios of tariffs and contracts with similar characteristics. The vast majority of sales, including energy provided to retail customers, are from tariff offerings that provide natural gas or electricity without a defined contractual term ("at-will"). In most circumstances, revenue from contracts with customers is equivalent to the electricity or natural gas supplied and billed in that period (including unbilled estimates). As such, adoption of the new rules did not result in a shift in the timing or pattern of revenue recognition for such sales. While there have been changes to the captions and descriptions of revenues in Duke Energy's financial statements, the most significant impact as a result of adopting the standard are additional disclosures around the nature, amount, timing and uncertainty of revenues and cash flows arising from contracts with customers. See Note 18 for further information.

Financial Instruments Classification and Measurement. On January 1, 2018, Duke Energy adopted FASB guidance, which revised the classification and measurement of certain financial instruments. The adopted guidance changes the presentation of realized and unrealized gains and losses in certain equity securities that were previously recorded in AOCI. These gains and losses are

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

now recorded in net income. An entity's equity investments that are accounted for under the equity method of accounting are not included within the scope of the new guidance. This guidance had a minimal impact on the Duke Energy Registrant's Consolidated Statements of Operations and Comprehensive Income as changes in the fair value of most of the Duke Energy Registrants' equity securities are deferred as regulatory assets or liabilities pursuant to accounting guidance for regulated operations. The resulting adjustment of unrealized gains and losses in AOCI to retained earnings was immaterial. The primary impact to Duke Energy as a result of implementing this guidance is adding disclosure requirements to present separately the financial assets and financial liabilities by measurement category and form of financial asset. See Notes 15 and 16 for further information.

Statement of Cash Flows. In November 2016, the FASB issued revised accounting guidance to reduce diversity in practice for the presentation and classification of restricted cash on the Consolidated Statements of Cash Flows. Under the updated guidance, restricted cash and restricted cash equivalents are included within beginning-of-period and end-of-period cash and cash equivalents on the Consolidated Statements of Cash Flows. Duke Energy adopted this guidance on January 1, 2018. The guidance has been applied using a retrospective transition method to each period presented. The adoption by Duke Energy of the revised guidance resulted in a change to the amount of Cash, cash equivalents and restricted cash explained when reconciling the beginning-of-period and end-of-period total amounts shown on the Consolidated Statements of Cash Flows. In addition, a reconciliation has been provided of Cash, cash equivalents and restricted cash reported within the Consolidated Balance Sheets that sums to the total of the same such amounts in the Consolidated Statements of Cash Flows. Prior to adoption, the Duke Energy Registrants reflected changes in noncurrent restricted cash within Cash Flows from Investing Activities and changes in current restricted cash within Cash Flows from Operating Activities on the Consolidated Statements of Cash Flows.

In August 2016, the FASB issued accounting guidance addressing diversity in practice for eight separate cash flow issues. The guidance requires entities to classify distributions received from equity method investees using either the cumulative earnings approach or the nature of the distribution approach. Duke Energy adopted this guidance on January 1, 2018, and elected the nature of distribution approach. This approach requires all distributions received to be categorized based on legal documentation describing the nature of the activities generating the distribution. Cash inflows resulting in a return on investment (surplus) will be reflected in Cash Flows from Operating Activities on the Consolidated Statements of Cash Flows, whereas cash inflows resulting in a return of investment (capital) will be reflected in Cash Flows from Investing Activities on the Consolidated Statements of Cash Flows. The guidance has been applied using the retrospective transition method to each period presented. There are no changes to the Consolidated Statements of Cash Flows for the periods presented as a result of this accounting change.

Retirement Benefits. In March 2017, the FASB issued revised accounting guidance for the presentation of net periodic costs related to benefit plans. Previous guidance required the aggregation of all the components of net periodic costs on the Consolidated Statements of Operations and did not require the disclosure of the location of net periodic costs on the Consolidated Statements of Operations. Under the amended guidance, the service cost component of net periodic costs is included within Operating Income within the same line as other compensation expenses. All other components of net periodic costs are outside of Operating Income. In addition, the updated guidance permits only the service cost component of net periodic costs to be capitalized to Inventory or Property, Plant and Equipment. This represents a change from previous guidance, which permitted all components of net periodic costs to be eligible for capitalization.

Duke Energy adopted this guidance on January 1, 2018. Under previous guidance, Duke Energy presented the total non-capitalized net periodic costs within Operation, maintenance and other on the Consolidated Statements of Operations. The adoption of this guidance resulted in a retrospective change to reclassify the presentation of the non-service cost (benefit) components of net periodic costs to Other income and expenses. Duke Energy utilized the practical expedient for retrospective presentation. The change in components of net periodic costs eligible for capitalization is applicable prospectively. Since Duke Energy's service cost component is greater than the total net periodic costs, the change results in increased capitalization of net periodic costs, higher Operation, maintenance and other and higher Other income and expenses. The resulting prospective impact to Duke Energy is an immaterial increase in Net Income. See Note 22 for further information.

For Duke Energy, the retrospective change resulted in higher Operation, maintenance and other and higher Other income and expenses, net, of \$156 million and \$139 million for the years ended December 31, 2017, and 2016, respectively. There was no change to Net Income for these prior periods.

The following new accounting standards have been issued, but have not yet been adopted by the Duke Energy Registrants, as of December 31, 2018.

Leases. In February 2016, the FASB issued revised accounting guidance for leases. The core principle of this guidance is that a lessee should recognize the assets and liabilities that arise from leases on the balance sheet.

For Duke Energy, this guidance is effective for interim and annual periods beginning January 1, 2019. The guidance will be applied using a modified retrospective approach. Under the modified retrospective approach of adoption, prior year reported results are not restated and a cumulative-effect adjustment, if applicable, is recorded to retained earnings at January 1, 2019. Upon adoption, agreements considered leases for the use of certain aircraft, space on communication towers, industrial equipment, fleet vehicles, fuel transportation (barges and railcars), land and office space will be recognized on the balance sheet. Duke Energy expects to adopt the following practical expedients:

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Practical Expedient	Description	Election
Package of transition practical expedients (for leases commenced prior to adoption date and must be adopted as a package)	Do not need to 1) reassess whether any expired or existing contracts are/or contain leases, 2) reassess the lease classification for any expired or existing leases and 3) reassess initial direct costs for any existing leases.	Duke Energy plans to elect this practical expedient.
Short-term lease expedient (elect by class of underlying asset)	Elect as an accounting policy to not apply the recognition requirements to short-term leases by asset class.	Duke Energy plans to elect this practical expedient for all asset classes.
Lease and non-lease components (elect by class of underlying asset)	Elect as an accounting policy to not separate non-lease components from lease components and instead account for each lease and associated non-lease component as a single lease component by asset class.	Duke Energy plans to elect this practical expedient for all asset classes.
Hindsight expedient (when determining lease term)	Elect to use hindsight to determine the lease term.	Duke Energy plans to elect this practical expedient.
Existing and expired land easements not previously accounted for as leases	Elect to not evaluate existing or expired easements under the new guidance and carry forward current accounting treatment.	Duke Energy plans to elect this practical expedient.
Comparative reporting requirements for initial adoption	Elect to apply transition requirements at adoption date, recognize cumulative effect adjustment to retained earnings in period of adoption and not apply ASC 842 to comparative periods, including disclosures.	Duke Energy plans to elect this practical expedient.
Lessor expedient (elect by class of underlying asset)	Elect as an accounting policy to aggregate non-lease components with the related lease component when specified conditions are met by asset class. Account for the combined component based on its predominant characteristic (revenue or operating lease).	Duke Energy plans to elect this practical expedient for all asset classes.

Duke Energy currently expects to record right-of-use assets and operating lease liabilities on its balance sheet as shown in approximate amounts in the table below:

	(in millions)
Duke Energy	\$ 1,700
Duke Energy Carolinas	150
Progress Energy	850
Duke Energy Progress	400
Duke Energy Florida	450
Duke Energy Ohio	25
Duke Energy Indiana	60
Piedmont	30

In addition to the recognition of operating leases on the balance sheet, Duke Energy expects additional disclosures including both finance and operating lease costs, short-term lease costs, variable lease costs, weighted-average remaining lease term as well as weighted-average discount rates. Duke Energy does not expect a material change to its financial statements from adoption of the new standard for contracts where it is the lessor.

2. ACQUISITIONS AND DISPOSITIONS

ACQUISITIONS

The Duke Energy Registrants consolidate assets and liabilities from acquisitions as of the purchase date and include earnings from acquisitions in consolidated earnings after the purchase date.

2016 Acquisition of Piedmont Natural Gas

On October 3, 2016, Duke Energy acquired all outstanding common stock of Piedmont for a total cash purchase price of \$5.0 billion and assumed Piedmont's existing long-term debt, which had a fair value of approximately

\$2.0 billion at the time of the acquisition. The acquisition provides a foundation for Duke Energy to establish a broader, long-term strategic natural gas infrastructure platform to complement its existing natural gas pipeline investments and regulated natural gas business in the Midwest. In connection with the closing of the acquisition, Piedmont became a wholly owned subsidiary of Duke Energy.

Accounting Charges Related to the Acquisition

Duke Energy incurred pretax transaction and integration costs associated with the acquisition of \$84 million, \$103 million and \$439 million for the years ended December 31, 2018, 2017 and 2016, respectively. Amounts recorded on

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

the Consolidated Statements of Operations in 2018 and 2017 were primarily system integration costs of \$78 million and \$71 million, respectively, related to combining the various operational and financial systems of Duke Energy and Piedmont, including a one-time software impairment resulting from planned accounting system and process integration in 2017. A \$7 million charge was recorded within Impairment Charges, with the remaining \$64 million recorded within Operation, maintenance and other in 2017.

Amounts recorded in 2016 include:

- Interest expense of \$234 million related to the acquisition financing, including realized losses on forward-starting interest rate swaps of \$190 million. See Note 14 for additional information on the swaps.
- Charges of \$104 million related to commitments made in conjunction with the transaction, including charitable contributions and a one-time bill credit to Piedmont customers. \$10 million was recorded as a reduction in Operating Revenues, with the remaining \$94 million recorded within Operation, maintenance and other.
- Other transaction and integration costs of \$101 million recorded to Operation, maintenance and other, including professional fees and severance charges.

The majority of transition and integration activities were completed by the end of 2018.

Pro Forma Financial Information

The following unaudited pro forma financial information reflects the combined results of operations of Duke Energy and Piedmont as if the merger had occurred as of January 1, 2015. The pro forma financial information does not include potential cost savings, intercompany revenues, Piedmont's earnings from a certain equity method investment sold immediately prior to the merger or non-recurring transaction and integration costs incurred by Duke Energy and Piedmont. The after-tax transaction and integration costs incurred by Duke Energy and Piedmont were \$279 million for the year ended December 31, 2016.

This information has been presented for illustrative purposes only and is not necessarily indicative of the consolidated results of operations that would have been achieved or the future consolidated results of operations of Duke Energy.

	Year Ended December 31,
(in millions)	2016
Operating Revenues	\$ 23,504
Net Income Attributable to Duke Energy Corporation	2,442

Piedmont's Earnings

Piedmont's revenues and net income included in Duke Energy's Consolidated Statements of Operations for the year ended December 31, 2016, were \$367 million and \$20 million, respectively. Piedmont's revenues and net income for the year ended December 31, 2016, include the impact of non-recurring transaction costs of \$10 million and \$46 million, respectively.

DISPOSITIONS

For the years ended December 31, 2018, and 2017, the Income (Loss) from Discontinued Operations, net of tax, was immaterial. The following table summarizes the Loss from Discontinued Operations, net of tax recorded on Duke Energy's Consolidated Statements of Operations for the year ended December 31, 2016:

	Year Ended December 31,
(in millions)	2016
International Disposal Group	\$ (534)
Other ^(a)	126
Loss from Discontinued Operations, net of tax	\$ (408)

(a) Amount represents an income tax benefit resulting from immaterial out of period deferred tax liability adjustments for previously sold businesses not related to the International Disposal Group.

2016 Sale of International Energy

In February 2016, Duke Energy announced it had initiated a process to divest the International Disposal Group, and in October 2016, announced it had entered into two separate purchase and sale agreements to execute the divestiture. Both sales closed in December of 2016, resulting in available cash proceeds of \$1.9 billion, excluding transaction costs. Proceeds were primarily used to reduce the Parent debt. Existing favorable tax attributes result in no immediate U.S. federal-level cash tax impacts. Details of each transaction are as follows:

- On December 20, 2016, Duke Energy closed on the sale of its ownership interests in businesses in Argentina, Chile, Ecuador, El Salvador, Guatemala and Peru to I Squared Capital. The assets sold included approximately 2,230 MW of hydroelectric and natural gas generation capacity, transmission infrastructure and natural gas processing facilities. I Squared Capital purchased the businesses for an enterprise value of \$1.2 billion.
- On December 29, 2016, Duke Energy closed on the sale of its Brazilian business, which included approximately 2,090 MW of hydroelectric generation capacity, to CTG for an enterprise value of \$1.2 billion. With the closing of the CTG deal, Duke Energy finalized its exit from the Latin American market.

Assets Held For Sale and Discontinued Operations

As a result of the transactions, the International Disposal Group was classified as held for sale and as discontinued operations in the fourth quarter of 2016. Interest expense directly associated with the International Disposal Group was allocated to discontinued operations. No interest from corporate level debt was allocated to discontinued operations.

The following table presents the results of the International Disposal Group for the year ended December 31, 2016, which are included in Loss from Discontinued Operations, net of tax in Duke Energy's Consolidated Statements of Operations.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

	Year Ended December 31,
(in millions)	2016
Operating Revenues	\$ 988
Fuel used in electric generation and purchased power	227
Cost of natural gas	43
Operation, maintenance and other	341
Depreciation and amortization ^(a)	62
Property and other taxes	15
Impairment charges ^(b)	194
(Losses) Gains on Sales of Other Assets and Other, net	(3)
Other Income and Expenses, net	58
Interest Expense	82
Pretax loss on disposal ^(c)	(514)
Loss before income taxes ^(d)	(435)
Income tax expense ^{(e)(f)}	99
Loss from discontinued operations of the International Disposal Group	\$ (534)

- (a) Upon meeting the criteria for assets held for sale, beginning in the fourth quarter of 2016 depreciation expense ceased.
- (b) In conjunction with the advancements of marketing efforts during 2016, Duke Energy performed recoverability tests of the long-lived asset groups of International Energy. As a result, Duke Energy determined the carrying value of certain assets in Central America was not fully recoverable and recorded a pretax impairment charge of \$194 million. The charge represents the excess of carrying value over the estimated fair value of the assets, which was based on a Level 3 Fair Value measurement that was primarily determined from the income approach using discounted cash flows but also considered market information obtained in 2016.
- (c) The pretax loss on disposal includes the recognition of cumulative foreign currency translation losses of \$620 million as of the disposal date. See the Consolidated Statements of Changes in Equity for additional information.
- (d) Pretax Loss attributable to Duke Energy Corporation was \$(445) million for the year ended December 31, 2016.
- (e) Amount includes \$126 million of income tax expense on the disposal, which primarily reflects in-country taxes incurred as a result of the sale. The after-tax loss on disposal was \$640 million.
- (f) Amount includes an income tax benefit of \$95 million. See Note 23, "Income Taxes," for additional information.

Duke Energy has elected not to separately disclose discontinued operations on the Consolidated Statements of Cash Flows. The following table summarizes Duke Energy's cash flows from discontinued operations related to the International Disposal Group.

	Year Ended December 31,
(in millions)	2016
Cash flows provided by (used in):	
Operating activities	\$ 204
Investing activities	(434)

Other Sale Related Matters

During 2017, Duke Energy provided certain transition services to CTG and I Squared Capital. Cash flows related to providing the transition services were not material as of December 31, 2017. All transition services related to the International Disposal Group ended in 2017. Additionally, Duke Energy will reimburse CTG and I Squared Capital for all tax obligations arising from the period preceding consummation on the transactions, and recorded a liability of \$54 million and \$78 million as of December 31, 2018, and 2017, respectively. Duke Energy has not recorded any other liabilities, contingent liabilities or indemnifications related to the International Disposal Group.

3. BUSINESS SEGMENTS

Reportable segments are determined based on information used by the chief operating decision-maker in deciding how to allocate resources and evaluate the performance of the business. Duke Energy evaluates segment performance based on segment income. Segment income is defined as income from continuing operations net of income attributable to noncontrolling interests. Segment income, as discussed below, includes intercompany revenues and expenses that are eliminated on the Consolidated Financial Statements. Certain governance costs are allocated to each segment. In addition, direct interest expense and income taxes are included in segment income.

Products and services are sold between affiliate companies and reportable segments of Duke Energy at cost. Segment assets as presented in the tables that follow exclude all intercompany assets.

Duke Energy

Duke Energy's segment structure includes the following segments: Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables.

The Electric Utilities and Infrastructure segment includes Duke Energy's regulated electric utilities in the Carolinas, Florida and the Midwest. The regulated electric utilities conduct operations through the Subsidiary Registrants that are substantially all regulated and, accordingly, qualify for regulatory accounting treatment. Electric Utilities and Infrastructure also includes Duke Energy's commercial electric transmission infrastructure investments.

The Gas Utilities and Infrastructure segment includes Piedmont, Duke Energy's natural gas local distribution companies in Ohio and Kentucky, and Duke Energy's natural gas storage and midstream pipeline investments. Gas Utilities and Infrastructure's operations are substantially all regulated and, accordingly, qualify for regulatory accounting treatment.

The Commercial Renewables segment is primarily comprised of nonregulated utility scale wind and solar generation assets located throughout the U.S.

The remainder of Duke Energy's operations is presented as Other, which is primarily comprised of interest expense on holding company debt, unallocated corporate costs and Duke Energy's wholly owned captive insurance company, Bison. Other also includes Duke Energy's interest in NMC. See Note 12 for additional information on the investment in NMC.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Business segment information is presented in the following tables. Segment assets presented exclude intercompany assets.

(in millions)	Year Ended December 31, 2018						Total
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total Reportable Segments	Other	Eliminations	
Unaffiliated Revenues	\$ 22,242	\$ 1,783	\$ 477	\$ 24,502	\$ 19	\$ —	\$ 24,521
Intersegment Revenues	31	98	—	129	70	(199)	—
Total Revenues	\$ 22,273	\$ 1,881	\$ 477	\$ 24,631	\$ 89	\$ (199)	\$ 24,521
Interest Expense	\$ 1,288	\$ 106	\$ 88	\$ 1,482	\$ 657	\$ (45)	\$ 2,094
Depreciation and amortization	3,523	245	155	3,923	152	(1)	4,074
Equity in earnings (losses) of unconsolidated affiliates	5	27	(1)	31	52	—	83
Income tax expense (benefit) ^(a)	799	78	(147)	730	(282)	—	448
Segment income (loss) ^{(b)(c)(d)(e)}	3,058	274	9	3,341	(694)	—	2,647
Add back noncontrolling interest component							(22)
Income from discontinued operations, net of tax							19
Net income							\$ 2,644
Capital investments expenditures and acquisitions	\$ 8,086	\$ 1,133	\$ 193	\$ 9,412	\$ 256	\$ —	\$ 9,668
Segment assets	125,364	12,361	4,204	141,929	3,275	188	145,392

- (a) All segments include adjustments to the December 31, 2017 estimate of the income tax effects of the Tax Act. Electric Utilities and Infrastructure includes a \$24 million expense, Gas Utilities and Infrastructure includes a \$1 million expense, Commercial Renewables includes a \$3 million benefit and Other includes a \$2 million benefit. See Note 23 for additional information.
- (b) Electric Utilities and Infrastructure includes after-tax regulatory and legislative impairment charges of \$202 million related to rate case orders, settlements or other actions of regulators or legislative bodies and an after-tax impairment charge of \$46 million related to the Citrus County CC at Duke Energy Florida. See Note 4 for additional information.
- (c) Gas Utilities and Infrastructure includes an after-tax impairment charge of \$42 million for the investment in Constitution. See Note 12 for additional information.
- (d) Commercial Renewables includes an impairment charge of \$91 million, net of \$2 million Noncontrolling interests, related to goodwill. See Note 11 for additional information.
- (e) Other includes \$65 million of after-tax costs to achieve the Piedmont merger, \$144 million of after-tax severance charges related to a companywide initiative and an \$82 million after-tax loss on the sale of the retired Beckjord Generating Station described below. For additional information, see Note 2 for the Piedmont Merger and Note 20 for severance charges.

In February 2018, Duke Energy sold Beckjord, a nonregulated facility retired during 2014, and recorded a pretax loss of \$106 million within (Losses) Gains on Sales of Other Assets and Other, net and \$1 million within Operation, maintenance and other on Duke Energy's Consolidated Statements of Operations for the year ended December 31, 2018. The sale included the transfer of coal ash basins and other real property and indemnification from any and all potential future claims related to the property, whether arising under environmental laws or otherwise.

(in millions)	Year Ended December 31, 2017						Total
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total Reportable Segments	Other	Eliminations	
Unaffiliated Revenues	\$ 21,300	\$ 1,743	\$ 460	\$ 23,503	\$ 62	\$ —	\$ 23,565
Intersegment Revenues	31	93	—	124	76	(200)	—
Total Revenues	\$ 21,331	\$ 1,836	\$ 460	\$ 23,627	\$ 138	\$ (200)	\$ 23,565
Interest Expense	\$ 1,240	\$ 105	\$ 87	\$ 1,432	\$ 574	\$ (20)	\$ 1,986
Depreciation and amortization	3,010	231	155	3,396	131	—	3,527
Equity in earnings (losses) of unconsolidated affiliates	5	62	(5)	62	57	—	119
Income tax expense (benefit) ^(a)	1,355	116	(628)	843	353	—	1,196
Segment income (loss) ^{(b)(c)(d)}	3,210	319	441	3,970	(905)	—	3,065
Add back noncontrolling interest component							5
Loss from discontinued operations, net of tax							(6)
Net income							\$ 3,064
Capital investments expenditures and acquisitions	\$ 7,024	\$ 907	\$ 92	\$ 8,023	\$ 175	\$ —	\$ 8,198
Segment assets	119,423	11,462	4,156	135,041	2,685	188	137,914

- (a) All segments include impacts of the Tax Act. Electric Utilities and Infrastructure includes a \$231 million benefit, Gas Utilities and Infrastructure includes a \$26 million benefit, Commercial Renewables includes a \$442 million benefit and Other includes charges of \$597 million.
- (b) Electric Utilities and Infrastructure includes after-tax regulatory settlement charges of \$98 million. See Note 4 for additional information.
- (c) Commercial Renewables includes after-tax impairment charges of \$74 million related to certain wind projects and the Energy Management Solutions reporting unit. See Notes 10 and 11 for additional information.
- (d) Other includes \$64 million of after-tax costs to achieve the Piedmont merger. See Note 2 for additional information.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Year Ended December 31, 2016						Total
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total Reportable Segments	Other	Eliminations	
Unaffiliated Revenues	\$ 21,336	\$ 875	\$ 484	\$ 22,695	\$ 48	\$ —	\$ 22,743
Intersegment Revenues	30	26	—	56	69	(125)	—
Total Revenues	\$ 21,366	\$ 901	\$ 484	\$ 22,751	\$ 117	\$ (125)	\$ 22,743
Interest Expense	\$ 1,136	\$ 46	\$ 53	\$ 1,235	\$ 693	\$ (12)	\$ 1,916
Depreciation and amortization	2,897	115	130	3,142	152	—	3,294
Equity in earnings (losses) of unconsolidated affiliates ^(a)	5	19	(82)	(58)	43	—	(15)
Income tax expense (benefit)	1,672	90	(160)	1,602	(446)	—	1,156
Segment income (loss) ^{(b)(c)}	3,040	152	23	3,215	(645)	1	2,571
Add back noncontrolling interest component							7
Loss from discontinued operations, net of tax ^(d)							(408)
Net income							\$ 2,170
Capital investments expenditures and acquisitions ^(e)	\$ 6,649	\$ 5,519	\$ 857	\$ 13,025	\$ 190	\$ —	\$ 13,215
Segment assets	114,993	10,760	4,377	130,130	2,443	188	132,761

(a) Commercial Renewables includes a pretax impairment charge of \$71 million. See Note 12 for additional information.

(b) Other includes \$329 million of after-tax costs to achieve mergers. See Note 2 for additional information on costs related to the Piedmont merger.

(c) Other includes after-tax charges of \$57 million related to cost savings initiatives. See Note 20 for further information.

(d) Includes a loss on sale of the International Disposal Group. Refer to Note 2 for further information.

(e) Other includes \$26 million of capital investment expenditures related to the International Disposal Group. Gas Utilities and Infrastructure includes the Piedmont acquisition of \$5 billion. See Note 2 for more information on the Piedmont acquisition.

Geographical Information

All assets and revenues from continuing operations are within the U.S.

Major Customers

For the year ended December 31, 2018, revenues from one customer of Duke Energy Progress are \$633 million. Duke Energy Progress has one reportable segment, Electric Utilities and Infrastructure. No other Subsidiary Registrant has an individual customer representing more than 10 percent of its revenues.

Products and Services

The following table summarizes revenues of the reportable segments by type.

(in millions)	Retail Electric	Wholesale Electric	Retail Natural Gas	Other	Total Revenues
2018					
Electric Utilities and Infrastructure	\$ 19,013	\$ 2,345	\$ —	\$ 915	\$ 22,273
Gas Utilities and Infrastructure	—	—	1,817	64	1,881
Commercial Renewables	—	375	—	102	477
Total Reportable Segments	\$ 19,013	\$ 2,720	\$ 1,817	\$ 1,081	\$ 24,631
2017					
Electric Utilities and Infrastructure	\$ 18,177	\$ 2,104	\$ —	\$ 1,050	\$ 21,331
Gas Utilities and Infrastructure	—	—	1,732	104	1,836
Commercial Renewables	—	375	—	85	460
Total Reportable Segments	\$ 18,177	\$ 2,479	\$ 1,732	\$ 1,239	\$ 23,627
2016					
Electric Utilities and Infrastructure	\$ 18,338	\$ 2,095	\$ —	\$ 933	\$ 21,366
Gas Utilities and Infrastructure	—	—	871	30	901
Commercial Renewables	—	303	—	181	484
Total Reportable Segments	\$ 18,338	\$ 2,398	\$ 871	\$ 1,144	\$ 22,751

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Ohio

Duke Energy Ohio has two reportable segments, Electric Utilities and Infrastructure and Gas Utilities and Infrastructure.

Electric Utilities and Infrastructure transmits and distributes electricity in portions of Ohio and generates, distributes and sells electricity in portions of Northern Kentucky. Gas Utilities and Infrastructure transports and sells natural gas in portions of Ohio and Northern Kentucky. Both reportable segments conduct operations primarily through Duke Energy Ohio and its wholly owned subsidiary, Duke Energy Kentucky.

The remainder of Duke Energy Ohio's operations is presented as Other. In December 2018, the PUCO approved an order which allows the recovery or credit of revenues and expenses related to Duke Energy Ohio's contractual arrangement to buy power from OVEC power plants. Due to the change in regulatory treatment of these amounts, OVEC revenues and expenses are now reflected in the Electric Utilities and Infrastructure segment. Previously, OVEC revenues and expense were included in Other. These amounts are deemed immaterial for Duke Energy Ohio. Therefore, no prior period amounts were restated. See Note 4 for additional information on the PUCO order.

All Duke Energy Ohio assets and revenues from continuing operations are within the U.S.

(in millions)	Year Ended December 31, 2018				
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Total Reportable Segments	Other	Total
Total revenues	\$ 1,450	\$ 506	\$ 1,956	\$ 1	\$ 1,957
Interest expense	\$ 67	\$ 24	\$ 91	\$ 1	\$ 92
Depreciation and amortization	183	85	268	—	268
Income tax expense (benefit)	47	24	71	(28)	43
Segment income (loss)/Net income ^(a)	186	93	279	(103)	\$ 176
Capital expenditures	\$ 655	\$ 172	\$ 827	\$ —	\$ 827
Segment assets	5,643	2,874	8,517	38	8,555

(a) Other includes the loss on the sale of Beckjord, see discussion above.

(in millions)	Year Ended December 31, 2017					
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Total Reportable Segments	Other	Eliminations	Total
Total revenues	\$ 1,373	\$ 508	\$ 1,881	\$ 42	\$ —	\$ 1,923
Interest expense	\$ 62	\$ 28	\$ 90	\$ 1	\$ —	\$ 91
Depreciation and amortization	178	83	261	—	—	261
Income tax expense (benefit)	40	39	79	(20)	—	59
Segment income (loss)	138	85	223	(30)	—	193
Loss from discontinued operations, net of tax						(1)
Net income						\$ 192
Capital expenditures	\$ 491	\$ 195	\$ 686	\$ —	\$ —	\$ 686
Segment assets	5,066	2,758	7,824	66	(15)	7,875

(in millions)	Year Ended December 31, 2016					
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Total Reportable Segments	Other	Eliminations	Total
Total revenues	\$ 1,410	\$ 503	\$ 1,913	\$ 31	\$ —	\$ 1,944
Interest expense	\$ 58	\$ 27	\$ 85	\$ 1	\$ —	\$ 86
Depreciation and amortization	151	80	231	2	—	233
Income tax expense (benefit)	55	44	99	(21)	—	78
Segment income (loss)	154	77	231	(39)	—	192
Income from discontinued operations, net of tax						36
Net income						\$ 228
Capital expenditures	\$ 322	\$ 154	\$ 476	\$ —	\$ —	\$ 476
Segment assets	4,782	2,696	7,478	62	(12)	7,528

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

4. REGULATORY MATTERS

REGULATORY ASSETS AND LIABILITIES

The Duke Energy Registrants record regulatory assets and liabilities that result from the ratemaking process. See Note 1 for further information.

The following tables present the regulatory assets and liabilities recorded on the Consolidated Balance Sheets of Duke Energy and Progress Energy. See separate tables below for balances by individual registrant.

(in millions)	Duke Energy		Progress Energy	
	December 31,		December 31,	
	2018	2017	2018	2017
Regulatory Assets				
AROs – coal ash	\$ 4,255	\$ 4,025	\$2,061	\$1,984
AROs – nuclear and other	772	852	601	655
Accrued pension and OPEB	2,654	2,249	1,074	906
Retired generation facilities	445	480	367	386
Debt fair value adjustment	1,099	1,197	—	—
Deferred asset – Lee COLA	383	—	—	—
Storm cost deferrals	1,117	531	953	526
Nuclear asset securitized balance, net	1,093	1,142	1,093	1,142
Hedge costs deferrals	204	234	74	94
Derivatives – natural gas supply contracts	141	142	—	—
Demand side management (DSM)/Energy efficiency (EE)	449	530	256	281
Grid modernization	31	39	—	—
Vacation accrual	213	213	41	42
Deferred fuel and purchased power	838	507	600	349
Nuclear deferral	133	119	46	35
Post-in-service carrying costs (PISCC) and deferred operating expenses	320	366	36	38
Transmission expansion obligation	39	46	—	—
Manufactured gas plant (MGP)	99	91	—	—
Advanced metering infrastructure (AMI)	367	362	127	150
NCEMPA deferrals	50	53	50	53
East Bend deferrals	47	45	—	—
Deferred pipeline integrity costs	65	54	—	—
Amounts due from customers	24	64	—	—
Other	784	538	322	110
Total regulatory assets	15,622	13,879	7,701	6,751
Less: current portion	2,005	1,437	1,137	741
Total noncurrent regulatory assets	\$13,617	\$12,442	\$6,564	\$6,010
Regulatory Liabilities				
Costs of removal	\$ 5,421	\$ 5,968	\$2,135	\$2,537
AROs – nuclear and other	538	806	—	—
Net regulatory liability related to income taxes	8,058	8,113	2,710	2,802
Amounts to be refunded to customers	34	10	—	—
Storm reserve	—	20	—	—
Accrued pension and OPEB	301	146	149	—
Deferred fuel and purchased power	16	47	16	1
Other	1,064	622	319	179
Total regulatory liabilities	15,432	15,732	5,329	5,519
Less: current portion	598	402	280	213
Total noncurrent regulatory liabilities	\$14,834	\$15,330	\$5,049	\$5,306

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Descriptions of regulatory assets and liabilities summarized in the tables above and below follow. See tables below for recovery and amortization periods at the separate registrants.

AROs – coal ash. Represents deferred depreciation and accretion related to the legal obligation to close ash basins. The costs are deferred until recovery treatment has been determined. See Notes 1 and 9 for additional information.

AROs – nuclear and other. Represents regulatory assets or liabilities, including deferred depreciation and accretion, related to legal obligations associated with the future retirement of property, plant and equipment, excluding amounts related to coal ash. The AROs relate primarily to decommissioning nuclear power facilities. The amounts also include certain deferred gains and losses on NDTF investments. See Notes 1 and 9 for additional information.

Accrued pension and OPEB. Accrued pension and OPEB represent regulatory assets and liabilities related to each of the Duke Energy Registrants' respective shares of unrecognized actuarial gains and losses and unrecognized prior service cost and credit attributable to Duke Energy's pension plans and OPEB plans. The regulatory asset or liability is amortized with the recognition of actuarial gains and losses and prior service cost and credit to net periodic benefit costs for pension and OPEB plans. The accrued pension and OPEB regulatory asset is expected to be recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.

Retired generation facilities. Represents amounts to be recovered for facilities that have been retired and are probable of recovery.

Debt fair value adjustment. Purchase accounting adjustments recorded to state the carrying value of Progress Energy and Piedmont at fair value in connection with the 2012 and 2016 mergers, respectively. Amount is amortized over the life of the related debt.

Net regulatory asset or liability related to income taxes. Amounts for all registrants include regulatory liabilities related primarily to impacts from the Tax Act. See Note 23 for additional information. Amounts have no immediate impact on rate base as regulatory assets are offset by deferred tax liabilities.

Deferred asset – Lee COLA. Represents deferred costs incurred for the canceled Lee nuclear project.

Storm cost deferrals. Represents deferred incremental costs incurred related to extraordinary weather-related events.

Nuclear asset securitized balance, net. Represents the balance associated with Crystal River Unit 3 retirement approved for recovery by the FPSC on September 15, 2015, and the upfront financing costs securitized in 2016 with issuance of the associated bonds. The regulatory asset balance is net of the AFUDC equity portion.

Hedge costs and other deferrals. Amounts relate to unrealized gains and losses on derivatives recorded as a regulatory asset or liability, respectively, until the contracts are settled.

Derivatives – natural gas supply contracts. Represents costs for certain long-dated, fixed quantity forward gas supply contracts, which are recoverable through PGA clauses.

DSM/EE. Deferred costs related to various DSM and EE programs recoverable through various mechanisms.

Grid modernization. Amounts represent deferred depreciation and operating expenses as well as carrying costs on the portion of capital expenditures placed in service but not yet reflected in retail rates as plant in service.

Vacation accrual. Represents vacation entitlement, which is generally recovered in the following year.

Deferred fuel and purchased power. Represents certain energy-related costs that are recoverable or refundable as approved by the applicable regulatory body.

Nuclear deferral. Includes amounts related to leveling nuclear plant outage costs, which allows for the recognition of nuclear outage expenses over the refueling cycle rather than when the outage occurs, resulting in the deferral of operations and maintenance costs associated with refueling.

Post-in-service carrying costs and deferred operating expenses. Represents deferred depreciation and operating expenses as well as carrying costs on the portion of capital expenditures placed in service but not yet reflected in retail rates as plant in service.

Transmission expansion obligation. Represents transmission expansion obligations related to Duke Energy Ohio's withdrawal from Midcontinent Independent System Operator, Inc. (MISO).

MGP. Represents remediation costs incurred at former MGP sites and the deferral of costs to be incurred at Duke Energy Ohio's East End and West End sites.

AMI. Represents deferred costs related to the installation of AMI meters and remaining net book value of non-AMI meters to be replaced at Duke Energy Carolinas, net book value of existing meters at Duke Energy Florida, Duke Energy Progress and Duke Energy Ohio and expected future recovery of net book value of electromechanical meters that have been replaced with AMI meters at Duke Energy Indiana.

NCEMPA deferrals. Represents retail allocated cost deferrals and returns associated with the additional ownership interest in assets acquired from NCEMPA in 2015.

East Bend deferrals. Represents both deferred operating expenses and deferred depreciation as well as carrying costs on the portion of East Bend that was acquired from Dayton Power and Light and that had been previously operated as a jointly owned facility.

Deferred pipeline integrity costs. Represents pipeline integrity management costs in compliance with federal regulations recovered through a rider mechanism.

Amounts due from customers. Relates primarily to margin decoupling and IMR recovery mechanisms.

Costs of removal. Represents funds received from customers to cover the future removal of property, plant and equipment from retired or abandoned sites as property is retired. Also includes certain deferred gains on NDTF investments.

Amounts to be refunded to customers. Represents required rate reductions to retail customers by the applicable regulatory body.

Storm reserve. Amounts are used to offset future incurred costs for named storms as approved by regulatory commissions.

RESTRICTIONS ON THE ABILITY OF CERTAIN SUBSIDIARIES TO MAKE DIVIDENDS, ADVANCES AND LOANS TO DUKE ENERGY

As a condition to the approval of merger transactions, the NCUC, PSCSC, PUCO, KPSC and IURC imposed conditions on the ability of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Ohio, Duke Energy Kentucky, Duke Energy Indiana and Piedmont to transfer funds to Duke Energy through loans or advances, as well as restricted amounts available to pay dividends to Duke Energy. Certain subsidiaries may transfer funds to the parent by obtaining approval of the respective state regulatory commissions. These conditions imposed restrictions on the ability of the public utility subsidiaries to pay cash dividends as discussed below.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Progress and Duke Energy Florida also have restrictions imposed by their first mortgage bond indentures, which in certain circumstances, limit their ability to make cash dividends or distributions on common stock. Amounts restricted as a result of these provisions were not material at December 31, 2018.

Additionally, certain other subsidiaries of Duke Energy have restrictions on their ability to dividend, loan or advance funds to Duke Energy due to specific legal or regulatory restrictions, including, but not limited to, minimum working capital and tangible net worth requirements.

The restrictions discussed below were not a material amount of Duke Energy's and Progress Energy's net assets at December 31, 2018.

Duke Energy Carolinas

Duke Energy Carolinas must limit cumulative distributions subsequent to mergers to (i) the amount of retained earnings on the day prior to the closing of the mergers, plus (ii) any future earnings recorded.

Duke Energy Progress

Duke Energy Progress must limit cumulative distributions subsequent to the mergers between Duke Energy and Progress Energy and Duke Energy and Piedmont to (i) the amount of retained earnings on the day prior to the closing of the respective mergers, plus (ii) any future earnings recorded.

Duke Energy Ohio

Duke Energy Ohio will not declare and pay dividends out of capital or unearned surplus without the prior authorization of the PUCO. Duke Energy Ohio received FERC and PUCO approval to pay dividends from its equity accounts that are reflective of the amount that it would have in its retained earnings account had push-down accounting for the Cinergy merger not been applied to Duke Energy Ohio's balance sheet. The conditions include a commitment from Duke Energy Ohio that equity, adjusted to remove the impacts of push-down accounting, will not fall below 30 percent of total capital.

Duke Energy Kentucky is required to pay dividends solely out of retained earnings and to maintain a minimum of 35 percent equity in its capital structure.

Duke Energy Indiana

Duke Energy Indiana must limit cumulative distributions subsequent to the merger between Duke Energy and Cinergy to (i) the amount of retained earnings on the day prior to the closing of the merger, plus (ii) any future earnings recorded. In addition, Duke Energy Indiana will not declare and pay dividends out of capital or unearned surplus without prior authorization of the IURC.

Piedmont

Piedmont must limit cumulative distributions subsequent to the acquisition of Piedmont by Duke Energy to (i) the amount of retained earnings on the day prior to the closing of the merger, plus (ii) any future earnings recorded.

RATE-RELATED INFORMATION

The NCUC, PSCSC, FPSC, IURC, PUCO, TPUC and KPSC approve rates for retail electric and natural gas services within their states. The FERC approves rates for electric sales to wholesale customers served under cost-based rates (excluding Ohio and Indiana), as well as sales of transmission service. The FERC also regulates certification and siting of new interstate natural gas pipeline projects.

Duke Energy Carolinas and Duke Energy Progress

Grid Improvement – South Carolina

On June 22, 2018, Duke Energy Carolinas and Duke Energy Progress filed a joint petition with the PSCSC seeking an accounting order authorizing deferral of certain costs incurred in connection with grid reliability, resiliency and modernization work that is being performed under the companies' grid improvement initiative. On October 3, 2018, the PSCSC granted Duke Energy Carolinas' and Duke Energy Progress' joint petition, which authorizes the deferral of these costs until the rate effective dates of each Company's next general rate case.

Hurricane Florence, Hurricane Michael and Winter Storm Diego

In September 2018, Hurricane Florence made landfall and inflicted severe damage to the Duke Energy Carolinas and Duke Energy Progress territories in North Carolina and South Carolina. Approximately 2 million customers were impacted. The companies incurred approximately \$500 million in incremental operation and maintenance expenses (\$70 million and \$430 million for Duke Energy Carolinas and Duke Energy Progress, respectively,) and approximately \$90 million in capital costs (\$5 million and \$85 million for Duke Energy Carolinas and Duke Energy Progress, respectively,) which are included in Net property, plant and equipment on the Consolidated Balance Sheets as of December 31, 2018, resulting from the hurricane restoration efforts. Most of the operation and maintenance expenses are deferred in Regulatory assets within Other Noncurrent Assets on the Consolidated Balance Sheets as of December 31, 2018. The balance of operation and maintenance expenses are included in Operation, maintenance and other on the Consolidated Statements of Operations for the year ended December 31, 2018.

In October 2018, the remnants of Hurricane Michael inflicted severe damage to the Duke Energy Carolinas and Duke Energy Progress territories in North Carolina and South Carolina. Approximately 1 million customers were impacted. The companies incurred approximately \$100 million in incremental operation and maintenance expenses (\$75 million and \$25 million for Duke Energy Carolinas and Duke Energy Progress, respectively,) and approximately \$21 million in capital costs (\$12 million and \$9 million for Duke Energy Carolinas and Duke Energy Progress, respectively,) which are included in Net property, plant and equipment on the Consolidated Balance Sheets as of December 31, 2018, resulting from the hurricane restoration efforts. Most of the operation and maintenance expenses are deferred in Regulatory assets within Other Noncurrent Assets on the Consolidated Balance Sheets as of December 31, 2018. The balance of operation and maintenance expenses are included in Operation, maintenance and other on the Consolidated Statements of Operations for the year ended December 31, 2018.

In December 2018, Winter Storm Diego inflicted severe damage to the Duke Energy Carolinas and Duke Energy Progress territories in North Carolina and South Carolina. Approximately 800,000 customers were impacted. The companies incurred approximately \$85 million in incremental operation and maintenance expenses (\$60 million and \$25 million for Duke Energy Carolinas and Duke Energy Progress, respectively,) and approximately \$9 million in capital costs (\$7 million and \$2 million for Duke Energy Carolinas and Duke Energy Progress, respectively,) which are included in Net property, plant and equipment on the Consolidated Balance Sheets as of December 31, 2018, resulting from the winter storm restoration efforts. Most of the operation and maintenance expenses are deferred in Regulatory assets within Other Noncurrent Assets on the Consolidated Balance Sheets as of December 31, 2018. The balance of operation and maintenance expenses are included in Operation, maintenance and other on the Consolidated Statements of Operations for the year ended December 31, 2018.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

On December 21, 2018, Duke Energy Carolinas and Duke Energy Progress filed with the NCUC petitions for approval to defer the incremental costs incurred to a regulatory asset for recovery in the next base rate case. The NCUC issued an order requesting comments on the deferral positions. Duke Energy Carolinas and Duke Energy Progress cannot predict the outcome of this matter. Duke Energy Progress filed a similar request with the PSCSC on January 11, 2019, which also included a request for the continuation of prior deferrals requested for ice storms and Hurricane Matthew, and on January 30, 2019, the PSCSC issued a directive approving the deferral request.

North Carolina State Corporate Income Tax

On December 12, 2018, Duke Energy Carolinas and Duke Energy Progress filed requests to reduce their rates effective January 1, 2019, based on a reduction in North Carolina's corporate income tax rate from 3 to 2.5 percent, as enacted by the General Assembly in Session Law 2017-57, which became law on June 28, 2017, with an effective date of January 1, 2019. On December 17, 2018, the NCUC issued orders approving the Duke Energy Carolinas and Duke Energy Progress rate decrements.

Duke Energy Carolinas

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Carolinas' Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2018	2017		
Regulatory Assets^(a)				
AROs – coal ash	\$ 1,725	\$ 1,645	(i)	(b)
Accrued pension and OPEB	581	410		(j)
Retired generation facilities ^(c)	21	29	X	2023
Deferred Asset – Lee COLA	383	—		(b)
Storm cost deferrals	160	—	X	(b)
Hedge costs deferrals ^(c)	101	109	X	2041
DSM/EE	169	210	(h)	(h)
Vacation accrual	78	83	(e)	2019
Deferred fuel and purchased power	196	140	(f)	2020
Nuclear deferral	87	84		2020
PISCC ^(c)	34	35	X	(b)
AMI	176	185	X	(b)
Other	266	222		(b)
Total regulatory assets	3,977	3,152		
Less: current portion	520	299		
Total noncurrent regulatory assets	\$ 3,457	\$ 2,853		
Regulatory Liabilities^(a)				
Costs of removal ^(c)	\$ 1,968	\$ 2,054	X	(g)
ARO – nuclear and other	538	806		(b)
Net regulatory liability related to income taxes ^(d)	3,082	3,028		(b)
Storm reserve ^(c)	—	20		(b)
Accrued pension and OPEB	38	44		(j)
Deferred fuel and purchased power	—	46	(f)	2020
Other	572	359		(b)
Total regulatory liabilities	6,198	6,357		
Less: current portion	199	126		
Total noncurrent regulatory liabilities	\$ 5,999	\$ 6,231		

(a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.

(b) The expected recovery or refund period varies or has not been determined.

(c) Included in rate base.

(d) Includes regulatory liabilities related to the change in the federal tax rate as a result of the Tax Act and the change in the North Carolina tax rate, both discussed in Note 23.

(e) Earns a return on outstanding balance in North Carolina.

(f) Pays interest on over-recovered costs in North Carolina. Includes certain purchased power costs in North Carolina and South Carolina and costs of distributed energy in South Carolina.

(g) Recovered over the life of the associated assets.

(h) Includes incentives on DSM/EE investments and is recovered through an annual rider mechanism.

(i) Earns a debt and equity return on coal ash expenditures for North Carolina and South Carolina retail customers as permitted by various regulatory orders.

(j) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

2017 North Carolina Rate Case

On August 25, 2017, Duke Energy Carolinas filed an application with the NCUC for a rate increase for retail customers of approximately \$647 million, which represented an approximate 13.6 percent increase in annual base revenues. The rate increase was driven by capital investments subsequent to the previous base rate case, including the W.S. Lee CC discussed below, grid improvement projects, AMI, investments in customer service technologies, costs of complying with CCR regulations and the Coal Ash Act and recovery of costs related to licensing and development of the Lee Nuclear Station discussed below.

On February 28, 2018, Duke Energy Carolinas and the North Carolina Public Staff (Public Staff) filed an Agreement and Stipulation of Partial Settlement resolving certain portions of the proceeding. Terms of the settlement included a return on equity of 9.9 percent and a capital structure of 52 percent equity and 48 percent debt. As a result of the settlement, Duke Energy Carolinas recorded a pretax charge of approximately \$4 million to Operation, maintenance and other on the Consolidated Statements of Operations.

On June 1, 2018, Duke Energy Carolinas and certain intervenors filed a Pilot Grid Rider Agreement and Stipulation (Grid Rider Stipulation) in which the parties agreed to the proposal Duke Energy Carolinas introduced in a post-hearing brief on April 27, 2018, along with additional commitments by Duke Energy Carolinas. Also on June 1, 2018, Duke Energy Carolinas and the Commercial Group filed a Partial Stipulation and Settlement Agreement to be considered in conjunction with the Stipulation.

Components of the Grid Rider Stipulation included:

- Duke Energy Carolinas would recover grid improvement costs through a pilot, three-year Grid Rider except for costs related to targeted undergrounding of power lines, cable and conduit replacement, and power pole replacement;
- Excluded costs were to be deferred with a return until Duke Energy Carolinas' next base rate case proceeding; and
- Costs incurred during the three-year pilot, both rider recoverable and deferred, were subject to a 4.5 percent cumulative cap of total annual electric service revenue.

On June 22, 2018, the NCUC issued an order approving the Stipulation of Partial Settlement and requiring a revenue reduction. The order also included the following material components not covered in the Stipulation:

- Recovery of \$554 million of deferred coal ash basin closure costs over a five-year period with a return at Duke Energy Carolinas' WACC;
- Assessment of a \$70 million management penalty ratably over a five-year period by reducing the annual recovery of the deferred coal ash costs;
- Denial of Duke Energy Carolinas' request for recovery of future estimated ongoing annual coal ash costs of \$201 million with approval to defer such costs with a return at Duke Energy Carolinas' WACC, to be considered for recovery in the next rate case;
- Inclusion in rates of costs related to the W.S. Lee CC, two new solar facilities, and AMI deployment as requested;
- Recovery of Lee Nuclear Station licensing and development cost of \$347 million over a 12-year period, but denial of a return on the deferred balance of costs;

- Reduction in revenue related to lower income tax expense resulting from the Tax Act, and a requirement to maintain all excess deferred income tax (EDIT) resulting from the Tax Act in a regulatory liability account pending flow back to customers as approved by the commission at the earlier of three years or Duke Energy Carolinas' next general rate case proceeding; and
- Denial of the proposed Grid Rider Stipulation related to grid improvement costs and denial of deferral accounting treatment of the costs at this time. Duke Energy Carolinas may petition for deferral of grid modernization costs outside of a general rate case proceeding if it can show financial hardship or a stipulation that includes greater consensus among intervening parties on costs being classified as grid modernization.

As a result of the Order, Duke Energy Carolinas recorded a pretax charge of approximately \$150 million to Impairment charges and Operation, maintenance and other on the Consolidated Statements of Operations. The charge is primarily related to the denial of a return on the Lee Nuclear Project and for previously recognized return impacted by the coal ash management penalty described above. On July 27, 2018, NCUC approved Duke Energy Carolinas' compliance filing. As a result, revised customer rates were effective on August 1, 2018.

On July 20, 2018, the North Carolina Attorney General filed a Notice of Appeal to the North Carolina Supreme Court from the June 22, 2018, Order Accepting Stipulation, Deciding Contested Issues and Requiring Revenue Reduction issued by the NCUC. The Attorney General contends the commission's order should be reversed and remanded, as it is in excess of the commission's statutory authority; affected by errors of law; unsupported by competent, material and substantial evidence in view of the entire record as submitted; and arbitrary or capricious. The Sierra Club, North Carolina Sustainable Energy Association, North Carolina Justice Center, North Carolina Housing Coalition, Natural Resource Defense Council and Southern Alliance for Clean Energy have also filed Notices of Appeal to the North Carolina Supreme Court from the June 22, 2018, Order Accepting Stipulation, Deciding Contested Issues and Requiring Revenue Reduction. On August 8, 2018, the Public Staff filed a Notice of Cross Appeal to the North Carolina Supreme Court from the June 22, 2018, Order Accepting Stipulation, Deciding Contested Issues and Requiring Revenue Reduction issued by the NCUC. The Public Staff contends the commission's order should be reversed and remanded, as it is affected by errors of law, and is unsupported by substantial evidence with regard to the commission's failure to consider substantial evidence of coal ash related environmental violations. On November 29, 2018, the North Carolina Attorney General's Office filed a motion with the North Carolina Supreme Court requesting the court consolidate the Duke Energy Carolinas and Duke Energy Progress appeals and enter an order adopting the parties' proposed briefing schedule as set out in the filing. On November 29, 2018, the North Carolina Supreme Court adopted a schedule for briefing set forth in the motion to consolidate the Duke Energy Carolinas and Duke Energy Progress appeals. The Appellee response briefs are due July 29, 2019. Duke Energy Carolinas cannot predict the outcome of this matter.

2018 South Carolina Rate Case

On November 8, 2018, Duke Energy Carolinas filed an application with the PSCSC for a rate increase for retail customers of approximately \$168 million, which represents an approximate 10.0 percent increase in retail revenues. The rate increase is driven by capital investments and environmental compliance progress made by Duke Energy Carolinas since its previous rate case, including

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

the further implementation of Duke Energy Carolinas' generation modernization program, which consists of retiring, replacing and upgrading generation plants, investments in customer service technologies and continued investments in base work to maintain its transmission and distribution systems. The request includes net tax benefits resulting from the Tax Act of \$66 million to reflect the change in ongoing tax expense, primarily from the reduction in the federal income tax rate from 35 to 21 percent, and \$46 million to return EDIT resulting from the federal tax rate change and deferred revenues since January 2018 related to the change and benefits of \$17 million from a reduction in North Carolina state income taxes allocable to South Carolina.

Duke Energy Carolinas also requested approval of its proposed Grid Improvement Plan, adjustments to its Prepaid Advantage Program and a variety of accounting orders related to ongoing costs for environmental compliance, including recovery over a five-year period of \$242 million of deferred coal ash related compliance costs, grid investments between rate changes, incremental depreciation expense, a result of new depreciation rates from the depreciation study approved in the 2017 North Carolina Rate Case above, and the balance of development costs associated with the cancellation of the Lee Nuclear Project. Finally, Duke Energy Carolinas sought approval to establish a reserve and accrual for end of life nuclear costs for nuclear fuel and materials and supplies. An evidentiary hearing is scheduled to begin on March 21, 2019, and a decision and revised customer rates are expected by mid-2019. Duke Energy Carolinas cannot predict the outcome of this matter.

FERC Formula Rate Matter

On July 31, 2017, PMPA filed a complaint with FERC alleging that Duke Energy Carolinas misapplied the formula rate under the PPA between the parties by including in its rates amortization expense associated with regulatory assets and recorded in a certain account without FERC approval. On February 15, 2018, FERC issued an order ruling in favor of PMPA and ordered Duke Energy Carolinas to refund to PMPA all amounts improperly collected under the PPA. Duke Energy Carolinas has issued to PMPA and similarly situated wholesale customers refunds of approximately \$25 million. FERC also set the matter for settlement and hearing. PMPA and other customers filed a protest to Duke Energy Carolinas' refund report claiming that the refunds are inadequate in that (1) Duke Energy Carolinas invoked the limitations periods in the contracts to limit the time period for which the refunds were paid and the customers disagree that this limitation applies, and (2) Duke Energy Carolinas refunded only amounts recovered through a certain account and the customers have asserted that the order applies to all regulatory assets. On July 3, 2018, FERC issued an order accepting Duke Energy Carolinas' refund report and ruling that these two claims are outside the scope of FERC's February order. The settlement agreements and revised formula rates for all parties to the proceeding were filed on December 28, 2018. Duke Energy Carolinas cannot predict the outcome of this matter.

W.S. Lee CC

On April 9, 2014, the PSCSC granted Duke Energy Carolinas and NCEMC a CECPCN for the construction and operation of a 750-megawatt (MW) combined-cycle natural gas-fired generating plant at Duke Energy Carolinas' existing William States Lee Generating Station in Anderson, South Carolina. Duke Energy Carolinas began construction in July 2015 and its share of the cost to build the facility was approximately \$650 million, including AFUDC. Approximately \$600 million is being recovered through base rate or deferral filings in North Carolina and South Carolina. The remaining amount will be included in future rate filings. The project commenced commercial operation on April 5, 2018. NCEMC owns approximately 13 percent of the project.

Lee Nuclear Station

In December 2007, Duke Energy Carolinas applied to the NRC for COLs for two Westinghouse AP1000 reactors for the proposed William States Lee III Nuclear Station to be located at a site in Cherokee County, South Carolina. The NCUC and PSCSC concurred with the prudence of Duke Energy Carolinas incurring certain project development and preconstruction costs through several separately issued orders, although full cost recovery is not guaranteed. In December 2016, the NRC issued a COL for each reactor. Duke Energy Carolinas is not required to build the nuclear reactors as a result of the COLs being issued.

The Duke Energy Carolinas 2017 North Carolina Rate Case filing discussed above included a request to cancel the development of the Lee Nuclear project, recover incurred licensing and development costs and maintain the license issued by the NRC as an option for potential future development. The cancellation request was due to the Westinghouse bankruptcy filing and other market activity. The NCUC Order issued on June 22, 2018, approved the cancellation of the Lee Nuclear Project, allowed Duke Energy Carolinas to continue to maintain the COLs, provided for recovery of the North Carolina retail allocation of project development costs, including AFUDC accrued through December 31, 2017, over 12 years and disallowed any return on the unamortized balance during the 12-year recovery period.

Given the repeal of certain sections of the Base Load Review Act in South Carolina combined with the cancellation of the project, Duke Energy Carolinas determined that it was no longer probable it would be allowed a return on its share of project development costs attributable to South Carolina. As a result, Duke Energy Carolinas recorded a pretax impairment in the second quarter of 2018 of \$29 million within Impairment charges on the Consolidated Statements of Operations and Comprehensive Income.

South Carolina Petition

On June 22, 2018, Duke Energy Carolinas filed a petition with the PSCSC requesting an accounting order to defer certain costs incurred in connection with the addition of the W.S. Lee CC, the ongoing deployment of Duke Energy Carolinas new billing and Customer Information System and the addition of the Carolinas West Primary Distribution Control Center. This request totaling approximately \$33 million was approved on July 25, 2018.

Sale of Hydroelectric (Hydro) Plants

In May 2018, Duke Energy Carolinas entered an agreement for the sale of five hydro plants with a combined 18.7-MW generation capacity in the Western Carolinas region to Northbrook Energy. The completion of the transaction is subject to approval from FERC for the four FERC-licensed plants, as well as other state regulatory agencies and is contingent upon regulatory approval from the NCUC and PSCSC to defer the total estimated loss on the sale of approximately \$40 million. On July 5, 2018, Duke Energy Carolinas filed with NCUC for approval of the sale of the five hydro plants to Northbrook, to transfer the CPCNs for the four North Carolina hydro plants and to establish a regulatory asset for the North Carolina retail portion of the difference between sales proceeds and net book value. On September 4, 2018, the Public Staff filed comments supporting the CPCN transfer with conditions. On September 18, 2018, Duke Energy Carolinas filed reply comments opposing the Public Staff's proposed conditions. On November 29, 2018, the NCUC issued a procedural order and held an evidentiary hearing on this matter on February 5, 2019. On August 28, 2018, Duke Energy Carolinas filed with PSCSC its Application for Approval of Transfer and Sale of Hydroelectric Generation Facilities, Acceptance for Filing of a Power Purchase Agreement and an Accounting Order to Establish a Regulatory Asset. On September 10, 2018, the ORS provided a letter to the commission stating its

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

position on the application and on September 18, 2018, Duke Energy Carolinas requested this matter be carried over to allow Duke Energy Carolinas time to discuss certain accounting issues with the ORS. On August 9, 2018, Duke Energy Carolinas and Northbrook filed a joint Application for Transfer of Licenses with the FERC. On December 27, 2018, the FERC issued its Order Approving Transfer of Licenses ("Order") for the four FERC-licensed hydro plants. On January 18, 2019, Duke Energy Carolinas and Northbrook Carolina Hydro II, LLC requested a six-month extension of time to comply with the requirement of the Order that Northbrook submit to FERC certified copies of all instruments of conveyance and signed acceptance sheets within 60 days of the date of the Order, given

that compliance by the deadline set in the Order is not possible because the conveyance of the projects is contingent on the receipt of state regulatory approvals, which are not anticipated to be issued by February 25, 2019.

If commission approvals are not received, Duke Energy Carolinas can cancel the sales agreement and retain the hydro facilities. If commission approvals are received, the closing is expected to occur during the second quarter of 2019. After closing, Duke Energy Carolinas will purchase all the capacity and energy generated by these facilities at the avoided cost for five years through power purchase agreements. Duke Energy Carolinas cannot predict the outcome of this matter.

Duke Energy Progress

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Progress' Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2018	2017		
Regulatory Assets^(a)				
AROs – coal ash	\$ 2,051	\$ 1,975	(h)	(b)
AROs – nuclear and other	429	359		(c)
Accrued pension and OPEB	542	430		(k)
Retired generation facilities	148	170	X	(b)
Storm cost deferrals ^(d)	571	150	X	(b)
Hedge costs deferrals	54	64		(b)
DSM/EE ^(e)	235	264	(i)	(i)
Vacation accrual	41	42		2019
Deferred fuel and purchased power	397	130	(f)	2020
Nuclear deferral	46	35		2020
PISCC and deferred operating expenses	36	38	X	2054
AMI	67	75		(b)
NCEMPA deferrals	50	53	(g)	2042
Other	147	74		(b)
Total regulatory assets	4,814	3,859		
Less: current portion	703	352		
Total noncurrent regulatory assets	\$ 4,111	\$ 3,507		
Regulatory Liabilities^(a)				
Costs of removal	\$ 1,878	\$ 2,122	X	(i)
Accrued pension and OPEB	93	—		(k)
Net regulatory liability related to income taxes ^(j)	1,863	1,854		(b)
Deferred fuel and purchased power	—	1	(f)	2020
Other	299	161		(b)
Total regulatory liabilities	4,133	4,138		
Less: current portion	178	139		
Total noncurrent regulatory liabilities	\$ 3,955	\$ 3,999		

(a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.

(b) The expected recovery or refund period varies or has not been determined.

(c) Recovery period for costs related to nuclear facilities runs through the decommissioning period of each unit.

(d) South Carolina storm costs are included in rate base.

(e) Included in rate base.

(f) Pays interest on over-recovered costs in North Carolina. Includes certain purchased power costs in North Carolina and South Carolina and costs of distributed energy in South Carolina.

(g) South Carolina retail allocated costs are earning a return.

(h) Earns a debt and equity return on coal ash expenditures for North Carolina and South Carolina retail customers as permitted by various regulatory orders.

(i) Includes incentives on DSM/EE investments and is recovered through an annual rider mechanism.

(j) Recovered over the life of the associated assets.

(k) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.

(l) Includes regulatory liabilities related to the change in the federal tax rate as a result of the Tax Act and the change in the North Carolina tax rate, both discussed in Note 23.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

2017 North Carolina Rate Case

On June 1, 2017, Duke Energy Progress filed an application with the NCUC for a rate increase for retail customers of approximately \$477 million, which represented an approximate 14.9 percent increase in annual base revenues. Subsequent to the filing, Duke Energy Progress adjusted the requested amount to \$420 million, representing an approximate 13 percent increase. The rate increase is driven by capital investments subsequent to the previous base rate case, costs of complying with CCR regulations and the Coal Ash Act, costs relating to storm recovery, investments in customer service technologies and recovery of costs associated with renewable purchased power.

On December 16, 2016, Duke Energy Progress filed a petition with the NCUC requesting an accounting order to defer certain costs incurred in connection with response to Hurricane Matthew and other significant storms in 2016. The final estimate of incremental operation and maintenance and capital costs of \$116 million was filed with the NCUC in September 2017. On July 10, 2017, the NCUC consolidated Duke Energy Progress' storm deferral request into the Duke Energy Progress rate case docket for decision.

On November 22, 2017, Duke Energy Progress and the Public Staff filed an Agreement and Stipulation of Partial Settlement resolving certain portions of the proceeding. Terms of the settlement included a return on equity of 9.9 percent and a capital structure of 52 percent equity and 48 percent debt. As a result of the settlement, in 2017 Duke Energy Progress recorded pretax charges totaling approximately \$25 million to Impairment charges and Operation, maintenance and other on the Consolidated Statements of Operations, principally related to disallowances from rate base of certain projects at the Mayo and Sutton plants. On February 23, 2018, the NCUC issued an order approving the stipulation. The order also included the following material components not covered in the stipulation:

- Recovery of the remaining \$234 million of deferred coal ash basin closure costs over a five-year period with a return at Duke Energy Progress' WACC, excluding \$10 million of retail deferred coal ash basin costs related to ash hauling at Duke Energy Progress' Asheville Plant;
- Assessment of a \$30 million management penalty ratably over a five-year period by reducing the annual recovery of the deferred coal ash costs;
- Denial of Duke Energy Progress' request for recovery of future estimated ongoing annual coal ash costs of \$129 million with approval to defer such costs with a return at Duke Energy Progress' WACC, to be considered for recovery in the next rate case; and
- Approval to recover \$51 million of the approximately \$80 million deferred storm costs over a five-year period with amortization beginning in October 2016. The order did not allow the deferral of the associated capital costs or a return on the deferred balance during the deferral period.

The order also impacted certain amounts that were similarly recorded on Duke Energy Carolinas' Consolidated Balance Sheets. As a result of the order, Duke Energy Progress and Duke Energy Carolinas recorded pretax charges of \$68 million and \$14 million, respectively, in the first quarter of 2018 to Impairment charges, Operation, maintenance and other and Interest Expense on the Consolidated Statements of Operations. These charges primarily related to the coal ash basin disallowance and previously recognized return impacted by the coal ash management penalty and deferred storm cost adjustments. Revised customer rates became effective on March 16, 2018.

On May 15, 2018, the Public Staff filed a Notice of Cross Appeal to the North Carolina Supreme Court from the February 23, 2018, Order Accepting Stipulation, Deciding Contested Issues and Granting Partial Rate Increase issued by the NCUC. The Public Staff contend the commission's order should be reversed and remanded, as it is affected by errors of law, and is unsupported by competent, material and substantial evidence in view of the entire record as submitted. The North Carolina Attorney General and Sierra Club have also filed Notices of Appeal to the North Carolina Supreme Court from the February 23, 2018, Order Accepting Stipulation, Deciding Contested Issues and Granting Partial Rate Increase. On November 29, 2018, the North Carolina Attorney General's Office filed a motion with the North Carolina Supreme Court requesting the court consolidate the Duke Energy Progress and Duke Energy Carolinas appeals and enter an order adopting the parties' proposed briefing schedule as set out in the filing. On November 29, 2018, the North Carolina Supreme Court adopted a schedule for briefing set forth in the motion to consolidate the Duke Energy Progress and Duke Energy Carolinas appeals. The Appellee response briefs are due July 29, 2019. Duke Energy Progress cannot predict the outcome of this matter.

2016 South Carolina Rate Case

In December 2016, the PSCSC approved a rate case settlement agreement among the ORS, intervenors and Duke Energy Progress. Terms of the settlement agreement included an approximate \$56 million increase in revenues over a two-year period. An increase of approximately \$38 million in revenues was effective January 1, 2017, and an additional increase of approximately \$19 million in revenues was effective January 1, 2018. Duke Energy Progress amortized approximately \$19 million from the cost of removal reserve in 2017. Other settlement terms included a rate of return on equity of 10.1 percent, recovery of coal ash costs incurred from January 1, 2015, through June 30, 2016, over a 15-year period and ongoing deferral of allocated ash basin closure costs from July 1, 2016, until the next base rate case. The settlement also provides that Duke Energy Progress will not seek an increase in rates in South Carolina to occur prior to 2019, with limited exceptions.

2018 South Carolina Rate Case

On November 8, 2018, Duke Energy Progress filed an application with the PSCSC for a rate increase for retail customers of approximately \$59 million, which represents an approximate 10.3 percent increase in annual base revenues. The rate increase is driven by capital investments and environmental compliance progress made by Duke Energy Progress since its previous rate case, including the further implementation of Duke Energy Progress' generation modernization program, which consists of retiring, replacing and upgrading generation plants, investments in customer service technologies and continued investments in base work to maintain its transmission and distribution systems. The request includes net tax benefits of \$15 million consisting of a \$12 million increase due to the expiration of EDITs related to reductions in North Carolina state income taxes allocable to South Carolina and decreases resulting from the Tax Act of \$17 million to reflect the change in ongoing tax expense, primarily the reduction in the federal income tax rate from 35 to 21 percent, and \$10 million to return EDIT resulting from the federal tax rate change and deferred revenues since January 2018 related to the change.

Duke Energy Progress also requested approval of its proposed Grid Improvement Plan, approval of a Prepaid Advantage Program and a variety of accounting orders related to ongoing costs for environmental compliance, including recovery over a five-year period of \$51 million of deferred coal ash related compliance costs, AML deployment, grid investments between rate

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

changes and regulatory asset treatment related to the retirement of a generating plant located in Asheville, North Carolina. Finally, Duke Energy Progress sought approval to establish a reserve and accrual for end of life nuclear costs for materials and supplies and nuclear fuel. An evidentiary hearing is scheduled to begin on April 11, 2019, and a decision and revised customer rates are expected by mid-2019. Duke Energy Progress cannot predict the outcome of this matter.

Western Carolinas Modernization Plan

On November 4, 2015, Duke Energy Progress announced a Western Carolinas Modernization Plan, which included retirement of the existing Asheville coal-fired plant, the construction of two 280-MW combined-cycle natural gas plants having dual-fuel capability, with the option to build a third natural gas simple cycle unit in 2023 based upon the outcome of initiatives to reduce the region's power demand. The plan also included upgrades to existing transmission lines and substations, installation of solar generation and a pilot battery storage project. These investments will be made within the next seven years. Duke Energy Progress is also working with the local natural gas distribution company to upgrade an existing natural gas pipeline to serve the natural gas plant.

On March 28, 2016, the NCUC issued an order approving a CPCN for the new combined-cycle natural gas plants, but denying the CPCN for the contingent simple cycle unit without prejudice to Duke Energy Progress to refile for approval in the future. On March 28, 2018, Duke Energy Progress filed an annual progress report for the construction of the combined-cycle plants with the NCUC, with an estimated cost of \$893 million. Site preparation activities for the combined-cycle plants are complete and construction of these plants began in 2017, with an expected in-service date in late 2019.

On October 8, 2018, Duke Energy Progress filed an application with the NCUC for a CPCN to construct the Hot Springs Microgrid Solar and Battery Storage Facility. On November 30, 2018, the NCUC issued an order scheduling hearings, requiring filing of testimony, establishing discovery guidelines and requiring public notice. On February 7, 2019, Duke Energy Progress made a joint filing with the Public Staff, which accepted the Public Staff's proposed conditions and requested that the NCUC cancel the evidentiary hearing. Duke Energy Progress cannot predict the outcome of this matter.

The carrying value of the 376-MW Asheville coal-fired plant, including associated ash basin closure costs, of \$327 million and \$385 million is included in Generation facilities to be retired, net on Duke Energy Progress' Consolidated Balance Sheets as of December 31, 2018, and 2017, respectively. Duke Energy Progress' request for a regulatory asset at the time of retirement with amortization over a 10-year period was approved by the NCUC on February 23, 2018.

Shearon Harris Nuclear Plant Expansion

In 2006, Duke Energy Progress selected a site at Harris to evaluate for possible future nuclear expansion. On February 19, 2008, Duke Energy Progress filed its COL application with the NRC for two Westinghouse AP1000 reactors at Harris, which the NRC docketed for review. On May 2, 2013, Duke Energy Progress filed a letter with the NRC requesting the NRC to suspend its review activities associated with the COL at the Harris site. The NCUC and PSCSC approved deferral of retail costs. Total deferred costs are approximately \$43 million as of December 31, 2018, and are recorded in Regulatory assets on Duke Energy Progress' Consolidated Balance Sheets. On November 17, 2016, the FERC approved Duke Energy Progress' rate recovery request filing for the wholesale ratepayers' share of the abandonment costs, including a debt-only return to be recovered through revised formula rates and amortized over a

15-year period beginning May 1, 2014. As part of the settlement agreement for the 2017 North Carolina Rate Case discussed above, Duke Energy Progress will amortize the regulatory asset over an eight-year period. NCUC approved the settlement on February 23, 2018.

South Carolina Petitions

On June 22, 2018, Duke Energy Progress filed a petition with the PSCSC seeking an accounting order authorizing Duke Energy Progress to adopt new depreciation rates, effective March 16, 2018, that reflect the results of Duke Energy Progress' most recent depreciation study. Also on June 22, 2018, Duke Energy Progress filed a petition with the PSCSC requesting an accounting order to defer certain costs incurred in connection with the deployment of AMI, the ongoing deployment of Duke Energy Progress' new billing and Customer Information System, new depreciation rates and costs incurred in connection with the return of certain excess deferred state income taxes from North Carolina. These requests totaling approximately \$20 million were approved on July 25, 2018.

FERC Form 1 Reporting Matter

On October 18, 2017, Fayetteville Public Works Commission (FPWC) filed with FERC a complaint against Duke Energy Progress. In the complaint, FPWC alleges that Duke Energy Progress' change in its method of reporting materials and supplies inventory on FERC Form 1 for 2015 constituted a change in accounting practice that Duke Energy Progress was not permitted to implement without first obtaining FERC approval. On April 23, 2018, FERC issued an order finding that Duke Energy Progress' new reporting methodology was not proper and required Duke Energy Progress to revise its FERC Form 1s beginning in 2014 and to issue refunds to formula rate customers. Duke Energy Progress estimates that these refunds will total approximately \$14 million. On May 23, 2018, Duke Energy Progress filed a request for rehearing alleging that FERC's order is incorrect. Duke Energy Progress revised its FERC Form 1 filings in June 2018. On August 31, 2018, Duke Energy Progress filed with FERC a refund report memorializing its payment of refunds to FPWC. Duke Energy Progress cannot predict the outcome of this matter.

Tax Act

As ordered by the NCUC on October 5, 2018, Duke Energy Progress filed a proposal on October 25, 2018, to adjust rates to reflect the reduction in federal corporate income tax rate from 35 to 21 percent for taxable years beginning after December 31, 2017, as outlined in the Tax Act. Duke Energy Progress proposed that this rate decrement be effective for service rendered on and after December 1, 2018. On November 28, 2018, the NCUC approved the proposal to implement the change in the federal corporate income tax rate and effective December 1, 2018, Duke Energy Progress implemented the rate reduction. Also, as ordered by the NCUC on October 5, 2018, Duke Energy Progress shall continue to hold in a deferred regulatory liability account the difference between revenues billed under the prior federal corporate income tax rate and the federal corporate income tax rate resulting from the Tax Act for the period January 1, 2018 through November 30, 2018. The disposition of such regulatory liability may be considered in Duke Energy Progress' next general rate case proceeding or in three years, whichever is sooner. EDIT related to the corporate income tax rate reduction shall be held in a deferred tax regulatory liability account until they can be addressed for ratemaking purposes in the next general rate case proceeding or in three years, whichever is sooner.

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Florida

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Florida's Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2018	2017		
Regulatory Assets^(a)				
AROs – coal ash ^(c)	\$ 10	\$ 9		(b)
AROs – nuclear and other ^(c)	172	296		(b)
Accrued pension and OPEB ^(c)	532	476	X	(g)
Retired generation facilities ^(c)	219	216	X	(b)
Storm cost deferrals ^{(c)(h)}	382	376	(e)	2021
Nuclear asset securitized balance, net	1,093	1,142		2036
Hedge costs deferrals	20	30		2020
DSM/EE ^(c)	21	17	X	2023
Deferred fuel and purchased power ^(c)	203	219	(f)	2020
AMI ^(c)	60	75	X	2032
Other	176	36	(d)	(b)
Total regulatory assets	2,888	2,892		
Less: current portion	434	389		
Total noncurrent regulatory assets	\$ 2,454	\$ 2,503		
Regulatory Liabilities^(a)				
Costs of removal ^(c)	\$ 257	\$ 415	(d)	(b)
Net regulatory liability related to income taxes ^(c)	847	948		(b)
Accrued pension and OPEB	56	—	X	(g)
Deferred fuel and purchased power ^(c)	16	—	(f)	2020
Other	20	18	(d)	(b)
Total regulatory liabilities	1,196	1,381		
Less: current portion	102	74		
Total noncurrent regulatory liabilities	\$ 1,094	\$ 1,307		

(a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.

(b) The expected recovery or refund period varies or has not been determined.

(c) Included in rate base.

(d) Certain costs earn a return.

(e) Earns a debt return/interest once collections begin.

(f) Earns commercial paper rate.

(g) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.

(h) Balance includes \$165 million for Hurricane Michael. Duke Energy Florida expects to seek recovery of these costs in the first half of 2019.

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Combined Notes to Consolidated Financial Statements – (Continued)

Storm Restoration Cost Recovery

In September 2017, Duke Energy Florida's service territory suffered significant damage from Hurricane Irma, resulting in approximately 1 million customers experiencing outages. In the fourth quarter of 2017, Duke Energy Florida also incurred preparation costs related to Hurricane Nate. On December 28, 2017, Duke Energy Florida filed a petition with the FPSC to recover incremental storm restoration costs for Hurricane Irma and Hurricane Nate and to replenish the storm reserve. On February 6, 2018, the FPSC approved a stipulation that would apply tax savings resulting from the Tax Act toward storm costs effective January 2018 in lieu of implementing a storm surcharge. Storm costs are currently expected to be fully recovered by approximately mid-2021. On May 31, 2018, Duke Energy Florida filed a petition for approval of actual storm restoration costs and associated recovery process related to Hurricane Irma and Hurricane Nate. The petition is seeking the approval for the recovery in the amount of \$510 million in actual recoverable storm restoration costs, including the replenishment of Duke Energy Florida's storm reserve of \$132 million, and the process for recovering these recoverable storm costs. On August 20, 2018, the FPSC approved Duke Energy Florida's unopposed Motion for Continuance filed August 17, 2018, to allow for an evidentiary hearing in this matter. On January 28, 2019, Duke Energy Florida made a supplemental filing to reduce the total storm cost recovery from \$510 million to \$508 million. The commission has scheduled the hearing to begin on May 21, 2019. At December 31, 2018, Duke Energy Florida's Consolidated Balance Sheets included approximately \$217 million of recoverable costs under the FPSC's storm rule in Regulatory assets within Current Assets and Other Noncurrent Assets related to storm recovery for Hurricane Irma and Hurricane Nate. Duke Energy Florida cannot predict the outcome of this matter.

In October 2018, Duke Energy Florida's service territory suffered damage when Hurricane Michael made landfall as a strong Category 4 hurricane with maximum sustained winds of 155 mph. The storm caused catastrophic damage from wind and storm surge, particularly from Panama City Beach to Mexico Beach, resulting in widespread outages and significant damage to transmission and distribution facilities across the central Florida Panhandle. In response to Hurricane Michael, Duke Energy Florida restored service to approximately 72,000 customers. Duke Energy Florida incurred approximately \$200 million of costs resulting from the hurricane restoration efforts. Approximately \$35 million of the costs are included in Net property, plant and equipment on the Consolidated Balance Sheets as of December 31, 2018. The remaining \$165 million of costs represent recoverable costs under the FPSC's storm rule and Duke Energy Florida's Open Access Transmission Tariff formula rates and are included in Regulatory assets within Other Noncurrent Assets on the Consolidated Balance Sheets as of December 31, 2018. Duke Energy Florida anticipates filing a petition with the FPSC in the first half of 2019 to recover these costs, consistent with the provisions in the 2017 Settlement. Duke Energy Florida cannot predict the outcome of this matter.

Tax Act

Pursuant to Duke Energy Florida's 2017 Settlement, on May 31, 2018, Duke Energy Florida filed a petition related to the Tax Act, which included revenue requirement impacts of annual tax savings of \$134 million and estimated annual amortization of EDIT of \$67 million for a total of \$201 million. Of this amount, \$50 million would be offset by accelerated depreciation of Crystal River 4 and 5 coal units and an estimated \$151 million would be offset by Hurricane Irma storm cost recovery as explained in the Storm Restoration

Cost Recovery section above. On December 27, 2018, Duke Energy Florida filed actual EDIT balances and amortization based on its 2017 filed tax return. This increased the revenue requirement impact of the amortization of EDIT by \$4 million, from \$67 million to \$71 million. On January 8, 2019, the FPSC approved a joint motion by Duke Energy Florida and the Office of Public Counsel resolving all stipulated positions. As part of that stipulation, Duke Energy Florida will seek a Private Letter Ruling from the IRS on its treatment of COR as mostly protected by tax normalization rules. If the IRS rules that COR is not protected by tax normalization rules, then Duke Energy Florida will make a final adjustment to the amortization of EDIT and an adjustment to the storm recovery amount retroactive to January 2018. Duke Energy Florida cannot predict the outcome of this matter.

Citrus County CC

On October 2, 2014, the FPSC granted Duke Energy Florida a Determination of Need for the construction of a 1,640-MW combined-cycle natural gas plant in Citrus County, Florida. At that time, the estimated cost of the facility was \$1.5 billion, including AFUDC. On May 5, 2015, the Florida Department of Environmental Protection approved Duke Energy Florida's Site Certification Application and construction began in October 2015. On July 10, 2018, the FPSC approved Duke Energy Florida's request to include the annual revenue requirement of \$200 million for the new Citrus County combined-cycle units in base rates. The first 820-MW power block came on-line on October 26, 2018, and the rate increase for this unit was effective in December 2018. The second 820-MW power block came on-line November 24, 2018. The rate increase for the second unit was effective in January 2019. The ultimate cost of the facility is estimated to be \$1.6 billion, and Duke Energy Florida recorded Impairment charges on Duke Energy's Consolidated Statements of Operations of \$60 million in the fourth quarter of 2018 for the overrun, which may change in light of recoveries from the EPC contractor. The plant began receiving natural gas from the Sabal Trail pipeline in August 2018. As a result of the combined-cycle natural gas plant coming on-line, Crystal River coal-fired units 1 and 2 were retired in December 2018. See Note 5 for additional information on Citrus.

Solar Base Rate Adjustment

On July 31, 2018, Duke Energy Florida petitioned the FPSC to include in base rates the revenue requirements for its first two solar generation projects, the Hamilton Project and the Columbia Project, as authorized by the 2017 Settlement. The Hamilton Project, which was placed into service on December 22, 2018, has an annual retail revenue requirement of \$15 million and the increase was effective in January 2019. The Columbia Project has a projected annual revenue requirement of \$14 million and a projected in-service date in early 2020; the associated rate increase would take place with the first month's billing cycle after the Columbia Project goes into service. At its October 30, 2018, Agenda Conference, the FPSC approved the rate increase related to the Hamilton Project to go into effect beginning with the first billing cycle in January 2019 under its file and suspend authority. Rates are subject to true up pending the outcome of the final hearing, which is scheduled to take place on April 2, 2019. Duke Energy Florida cannot predict the outcome of this matter.

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Ohio

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Ohio's Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2018	2017		
Regulatory Assets^(a)				
AROs – coal ash	\$ 20	\$ 17	X	(b)
Accrued pension and OPEB	146	139		(g)
Storm cost deferrals	4	5		2023
Hedge costs deferrals	5	6		(b)
DSM/EE	10	18	(f)	(e)
Grid modernization	31	39	X	(e)
Vacation accrual	5	5		2019
Deferred fuel and purchased power	2	—		2019
PISCC and deferred operating expenses ^(c)	17	19	X	2083
Transmission expansion obligation	43	50		(e)
MGP	99	91		(b)
AMI	46	6		(b)
East Bend deferrals	47	45	X	(b)
Deferred pipeline integrity costs	14	12	X	(b)
Other	75	42		(b)
Total regulatory assets	564	494		
Less: current portion	33	49		
Total noncurrent regulatory assets	\$ 531	\$ 445		
Regulatory Liabilities^(a)				
Costs of removal	\$ 126	\$ 189		(d)
Net regulatory liability related to income taxes	678	688		(b)
Accrued pension and OPEB	18	16		(g)
Other	75	34		(b)
Total regulatory liabilities	897	927		
Less: current portion	57	36		
Total noncurrent regulatory liabilities	\$ 840	\$ 891		

(a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.

(b) The expected recovery or refund period varies or has not been determined.

(c) Included in rate base.

(d) Recovery over the life of the associated assets.

(e) Recovered via a rider mechanism.

(f) Includes incentives on DSM/EE investments.

(g) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.

2017 Electric Security Plan

On June 1, 2017, Duke Energy Ohio filed with the PUCO a request for a standard service offer in the form of an ESP. On February 15, 2018, the procedural schedule was suspended to facilitate ongoing settlement discussions. On April 13, 2018, Duke Energy Ohio filed a Motion to consolidate this proceeding with several other cases currently pending before the PUCO, including, but not limited to, its Electric Base Rate Case. Additionally, on April 13, 2018, Duke Energy Ohio, along with certain intervenors, filed a Stipulation and Recommendation (Stipulation) with the PUCO resolving certain issues in this proceeding. The term of the ESP would be from June 1, 2018, to May 31, 2025, and includes continuation of market-based customer rates through

competitive procurement processes for generation, continuation and expansion of existing rider mechanisms and proposed new rider mechanisms relating to regulatory mandates, costs incurred to enhance the customer experience and transform the grid and a service reliability rider for vegetation management. The Stipulation establishes a regulatory model for the next seven years via the approval of the ESP and continues the current model for procuring supply for non-shopping customers, including recovery mechanisms. On December 19, 2018, the PUCO approved the Stipulation without material modification. Several parties have filed applications for rehearing. On February 6, 2019, the PUCO granted the parties rehearing. Duke Energy Ohio cannot predict the outcome of this matter.

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

Electric Base Rate Case

Duke Energy Ohio filed with the PUCO an electric distribution base rate case application and supporting testimony in March 2017. Duke Energy Ohio requested an estimated annual increase of approximately \$15 million and a return on equity of 10.4 percent. The application also included requests to continue certain current riders and establish new riders. On September 26, 2017, the PUCO staff filed a report recommending a revenue decrease between approximately \$18 million and \$29 million and a return on equity between 9.22 percent and 10.24 percent. On April 13, 2018, Duke Energy Ohio filed a Motion to consolidate this proceeding with several other cases pending before the PUCO. On April 13, 2018, Duke Energy Ohio, along with certain intervenors, filed the Stipulation with the PUCO resolving numerous issues including those in this base rate proceeding. Major components of the Stipulation related to the base distribution rate case include a \$19 million decrease in annual base distribution revenue with a return on equity unchanged from the current rate of 9.84 percent based upon a capital structure of 50.75 percent equity and 49.25 percent debt. Upon approval of new rates, Duke Energy Ohio's rider for recovering its initial SmartGrid implementation ends as these costs will be recovered through base rates. The Stipulation also renews 14 existing riders, some of which were included in the company's ESP, and adds two new riders including the Enhanced Service Reliability Rider to recover vegetation management costs not included in base rates, up to \$10 million per year (operation and maintenance only) and the PowerForward Rider to recover costs incurred to enhance the customer experience and further transform the grid (operation and maintenance and capital). In addition to the changes in revenue attributable to the Stipulation, Duke Energy Ohio's capital-related riders, including the Distribution Capital Investments Rider, began to reflect the lower federal income tax rate associated with the Tax Act with updates to customers' bills beginning April 1, 2018. This change reduces electric revenue by approximately \$20 million on an annualized basis. On December 19, 2018, the PUCO approved the Stipulation without material modification. New base rates were implemented effective January 2, 2019. Several parties have filed applications for rehearing. On February 6, 2019, the PUCO granted the parties rehearing. Duke Energy Ohio cannot predict the outcome of this matter.

Ohio Valley Electric Corporation

On March 31, 2017, Duke Energy Ohio filed for approval to adjust its existing price stabilization rider (Rider PSR), which is currently set at zero dollars, to pass through net costs related to its contractual entitlement to capacity and energy from the generating assets owned by OVEC. Duke Energy Ohio sought deferral authority for net costs incurred from April 1, 2017, until the new rates under Rider PSR are put into effect. On April 13, 2018, Duke Energy Ohio filed a Motion to consolidate this proceeding with several other cases currently pending before the PUCO. Also on April 13, 2018, Duke Energy Ohio, along with certain intervenors, filed a Stipulation with the PUCO resolving numerous issues including those related to Rider PSR. The Stipulation activates Rider PSR for recovery of net costs incurred from January 1, 2018 through May 2025. On December 19, 2018, the PUCO approved the Stipulation without material modification. Several parties have filed applications for rehearing. On February 6, 2019, the PUCO granted the parties rehearing. Duke Energy Ohio cannot predict the outcome of this matter. See Note 17 for additional discussion of Duke Energy Ohio's ownership interest in OVEC.

Tax Act – Ohio

On July 25, 2018, Duke Energy Ohio filed an application to establish a new rider to implement the benefits of the Tax Act for electric distribution customers. Duke Energy Ohio requested commission approval to implement the

rider effective October 1, 2018, as a credit to all distribution customers based upon a percent reduction to Duke Energy Ohio's distribution rates. The new rider will flow through to customers the benefit of the lower statutory federal tax rate from 35 to 21 percent since January 1, 2018, all future benefits of the lower tax rates and a full refund of deferred income taxes collected at the higher tax rates in prior years. Deferred income taxes subject to normalization rules will be refunded consistent with federal law and deferred income taxes not subject to normalization rules will be refunded over a 10-year period. Duke Energy Ohio's transmission rates reflect lower federal income tax but guidance from FERC on amortization of both protected and unprotected transmission-related EDITs is still pending. On October 24, 2018, the PUCO issued a Finding and Order that, among other things, directed all utilities over which the commission has rate-making authority to file an application to pass the benefits of the Tax Act to customers by January 1, 2019, unless otherwise exempted or directed by the PUCO. Duke Energy Ohio's July 25, 2018, filing for electric distribution operations is consistent with the commission's October 24, 2018, Finding and Order and no further action is needed. On February 20, 2019, the PUCO approved the application without material modification. Rates will be effective March 1, 2019. On December 21, 2018, Duke Energy Ohio filed an application to change its base rates and establish a new rider to implement the benefits of the Tax Act for natural gas customers. Duke Energy Ohio requested commission approval to implement the changes and rider effective April 1, 2019. The new rider will flow through to customers the benefit of the lower statutory federal tax rate from 35 to 21 percent since January 1, 2018, all future benefits of the lower tax rates and a full refund of deferred income taxes collected at the higher tax rates in prior years. Deferred income taxes subject to normalization rules will be refunded consistent with federal law and deferred income taxes not subject to normalization rules will be refunded over a 10-year period. The PUCO has not yet ruled on the application for changes for natural gas customers. Duke Energy Ohio cannot predict the outcome of this matter.

Energy Efficiency Cost Recovery

On March 28, 2014, Duke Energy Ohio filed an application for recovery of program costs, lost distribution revenue and performance incentives related to its energy efficiency and peak demand reduction programs. These programs are undertaken to comply with environmental mandates set forth in Ohio law. The PUCO approved Duke Energy Ohio's application but found that Duke Energy Ohio was not permitted to use banked energy savings from previous years in order to calculate the amount of allowed incentive. This conclusion represented a change to the cost recovery mechanism that had been agreed upon by intervenors and approved by the PUCO in previous cases. The PUCO granted the applications for rehearing filed by Duke Energy Ohio and an intervenor. On January 6, 2016, Duke Energy Ohio and the PUCO Staff entered into a stipulation, pending the PUCO's approval, to resolve issues related to performance incentives and the PUCO Staff audit of 2013 costs, among other issues. In December 2015, based upon the stipulation, Duke Energy Ohio re-established approximately \$20 million of the revenues that had been previously reversed. On October 26, 2016, the PUCO issued an order approving the stipulation without modification. In December 2016, the PUCO granted the intervenors request for rehearing for the purpose of further review. Duke Energy Ohio cannot predict the outcome of this matter.

On June 15, 2016, Duke Energy Ohio filed an application for approval of a three-year energy efficiency and peak demand reduction portfolio of programs. A stipulation and modified stipulation were filed on December 22, 2016, and January 27, 2017, respectively. Under the terms of the stipulations, which included support for deferral authority of all costs and a cap on shared savings incentives, Duke Energy Ohio has offered its energy efficiency and peak demand reduction programs throughout 2017. On February 3, 2017, Duke Energy Ohio filed for deferral

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

authority of its costs incurred in 2017 in respect of its proposed energy efficiency and peak demand reduction portfolio. On September 27, 2017, the PUCO issued an order approving a modified stipulation. The modifications impose an annual cap of approximately \$38 million on program costs and shared savings incentives combined, but allowed for Duke Energy Ohio to file for a waiver of costs in excess of the cap in 2017. The PUCO approved the waiver request for 2017 up to a total cost of \$56 million. On November 21, 2017, the PUCO granted Duke Energy Ohio's and intervenor's applications for rehearing of the September 27, 2017, order. On January 10, 2018, the PUCO denied the Ohio Consumers' Counsel's application for rehearing of the PUCO order granting Duke Energy Ohio's waiver request; however, a decision on Duke Energy Ohio's application for rehearing remains pending. Duke Energy Ohio cannot predict the outcome of this matter.

2014 Electric Security Plan

In April 2015, the PUCO modified and approved Duke Energy Ohio's proposed ESP, with a three-year term and an effective date of June 1, 2015. The PUCO approved a competitive procurement process for SSO load, a distribution capital investment rider (Rider DCI) and a tracking mechanism for incremental distribution expenses caused by major storms. The PUCO also approved a placeholder tariff for a price stabilization rider, but denied Duke Energy Ohio's specific request to include Duke Energy Ohio's entitlement to generation from OVEC in the rider at this time; however, the order allows Duke Energy Ohio to submit additional information to request recovery in the future. On May 4, 2015, Duke Energy Ohio filed an application for rehearing requesting the PUCO to modify or amend certain aspects of the order. On May 28, 2015, the PUCO granted all applications for rehearing filed in the case for future consideration. On March 21, 2018, the PUCO issued an order denying Duke Energy Ohio's issues on rehearing. On April 20, 2018, Duke Energy Ohio filed a second application for rehearing based upon the commission's March 21, 2018, Order. On May 16, 2018, the commission issued its third Entry on Rehearing granting in part, and denying in part, Duke Energy Ohio's rehearing request.

On March 9, 2018, Duke Energy Ohio filed a motion to extend its then-current ESP, including all terms and conditions thereof, pending approval of a new ESP. On May 30, 2018, the PUCO granted the request, with modification. Specifically, the PUCO did not extend the cap applicable to Rider DCI beyond July 31, 2018. Duke Energy Ohio sought rehearing of this finding. On July 25, 2018, the PUCO granted the request and allowed a continuing cap on recovery under Rider DCI. On August 24, 2018, OMA and OCC filed an Application for Rehearing of the commission's decision. Duke Energy Ohio filed a Memorandum Contra OCC's request for rehearing of the commission's continuation of Rider DCI on September 4, 2018. On September 19, 2018, the PUCO issued an Order granting rehearing on the matter for further consideration. Duke Energy Ohio cannot predict the outcome of this matter.

On May 21, 2018, the Ohio Manufacturers' Association (OMA) filed a notice of appeal of PUCO's approval of Duke Energy Ohio's ESP with the Ohio Supreme Court, challenging PUCO's approval of Duke Energy Ohio's Price Stability Rider as a placeholder and its Rider DCI to recover incremental revenue requirement for distribution capital since Duke Energy Ohio's last base rate case. On July 16, 2018, the Office of the Ohio Consumers' Counsel (OCC) filed its own appeal of Duke Energy Ohio's ESP with the Ohio Supreme Court raising similar issues to that of the OMA. Duke Energy Ohio filed a Motion to Intervene in the two Ohio Supreme Court appeals. OMA's Supreme Court brief was filed on August 20, 2018. PUCO submitted its brief on October 26, 2018, and Duke Energy Ohio filed its brief on October 29, 2018. The OCC's Supreme Court brief was filed on October 15, 2018. Duke Energy Ohio filed its brief on December 20, 2018. The PUCO submitted its brief on December 21, 2018. Duke Energy Ohio cannot predict the outcome of this matter.

Natural Gas Pipeline Extension

Duke Energy Ohio is proposing to install a new natural gas pipeline (the Central Corridor Project) in its Ohio service territory to increase system reliability and enable the retirement of older infrastructure. Duke Energy Ohio currently estimates the pipeline development costs and construction activities will range from \$163 million to \$245 million in direct costs (excluding overheads and AFUDC). On January 20, 2017, Duke Energy Ohio filed an amended application with the Ohio Power Siting Board (OPSB) for approval of one of two proposed routes. A public hearing was held on June 15, 2017. In April 2018, Duke Energy Ohio filed a motion with OPSB to establish a procedural schedule and filed supplemental information supporting its application. On December 18, 2018, the OPSB established a procedural schedule that includes a local public hearing on March 21, 2019, and an evidentiary hearing starting on April 9, 2019. If approved, construction of the pipeline extension is expected to be completed before the 2021/2022 winter season. Duke Energy Ohio cannot predict the outcome of this matter.

2012 Natural Gas Rate Case/MGP Cost Recovery

On November 13, 2013, the PUCO issued an order approving a settlement of Duke Energy Ohio's natural gas base rate case and authorizing the recovery of costs incurred between 2008 and 2012 for environmental investigation and remediation of two former MGP sites. The PUCO order also authorized Duke Energy Ohio to continue deferring MGP environmental investigation and remediation costs incurred subsequent to 2012 and to submit annual filings to adjust the MGP rider for future costs. Intervening parties appealed this decision to the Ohio Supreme Court and on June 29, 2017, the Ohio Supreme Court issued its decision affirming the PUCO order. Appellants filed a request for reconsideration, which was denied on September 27, 2017. This matter is now final.

The PUCO order also contained conditional deadlines for completing the MGP environmental investigation and remediation costs at the MGP sites. As of December 31, 2018, Duke Energy Ohio had approximately \$24 million for future remediation costs expected to be incurred at the East End site and approximately \$23 million for future remediation costs expected to be incurred at the West End site included in Regulatory assets within Other Noncurrent Assets on the Consolidated Balance Sheets.

Duke Energy Kentucky Electric Rate Case

On September 1, 2017, Duke Energy Kentucky filed a rate case with the KPSC requesting an increase in electric base rates of approximately \$49 million, which represents an approximate 15 percent increase on the average customer bill. Subsequent to the filing, Duke Energy Kentucky adjusted the requested amount to \$30.1 million, in part to reflect the benefits of the Tax Act, representing an approximate 9 percent increase on the average customer bill. The rate increase was driven by increased investment in utility plant, increased operations and maintenance expenses and recovery of regulatory assets. The application also includes requests to implement an Environmental Surcharge Mechanism to recover environmental costs not recovered in base rates, to establish a Distribution Capital Investment Rider to recover incremental costs of specific programs, to establish a FERC Transmission Cost Reconciliation Rider to recover escalating transmission costs and to modify existing Profit Sharing Mechanism to increase customers' share of proceeds from the benefits of owning generation and to mitigate shareholder risks associated with that generation. An evidentiary hearing concluded on March 8, 2018, and the KPSC issued an order on April 13, 2018. Major components of the Order include approval of an \$8 million increase in base rates with a return on equity at

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

9.725 percent based upon a capital structure of 49 percent equity on a total allocable capitalization of approximately \$650 million. The Order approved the Environmental Surcharge Mechanism Rider and in June 2018 recovery began of capital-related environmental costs, including costs related to ash and ash disposal, and environmental operation and maintenance expenses formerly recovered in base rates, including expenses for environmental reagents and emission allowances. The incremental revenue from this rider will be approximately \$13 million on an annualized basis. The order settles all issues associated with the Tax Act as it relates to the electric business by lowering the income tax component of the revenue requirement and refunding protected EDIT under allowable normalization rules and unprotected EDIT over 10 years. The Order denied requests to implement riders for certain transmission costs and distribution capital investments. Duke Energy Kentucky implemented new base rates on May 1, 2018. On May 3, 2018, Duke Energy Kentucky filed an application for rehearing on certain aspects of the order; on May 23, 2018, the KPSC granted a rehearing. On October 2, 2018, the KPSC issued its rehearing order correcting certain findings in its initial order and making additional changes that are immaterial to the company's earnings.

Duke Energy Kentucky Natural Gas Base Rate Case

On August 31, 2018, Duke Energy Kentucky filed an application with the KPSC requesting an increase in natural gas base rates of approximately \$11 million, an approximate 11.1 percent average increase across all customer classes. The increase is net of approximately \$5 million in annual savings as a result of the Tax Act. The drivers for this case are capital invested since Duke Energy Kentucky's last rate case in 2009. Duke Energy Kentucky is also seeking implementation of a Weather Normalization Adjustment Mechanism, amortization of regulatory assets and to implement the impacts of the Tax Act, prospectively. On January 30, 2019, Duke Energy Kentucky entered into a settlement agreement with the Attorney General of Kentucky, the only intervenor in the case, which if approved would resolve the matter. The settlement provides for an approximate \$7 million increase and approval of the proposed Weather Normalization Mechanism. A hearing was held on February 5, 2019. A ruling is expected in late first quarter 2019. Duke Energy Kentucky cannot predict the outcome of this matter.

FERC 494 Refund of Regional Transmission Enhancement Projects

FERC Order No. 494 Settlement Agreement (FERC 494 Settlement Agreement) was entered into by most of the PJM transmission owners, including Duke Energy Ohio and Duke Energy Kentucky, and the PJM state regulatory

commissions approximately two years ago and was planned to be effective on January 1, 2016; however, it was not approved by FERC until May 31, 2018. The FERC 494 Settlement Agreement was due to the Seventh Circuit Court of Appeals finding that FERC had failed to adequately justify the costs that the customers in the western part of PJM were being charged for high voltage transmission projects, or Regional Transmission Expansion Plan (RTEP) projects (500 kV and above) built in the east. These costs were being allocated to all PJM customers on a load-ratio share basis but the court determined that these costs were not justifiable to customers in the west, including Duke Energy Ohio and Duke Energy Kentucky, that did not benefit from the RTEP projects. Costs for the periods 2012 through 2015 are expected to be refunded to Duke Energy Ohio and Duke Energy Kentucky on a monthly basis through December 2025. The refund amount for similar costs incurred beginning in 2016 through June 30, 2018, prior to the change in cost allocation by PJM was determined in the third quarter of 2018 and these amounts will be refunded over a 12-month period beginning in July 2018. These refunds, totaling approximately \$47 million for Duke Energy Ohio and Duke Energy Kentucky, have been recorded to Operation, maintenance and other on the Consolidated Statements of Operations for the year ended December 31, 2018.

Regional Transmission Organization Realignment

Duke Energy Ohio, including Duke Energy Kentucky, transferred control of its transmission assets from MISO to PJM, effective December 31, 2011. The PUCO approved a settlement related to Duke Energy Ohio's recovery of certain costs of the RTO realignment via a non-bypassable rider. Duke Energy Ohio is allowed to recover all MTEP costs directly or indirectly charged to Ohio customers. The KPSC also approved a request to effect the RTO realignment, subject to a commitment not to seek double recovery in a future rate case of the transmission expansion fees that may be charged by MISO and PJM in the same period or overlapping periods.

The following table provides a reconciliation of the beginning and ending balance of Duke Energy Ohio's recorded liability for its exit obligation and share of MTEP costs recorded in Other within Current Liabilities and Other Noncurrent Liabilities on the Consolidated Balance Sheets. The retail portions of MTEP costs billed by MISO are recovered by Duke Energy Ohio through a non-bypassable rider. As of December 31, 2018, and 2017, \$43 million and \$50 million, respectively, are recorded in Regulatory assets on Duke Energy Ohio's Consolidated Balance Sheets.

(in millions)	December 31, 2017	Provisions/ Adjustments	Cash Reductions	December 31, 2018
Duke Energy Ohio	\$ 66	\$ (4)	\$ (4)	\$ 58

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Indiana

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Indiana's Consolidated Balance Sheets.

(in millions)	December 31,		Earnings/Pay a Return	Recovery/Refund Period Ends
	2018	2017		
Regulatory Assets^(a)				
AROs – coal ash	\$ 450	\$ 380		(b)
Accrued pension and OPEB	222	197		(f)
Retired generation facilities ^(c)	57	65	X	2026
Hedge costs deferrals	24	25		(b)
DSM/EE	14	21	(e)	(e)
Vacation accrual	11	11		2019
Deferred fuel and purchased power	40	18		2019
PISCC and deferred operating expenses ^(c)	233	274	X	(b)
AMI ^(c)	18	21	X	(b)
Other	88	131		(b)
Total regulatory assets	1,157	1,143		
Less: current portion	175	165		
Total noncurrent regulatory assets	\$ 982	\$ 978		
Regulatory Liabilities^(a)				
Costs of removal	\$ 628	\$ 644		(d)
Net regulatory liability related to income taxes	1,009	998		(b)
Amounts to be refunded to customers	1	10		2019
Accrued pension and OPEB	67	64		(f)
Other	42	31		(b)
Total regulatory liabilities	1,747	1,747		
Less: current portion	25	24		
Total noncurrent regulatory liabilities	\$ 1,722	\$ 1,723		

(a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.

(b) The expected recovery or refund period varies or has not been determined.

(c) Included in rate base.

(d) Recovery over the life of the associated assets.

(e) Includes incentives on DSM/EE investments and is recovered through a tracker mechanism over a two-year period.

(f) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.

FERC Transmission Return on Equity Complaint

Customer groups have filed with the FERC complaints against Midcontinent Independent System Operator, Inc. (MISO) and its transmission-owning members, including Duke Energy Indiana, alleging, among other things, that the current base rate of return on equity earned by MISO transmission owners of 12.38 percent is unjust and unreasonable. The complaints claim, among other things, that the current base rate of return on equity earned by MISO transmission owners should be reduced to 8.67 percent. On January 5, 2015, the FERC issued an order accepting the MISO transmission owners' adder of 0.50 percent to the base rate of return on equity based on participation in an RTO subject to it being applied to a return on equity that is shown to be just and reasonable in the pending return on equity complaints. On December 22, 2015, the presiding FERC ALJ in the first complaint issued an Initial Decision in which the base rate of return on equity was set at 10.32 percent. On September 28, 2016, the Initial Decision in the first complaint was affirmed by FERC, but is subject to rehearing requests. On June 30, 2016, the presiding FERC ALJ in the

second complaint issued an Initial Decision setting the base rate of return on equity at 9.70 percent. The Initial Decision in the second complaint is pending FERC review. On April 14, 2017, the U.S. Court of Appeals for the District of Columbia Circuit, in *Emera Maine v. FERC*, reversed and remanded certain aspects of the methodology employed by FERC to establish rates of return on equity. On October 16, 2018, FERC issued an order in response to the Emera remand proceeding proposing a new method for determining whether an existing return on equity is unjust and unreasonable, and a new process for determining a just and reasonable return on equity. On November 14, 2018, FERC directed parties to the MISO complaints to file briefs on how the new process for determining return on equity proposed in the Emera proceeding should be applied to the complaints involving the MISO transmission owners' return on equity. Initial briefs were filed on February 13, 2019, and reply briefs will be due April 10, 2019. Duke Energy Indiana currently believes these matters will not have a material impact on its results of operations, cash flows and financial position.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Benton County Wind Farm Dispute

On December 16, 2013, BCWF filed a lawsuit against Duke Energy Indiana seeking damages for past generation losses alleging Duke Energy Indiana violated its obligations under a 2006 PPA by refusing to offer electricity to the market at negative prices. Damage claims continue to increase during times that BCWF is not dispatched. Under 2013 revised MISO market rules, Duke Energy Indiana is required to make a price offer to MISO for the power it proposes to sell into MISO markets and MISO determines whether BCWF is dispatched. Because market prices would have been negative due to increased market participation, Duke Energy Indiana determined it would not bid at negative prices in order to balance customer needs against BCWF's need to run. BCWF contends Duke Energy Indiana must bid at the lowest negative price to ensure dispatch, while Duke Energy Indiana contends it is not obligated to bid at any particular price, that it cannot ensure dispatch with any bid and that it has reasonably balanced the parties' interests. On July 6, 2015, the U.S. District Court for the Southern District of Indiana entered judgment against BCWF on all claims. BCWF appealed the decision and on December 9, 2016, the appeals court ruled in favor of BCWF. Duke Energy Indiana recorded an obligation and a regulatory asset related to the settlement amount in fourth quarter 2016. On June 30, 2017, the parties finalized a settlement agreement. Terms of the settlement included Duke Energy Indiana paying \$29 million for back damages. Additionally, the parties agreed on the method by which the contract will be bid into the market in the future. The settlement amount was paid in June 2017. The IURC issued an order on September 27, 2017, approving recovery of the settlement amount through Duke Energy Indiana's fuel clause. The IURC order has been appealed to the Indiana Court of Appeals. On May 21, 2018, the Indiana Court of Appeals upheld the commission's decision. The appellants have requested rehearing at the Indiana Court of Appeals. The Indiana Court of Appeals denied the request for rehearing. The appellants have requested transfer to the Indiana Supreme Court, including briefs in support from environmental groups. The Indiana Supreme Court denied transfer concluding this matter in favor of Duke Energy Indiana.

Edwardsport Integrated Gasification Combined Cycle Plant

On September 20, 2018, Duke Energy Indiana, the Indiana Office of Utility Consumer Counselor, the Duke Industrial Group and Nucor Steel – Indiana entered into a settlement agreement to resolve IGCC ratemaking issues for calendar years 2018 and 2019. The agreement will remain in effect until new rates are established in Duke Energy Indiana's next base rate case, which is

expected to be filed in mid-2019 with rates effective in mid-2020. It addresses the pending Edwardsport filing at the commission and eliminates the need for future filings until the overall rate case. This settlement includes caps on Duke Energy Indiana's retail operating expenses for 2018 and 2019, reduces Duke Energy Indiana's regulatory asset by \$30 million (with a corresponding reduction of the amount of amortization of the regulatory asset included in rates by \$10 million annually beginning with the implementation of final IGCC 17 rates), and provides funding for low-income assistance and clean energy projects. Duke Energy Indiana recognized pretax impairment and related charges of \$32 million in the third quarter of 2018. The settlement is subject to IURC approval. An evidentiary hearing was held December 2018 and an IURC Order is expected in March 2019. Duke Energy Indiana cannot predict the outcome of this matter.

Tax Act

On June 27, 2018, Duke Energy Indiana, the Indiana Office of Utility Consumer Counselor, the Indiana Industrial Group and Nucor Steel – Indiana filed testimony consistent with their Stipulation and Settlement Agreement (Settlement Agreement) in the federal tax act proceeding with the IURC. The Settlement Agreement outlines how Duke Energy Indiana will implement the impacts of the Tax Act. Material components of the Settlement Agreement were as follows:

- Riders to reflect the change in the statutory federal tax rate from 35 to 21 percent as they are filed in 2018;
- Base rates to reflect the change in the statutory federal tax rate from 35 to 21 percent upon IURC approval, but no later than September 1, 2018;
- Duke Energy Indiana to continue to defer protected federal EDIT until January 1, 2020, at which time it will be returned to customers according to the Average Rate Assumption Method required by the Internal Revenue Service over approximately 26 years; and
- Duke Energy Indiana to begin returning unprotected federal EDIT upon IURC approval, over 10 years. In order to mitigate the negative impacts to cash flow and credit metrics, the Settlement Agreement allows Duke Energy Indiana to return \$7 million per year over the first five years, with a step up to \$35 million per year in the following five years.

On August 22, 2018, the IURC approved the settlement and rates were adjusted effective September 1, 2018.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Piedmont

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Piedmont's Consolidated Balance Sheets.

(in millions)	December 31,		Earnings/Pays a Return	Recovery/Refund Period Ends
	2018	2017		
Regulatory Assets^(a)				
AROs – other	\$ 19	\$ 15		(d)
Accrued pension and OPEB ^(c)	99	91	X	(f)
Derivatives – gas supply contracts ^(e)	141	142		
Vacation accrual	12	10		
Deferred pipeline integrity costs ^(c)	51	42	X	(b)
Amount due from customers	24	64	X	(b)
Other	11	14		(b)
Total regulatory assets	357	378		
Less: current portion	54	95		
Total noncurrent regulatory assets	\$ 303	\$ 283		
Regulatory Liabilities^(a)				
Costs of removal	\$ 564	\$ 544		(d)
Net regulatory liability related to income taxes	579	597		(b)
Accrued pension and OPEB ^(c)	1	—	X	(f)
Amount due to customers	33	—	X	(b)
Other	41	3		(b)
Total regulatory liabilities	1,218	1,144		
Less: current portion	37	3		
Total noncurrent regulatory liabilities	\$ 1,181	\$ 1,141		

(a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.

(b) The expected recovery or refund period varies or has not been determined.

(c) Included in rate base.

(d) Recovery over the life of the associated assets.

(e) Balance will fluctuate with changes in the market. Current contracts extend into 2031.

(f) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.

South Carolina Rate Stabilization Adjustment Filing

On June 15, 2018, Piedmont filed with the PSCSC under the South Carolina Rate Stabilization Act its quarterly monitoring report for the 12-month period ending March 31, 2018. The filing included a revenue deficiency calculation and tariff rates in order to permit Piedmont the opportunity to earn the rate of return on common equity established in its last general rate case. The filing also incorporated the impacts of the Tax Act by lowering the income tax component of the revenue requirement, refunding protected EDIT under allowable normalization rules, unprotected EDIT and amounts over collected from the customers from January 1, 2018, through the end of the review period for this proceeding. A settlement agreement reached between Piedmont and ORS was filed with the PSCSC on September 14, 2018, and approved by the PSCSC on October 3, 2018. Terms of the settlement include implementation of rates for the 12-month period beginning November 2018 with a return on equity of 10.2 percent.

North Carolina Integrity Management Rider Filing

In October 2018, Piedmont filed a petition under the IMR mechanism to collect an additional \$10 million in annual revenues, effective December 2018, based on the eligible capital investments closed to integrity and safety projects

over the six-month period ended September 30, 2018. On November 27, 2018, the NCUC approved the requested rate adjustment.

In May 2018, Piedmont filed, and the NCUC approved, a petition under the IMR mechanism to update rates, effective June 2018, based on the eligible capital investments closed to integrity and safety projects over the six-month period ending March 31, 2018, and the decrease in the corporate federal income tax rate effective January 1, 2018. The combined effect of the update was a reduction to annual revenues of approximately \$6 million.

Tennessee Integrity Management Rider Filing

In November 2018, Piedmont filed a petition with the TPUC under the IMR mechanism to collect an additional \$3 million in annual revenues, effective January 2019, based on the eligible capital investments closed to integrity and safety projects over the 12-month period ending October 31, 2018. A hearing on this matter is scheduled for March 2019.

2018 North Carolina Rate Case

On February 27, 2019, Piedmont filed a notice with the NCUC of its intent to file a base rate adjustment application no earlier than 30 days from the notice submittal date.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

OTHER REGULATORY MATTERS

Progress Energy Merger FERC Mitigation

Since December 2014, the FERC Office of Enforcement has conducted an investigation of Duke Energy's market power filings in its application for approval of the Progress Energy merger submitted in 2012. On June 8, 2018, the FERC issued an order approving a settlement agreement under which Duke Energy paid a penalty of \$3.5 million. The FERC Office of Enforcement stated in its conclusion that Duke Energy violated FERC regulations by failing to fully and accurately describe certain specific matters in its market power filings. Duke Energy neither admitted nor denied the alleged violations.

Atlantic Coast Pipeline, LLC

On September 2, 2014, Duke Energy, Dominion Resources (Dominion), Piedmont and Southern Company Gas announced the formation of Atlantic Coast Pipeline, LLC (ACP) to build and own the proposed Atlantic Coast Pipeline (ACP pipeline), an approximately 600-mile interstate natural gas pipeline running from West Virginia to North Carolina. The ACP pipeline is designed to meet, in part, the needs identified by Duke Energy Carolinas, Duke Energy Progress and Piedmont. Dominion will be responsible for building and operating the ACP pipeline and holds a leading ownership percentage in ACP of 48 percent. Duke Energy owns a 47 percent interest, which is accounted for as an equity method investment through its Gas Utilities and Infrastructure segment. Southern Company Gas maintains a 5 percent interest. See Notes 12 and 17 for additional information related to Duke Energy's ownership interest. Duke Energy Carolinas, Duke Energy Progress and Piedmont, among others, will be customers of the pipeline. Purchases will be made under several 20-year supply contracts, subject to state regulatory approval.

In 2018, the FERC issued a series of Notices to Proceed, which authorized the project to begin certain construction-related activities along the pipeline route, including supply header and compressors. On May 11, 2018, and October 19, 2018, FERC issued Notices to Proceed allowing full construction activities in all areas of West Virginia except in the Monongahela National Forest. On July 24, 2018, FERC issued a Notice to Proceed allowing full construction activities along the project route in North Carolina. On October 19, 2018, the conditions to effectiveness of the Virginia 401 water quality certification were satisfied. Immediately following receipt of the Virginia 401 certification, ACP filed a request for FERC to issue a Notice to Proceed with full construction activities in Virginia. We appreciate the professional and collaborative process by the permitting agencies designed to ensure that this critical energy infrastructure project will meet the stringent environmental standards required by law and regulation.

ACP is the subject of challenges in state and federal courts and agencies, including, among others, challenges of the project's incidental take statement (ITS), crossings of the Blue Ridge Parkway, the Appalachian Trail, and the Monongahela and George Washington National Forests, the project's U.S. Army Corps of Engineers (USACE) 404 permit, the Virginia conditional 401 water quality certification, the FERC Environmental Impact Statement order and the FERC order approving the Certificate of Public Convenience and Necessity. Each of these challenges alleges non-compliance on the part of federal and state permitting authorities and adverse ecological consequences if the project is permitted to proceed. ACP is vigorously defending these challenges and coordinating with the federal and state authorities which are the direct parties to the challenges. Since July 2018, notable developments in these challenges include a stay issued by the U.S. Court of Appeals for the Fourth Circuit (Fourth Circuit) on construction activities through the Monongahela and George

Washington National Forests, a reissuance of the project's ITS and Blue Ridge Parkway right-of-way and renewed challenges of these reissued permits, a stay issued by the Fourth Circuit of the project's biological opinion and ITS (which stay has halted most project construction activity), a Fourth Circuit decision vacating the project's permits to cross the Monongahela and George Washington National Forests and the Appalachian Trail and the Fourth Circuit's remand to USACE of ACP's Huntington District 404 verification.

The delays resulting from the legal challenges described above have impacted the cost and schedule for the project. As a result, project cost estimates have increased to \$7.0 billion to \$7.8 billion, excluding financing costs. ACP expects to achieve a late 2020 in-service date for key segments of the project, while it expects the remainder to extend into 2021. Abnormal weather, work delays (including delays due to judicial or regulatory action) and other conditions may result in cost or schedule modifications in the future.

Sabal Trail Transmission, LLC

On May 4, 2015, Duke Energy acquired a 7.5 percent ownership interest in Sabal Trail, which is accounted for as an equity method investment, from Spectra Energy Partners, LP, a master limited partnership, formed by Enbridge Inc. (formerly Spectra Energy Corp.). Spectra Energy Partners, LP holds a 50 percent ownership interest in Sabal Trail and NextEra Energy has a 42.5 percent ownership interest. Sabal Trail is a joint venture to construct a 515-mile natural gas pipeline (Sabal Trail pipeline) to transport natural gas to Florida. Total estimated project costs are approximately \$3.2 billion. The Sabal Trail pipeline traverses Alabama, Georgia and Florida. The primary customers of the Sabal Trail pipeline, Duke Energy Florida and FP&L have each contracted to buy pipeline capacity for 25-year initial terms. See Notes 12 and 17 for additional information related to Duke Energy's ownership interest.

On February 3, 2016, the FERC issued an order granting the request for a CPCN to construct and operate the pipeline. The Sabal Trail pipeline received other required regulatory approvals and the Phase 1 mainline was placed in service in July 2017. On October 12, 2017, Sabal Trail filed a request with FERC to place in-service a lateral line to Duke Energy Florida's Citrus County CC. This request is required to support commissioning and testing activities at the facility. On March 16, 2018, FERC approved the Citrus lateral and it was placed in service.

On September 21, 2016, intervenors filed an appeal of FERC's CPCN orders to the U.S. Court of Appeals for the District of Columbia Circuit (D.C. Circuit Court of Appeals). On August 22, 2017, the appeals court ruled against FERC in the case for failing to include enough information on the impact of greenhouse-gas emissions carried by the pipeline, vacated the CPCN order and remanded the case to FERC. In response to the August 2017 court decision, the FERC issued a draft Supplemental Environmental Impact Statement (SEIS) on September 27, 2017. On October 6, 2017, FERC and a group of industry intervenors, including Sabal Trail and Duke Energy Florida, filed separate petitions with the D.C. Circuit Court of Appeals requesting rehearing regarding the court's decision to vacate the CPCN order. On January 31, 2018, the D.C. Circuit Court of Appeals denied the requests for rehearing. On February 2, 2018, Sabal Trail filed a request with FERC for expedited issuance of its order on remand and reissuance of the CPCN. In the alternative, the pipeline requested that FERC issue a temporary emergency CPCN to allow for continued operations. On February 5, 2018, FERC issued the final SEIS. On February 6, 2018, FERC and the intervenors in this case each filed motions for stay with the D.C. Circuit Court to stay the court's mandate. On March 7, 2018, the D.C. Circuit Court of Appeals granted FERC and Sabal Trail's stay request. On March 14, 2018, FERC issued its final order on remand, which recertified the project. On August 10, 2018, FERC denied requests for rehearing of the final order on remand.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Constitution Pipeline Company, LLC

Duke Energy owns a 24 percent ownership interest in Constitution, which is accounted for as an equity method investment. Constitution is a natural gas pipeline project slated to transport natural gas supplies from the Marcellus supply region in northern Pennsylvania to major northeastern markets. The pipeline will be constructed and operated by Williams Partners L.P., which has a 41 percent ownership share. The remaining interest is held by Cabot Oil and Gas Corporation and WGL Holdings, Inc. Before the permitting delays discussed below, Duke Energy's total anticipated contributions were approximately \$229 million. As a result of the permitting delays and project uncertainty, total anticipated contributions by Duke Energy can no longer be reasonably estimated. Since April 2016, with the actions of the New York State Department of Environmental Conservation (NYSDEC), Constitution stopped construction and discontinued capitalization of future development costs until the project's uncertainty is resolved.

In December 2014, Constitution received approval from the FERC to construct and operate the proposed pipeline. However, on April 22, 2016, the NYSDEC denied Constitution's application for a necessary water quality certification for the New York portion of the Constitution pipeline. Constitution filed legal actions in the U.S. Court of Appeals for the Second Circuit (U.S. Court of Appeals) challenging the legality and appropriateness of the NYSDEC's decision and on August 18, 2017, the petition was denied in part and dismissed in part. In September 2017, Constitution filed a petition for a rehearing of portions of the decision unrelated to the water quality certification, which was denied by the U.S. Court of Appeals. In January 2018, Constitution petitioned the Supreme Court of the United States to review the U.S. Court of Appeals decision, and on April 30, 2018, the Supreme Court denied Constitution's petition. In October 2017, Constitution filed a petition for declaratory order requesting FERC to find that the NYSDEC waived its rights to issue a Section

401 water quality certification by not acting on Constitution's application within a reasonable period of time as required by statute. This petition was based on precedent established by another pipeline's successful petition with FERC following a District of Columbia Circuit Court ruling. On January 11, 2018, FERC denied Constitution's petition. In February 2018, Constitution filed a rehearing request with FERC of its finding that the NYSDEC did not waive the Section 401 certification requirement. On July 19, 2018, FERC denied Constitution's rehearing request. Constitution is currently unable to approximate an in-service date for the project due to the NYSDEC's denial of the water quality certification. The Constitution partners remain committed to the project and are evaluating next steps to move the project forward. On June 25, 2018, Constitution filed with FERC a Request for Extension of Time until December 2, 2020, for construction of the project. On November 5, 2018, FERC issued an Order Granting Extension of Time.

See Notes 12 and 17 for additional information related to ownership interest and carrying value of the investment.

Potential Coal Plant Retirements

The Subsidiary Registrants periodically file IRPs with their state regulatory commissions. The IRPs provide a view of forecasted energy needs over a long term (10 to 20 years) and options being considered to meet those needs. IRPs filed by the Subsidiary Registrants included planning assumptions to potentially retire certain coal-fired generating facilities in North Carolina and Indiana earlier than their current estimated useful lives primarily because facilities do not have the requisite emission control equipment to meet regulatory requirements expected to apply in the near future. Duke Energy continues to evaluate the potential need to retire these coal-fired generating facilities earlier than the current estimated useful lives and plans to seek regulatory recovery for amounts that would not be otherwise recovered when any of these assets are retired.

The table below contains the net carrying value of generating facilities planned for retirement or included in recent IRPs as evaluated for potential retirement due to a lack of requisite environmental control equipment. Dollar amounts in the table below are included in Net property, plant and equipment on the Consolidated Balance Sheets as of December 31, 2018, and exclude capitalized asset retirement costs.

	Capacity (in MW)	Remaining Net Book Value (in millions)
Duke Energy Carolinas		
Allen Steam Station Units 1-3 ^(a)	585	\$ 162
Duke Energy Indiana		
Gallagher Units 2 and 4 ^(b)	280	121
Total Duke Energy	865	\$ 283

(a) Duke Energy Carolinas will retire Allen Steam Station Units 1 through 3 by December 31, 2024, as part of the resolution of a lawsuit involving alleged New Source Review violations.

(b) Duke Energy Indiana committed to either retire or stop burning coal at Gallagher Units 2 and 4 by December 31, 2022, as part of the 2016 settlement of Edwardsport IGCC matters.

Refer to the "Western Carolinas Modernization Plan" discussion above for details of Duke Energy Progress' planned retirements.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

5. COMMITMENTS AND CONTINGENCIES

INSURANCE

General Insurance

The Duke Energy Registrants have insurance and reinsurance coverage either directly or through indemnification from Duke Energy's captive insurance company, Bison, and its affiliates, consistent with companies engaged in similar commercial operations with similar type properties. The Duke Energy Registrants' coverage includes (i) commercial general liability coverage for liabilities arising to third parties for bodily injury and property damage; (ii) workers' compensation; (iii) automobile liability coverage; and (iv) property coverage for all real and personal property damage. Real and personal property damage coverage excludes electric transmission and distribution lines, but includes damages arising from boiler and machinery breakdowns, earthquakes, flood damage and extra expense, but not outage or replacement power coverage. All coverage is subject to certain deductibles or retentions, sublimits, exclusions, terms and conditions common for companies with similar types of operations. The Duke Energy Registrants self-insure their electric transmission and distribution lines against loss due to storm damage and other natural disasters. As discussed further in Note 4, Duke Energy Florida maintains a storm damage reserve and has a regulatory mechanism to recover the cost of named storms on an expedited basis.

The cost of the Duke Energy Registrants' coverage can fluctuate from year to year reflecting claims history and conditions of the insurance and reinsurance markets.

In the event of a loss, terms and amounts of insurance and reinsurance available might not be adequate to cover claims and other expenses incurred. Uninsured losses and other expenses, to the extent not recovered by other sources, could have a material effect on the Duke Energy Registrants' results of operations, cash flows or financial position. Each company is responsible to the extent losses may be excluded or exceed limits of the coverage available.

Nuclear Insurance

Duke Energy Carolinas owns and operates McGuire and Oconee and operates and has a partial ownership interest in Catawba. McGuire and Catawba each have two reactors. Oconee has three reactors. The other joint owners of Catawba reimburse Duke Energy Carolinas for certain expenses associated with nuclear insurance per the Catawba joint owner agreements.

Duke Energy Progress owns and operates Robinson, Brunswick and Harris. Robinson and Harris each have one reactor. Brunswick has two reactors.

Duke Energy Florida owns Crystal River Unit 3, which permanently ceased operation in 2013 and reached a SAFSTOR condition in January 2018 after the successful transfer of all used nuclear fuel assemblies to an on-site dry cask storage facility.

In the event of a loss, terms and amounts of insurance available might not be adequate to cover property damage and other expenses incurred. Uninsured losses and other expenses, to the extent not recovered by other sources, could have a material effect on Duke Energy Carolinas', Duke Energy Progress' and Duke Energy Florida's results of operations, cash flows or financial position. Each company is responsible to the extent losses may be excluded or exceed limits of the coverage available.

Nuclear Liability Coverage

The Price-Anderson Act requires owners of nuclear reactors to provide for public nuclear liability protection per nuclear incident up to a maximum total financial protection liability. The maximum total financial protection liability, which is approximately \$14.1 billion, is subject to change every five years for inflation and for the number of licensed reactors. Total nuclear liability coverage consists of a combination of private primary nuclear liability insurance coverage and a mandatory industry risk-sharing program to provide for excess nuclear liability coverage above the maximum reasonably available private primary coverage. The U.S. Congress could impose revenue-raising measures on the nuclear industry to pay claims.

Primary Liability Insurance

Duke Energy Carolinas and Duke Energy Progress have purchased the maximum reasonably available private primary nuclear liability insurance as required by law, which is \$450 million per station. Duke Energy Florida has purchased \$100 million primary nuclear liability insurance in compliance with the law.

Excess Liability Program

This program provides \$13.6 billion of coverage per incident through the Price-Anderson Act's mandatory industrywide excess secondary financial protection program of risk pooling. This amount is the product of potential cumulative retrospective premium assessments of \$138 million times the current 99 licensed commercial nuclear reactors in the U.S. Under this program, licensees could be assessed retrospective premiums to compensate for public nuclear liability damages in the event of a nuclear incident at any licensed facility in the U.S. Retrospective premiums may be assessed at a rate not to exceed \$20.5 million per year per licensed reactor for each incident. The assessment may be subject to state premium taxes.

Nuclear Property and Accidental Outage Coverage

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are members of NEIL, an industry mutual insurance company, which provides property damage, nuclear accident decontamination and premature decommissioning insurance for each station for losses resulting from damage to its nuclear plants, either due to accidents or acts of terrorism. Additionally, NEIL provides accidental outage coverage for each station for losses in the event of a major accidental outage at an insured nuclear station.

Pursuant to regulations of the NRC, each company's property damage insurance policies provide that all proceeds from such insurance be applied, first, to place the plant in a safe and stable condition after a qualifying accident and second, to decontaminate the plant before any proceeds can be used for decommissioning, plant repair or restoration.

Losses resulting from acts of terrorism are covered as common occurrences, such that if terrorist acts occur against one or more commercial nuclear power plants insured by NEIL within a 12-month period, they would be treated as one event and the owners of the plants where the act occurred would share one full limit of liability. The full limit of liability is currently \$3.2 billion. NEIL submits the total aggregate for all of their policies for non-nuclear terrorist events to approximately \$1.8 billion.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Each nuclear facility has accident property damage, nuclear accident decontamination and premature decommissioning liability insurance from NEIL with limits of \$1.5 billion, except for Crystal River Unit 3. Crystal River Unit 3's limit is \$50 million and is on an actual cash value basis. All nuclear facilities except for Catawba and Crystal River Unit 3 also share an additional \$1.25 billion nuclear accident insurance limit above their dedicated underlying limit. This shared additional excess limit is not subject to reinstatement in the event of a loss. Catawba has a dedicated \$1.25 billion of additional nuclear accident insurance limit above its dedicated underlying limit. Catawba and Oconee also have an additional \$750 million of non-nuclear accident property damage limit. All coverages are subject to sublimits and significant deductibles.

NEIL's Accidental Outage policy provides some coverage, such as business interruption, for losses in the event of a major accident property damage outage of a nuclear unit. Coverage is provided on a weekly limit basis after a significant waiting period deductible and at 100 percent of the available weekly limits for 52 weeks and 80 percent of the available weekly limits for the next 110 weeks. Coverage is provided until these available weekly periods are met where the accidental outage policy limit will not exceed \$490 million for McGuire, Catawba and Harris, \$476 million for Brunswick, \$462 million for Oconee and \$392 million for Robinson. NEIL sublimits the accidental outage recovery to the first 104 weeks of coverage not to exceed \$328 million from non-nuclear accidental property damage. Coverage amounts decrease in the event more than one unit at a station is out of service due to a common accident. All coverages are subject to sublimits and significant deductibles.

Potential Retroactive Premium Assessments

In the event of NEIL losses, NEIL's board of directors may assess member companies' retroactive premiums of amounts up to 10 times their annual premiums for up to six years after a loss. NEIL has never exercised this assessment. The maximum aggregate annual retrospective premium obligations for Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are \$159 million, \$97 million and \$1 million, respectively. Duke Energy Carolinas' maximum assessment amount includes 100 percent of

potential obligations to NEIL for jointly owned reactors. Duke Energy Carolinas would seek reimbursement from the joint owners for their portion of these assessment amounts.

ENVIRONMENTAL

The Duke Energy Registrants are subject to federal, state and local regulations regarding air and water quality, hazardous and solid waste disposal and other environmental matters. These regulations can be changed from time to time, imposing new obligations on the Duke Energy Registrants. The following environmental matters impact all of the Duke Energy Registrants.

Remediation Activities

In addition to the ARO recorded as a result of various environmental regulations, discussed in Note 9, the Duke Energy Registrants are responsible for environmental remediation at various sites. These include certain properties that are part of ongoing operations and sites formerly owned or used by Duke Energy entities. These sites are in various stages of investigation, remediation and monitoring. Managed in conjunction with relevant federal, state and local agencies, remediation activities vary based upon site conditions and location, remediation requirements, complexity and sharing of responsibility. If remediation activities involve joint and several liability provisions, strict liability, or cost recovery or contribution actions, the Duke Energy Registrants could potentially be held responsible for environmental impacts caused by other potentially responsible parties and may also benefit from insurance policies or contractual indemnities that cover some or all cleanup costs. Liabilities are recorded when losses become probable and are reasonably estimable. The total costs that may be incurred cannot be estimated because the extent of environmental impact, allocation among potentially responsible parties, remediation alternatives and/or regulatory decisions have not yet been determined at all sites. Additional costs associated with remediation activities are likely to be incurred in the future and could be significant. Costs are typically expensed as Operation, maintenance and other in the Consolidated Statements of Operations unless regulatory recovery of the costs is deemed probable.

The following tables contain information regarding reserves for probable and estimable costs related to the various environmental sites. These reserves are recorded in Accounts payable within Current Liabilities and Other within Other Noncurrent Liabilities on the Consolidated Balance Sheets.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Balance at December 31, 2015	\$ 94	\$ 10	\$ 17	\$ 3	\$ 14	\$ 54	\$ 12
Provisions/adjustments	19	4	7	2	4	7	1
Cash reductions	(15)	(4)	(6)	(2)	(4)	(2)	(3)
Balance at December 31, 2016	98	10	18	3	14	59	10
Provisions/adjustments	8	3	3	2	2	3	(4)
Cash reductions	(25)	(3)	(6)	(2)	(4)	(15)	(1)
Balance at December 31, 2017	81	10	15	3	12	47	5
Provisions/adjustments	26	3	2	3	(2)	21	1
Cash reductions	(30)	(2)	(6)	(2)	(4)	(20)	(1)
Balance at December 31, 2018	\$ 77	\$ 11	\$ 11	\$ 4	\$ 6	\$ 48	\$ 5

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

As of December 31, 2016, and October 31, 2016 and 2015, Piedmont's environmental reserve was \$1 million. As of December 31, 2018, and 2017, the reserve was \$2 million.

Additional losses in excess of recorded reserves that could be incurred for the stages of investigation, remediation and monitoring for environmental sites that have been evaluated at this time are not material except as presented in the table below.

(in millions)	
Duke Energy	\$ 46
Duke Energy Carolinas	17
Duke Energy Ohio	19
Piedmont	2

North Carolina and South Carolina Ash Basins

In February 2014, a break in a stormwater pipe beneath an ash basin at Duke Energy Carolinas' retired Dan River Steam Station caused a release of ash basin water and ash into the Dan River. In July 2014, Duke Energy completed remediation work identified by the EPA and continues to cooperate with the EPA's civil enforcement process. The NCDEQ has historically assessed Duke Energy Carolinas and Duke Energy Progress with NOV's for violations that were most often resolved through satisfactory corrective actions and minor, if any, fines or penalties. Subsequent to the Dan River ash release, Duke Energy Carolinas and Duke Energy Progress have been served with a higher level of NOV's, including assessed penalties for violations at Sutton and Dan River Steam Station. Duke Energy Carolinas and Duke Energy Progress continue to resolve violations through corrective actions, and associated penalties related to existing unresolved NOV's are not expected to be material.

LITIGATION

Duke Energy Carolinas and Duke Energy Progress

Coal Ash Insurance Coverage Litigation

In March 2017, Duke Energy Carolinas and Duke Energy Progress filed a civil action in the North Carolina Superior Court against various insurance providers. The lawsuit seeks payment for coal ash-related liabilities covered by third-party liability insurance policies. The insurance policies were issued between 1971 and 1986 and provide third-party liability insurance for property damage. The civil action seeks damages for breach of contract and indemnification for costs arising from the Coal Ash Act and the EPA CCR rule at 15 coal-fired plants in North Carolina and South Carolina. On January 23, 2019, the court granted the parties' joint motion for a four month stay of the proceedings, until June 3, 2019, to allow the parties to discuss potential resolution. If the case is not fully resolved at that time, litigation will resume. The trial remains scheduled for August 2020. Duke Energy Carolinas and Duke Energy Progress cannot predict the outcome of this matter.

NCDEQ State Enforcement Actions

In the first quarter of 2013, SELC sent notices of intent to sue Duke Energy Carolinas and Duke Energy Progress related to alleged CWA violations from coal ash basins at two coal-fired power plants in North Carolina. The NCDEQ filed enforcement actions against Duke Energy Carolinas and Duke Energy Progress alleging violations of water discharge permits and North Carolina groundwater standards. The cases have been consolidated and are being heard before a single judge in the North Carolina Superior Court.

On August 16, 2013, the NCDEQ filed an enforcement action against Duke Energy Carolinas and Duke Energy Progress related to the remaining coal-fired power plants in North Carolina, alleging violations of the CWA and violations of the North Carolina groundwater standards. Both of these cases have been assigned to the judge handling the enforcement actions discussed above. SELC is representing several environmental groups who have been permitted to intervene in these cases.

The court issued orders in 2016 granting Motions for Partial Summary Judgment for seven of the 14 North Carolina plants with coal ash basins named in the enforcement actions. On February 13, 2017, the court issued an order denying motions for partial summary judgment brought by both the environmental groups and Duke Energy Carolinas and Duke Energy Progress for the remaining seven plants. On March 15, 2017, Duke Energy Carolinas and Duke Energy Progress filed a Notice of Appeal with the North Carolina Court of Appeals to challenge the trial court's order. The parties were unable to reach an agreement at mediation in April 2017 and submitted briefs to the trial court on remaining issues to be tried. On August 1, 2018, the Court of Appeals dismissed the appeal and the matter is proceeding before the trial court. No trial date has been scheduled. Duke Energy Carolinas and Duke Energy Progress cannot predict the outcome of this matter.

Federal Citizens Suits

On June 13, 2016, RRBA filed a federal citizen suit in the Middle District of North Carolina alleging unpermitted discharges to surface water and groundwater violations at the Mayo Plant. On August 19, 2016, Duke Energy Progress filed a Motion to Dismiss. On April 26, 2017, the court entered an order dismissing four of the claims in the federal citizen suit. Two claims relating to alleged violations of NPDES permit provisions survived the motion to dismiss, and Duke Energy Progress filed its response on May 10, 2017. Duke Energy Progress and RRBA each filed motions for summary judgment on March 23, 2018. The court has not yet ruled on these motions.

On May 16, 2017, RRBA filed a federal citizen suit in the U.S. District Court for the Middle District of North Carolina, which asserts two claims relating to alleged violations of NPDES permit provisions at the Roxboro Plant and one claim relating to the use of nearby water bodies. Duke Energy Progress and RRBA each filed motions for summary judgment on April 17, 2018, and the court has not yet ruled on these motions.

On May 8, 2018, on motion from Duke Energy Progress, the court ordered trial in both of the above matters to be consolidated. Trial is currently scheduled to begin July 15, 2019.

On June 20, 2017, RRBA filed a federal citizen suit in the U.S. District Court for the Middle District of North Carolina challenging the closure plans at the Mayo Plant under the EPA CCR Rule. Duke Energy Progress filed a motion to dismiss, which was granted by the court on March 30, 2018. RRBA had until April 30, 2018, to file an appeal to the Fourth Circuit but did not do so.

On August 2, 2017, RRBA filed a federal citizen suit in the U.S. District Court for the Middle District of North Carolina challenging the closure plans at the Roxboro Plant under the EPA CCR Rule. Duke Energy Progress filed a motion to dismiss on October 2, 2017, which was granted by the court on May 29, 2018. RRBA had until June 28, 2018, to file an appeal to the Fourth Circuit but did not do so.

On December 5, 2017, various parties filed a federal citizen suit in the U.S. District Court for the Middle District of North Carolina for alleged violations at Duke Energy Carolinas' Belews Creek under the CWA. Duke Energy Carolinas' answer to the complaint was filed on August 27, 2018. On October 10, 2018, Duke Energy Carolinas filed Motions to Dismiss for lack of standing, Motion for Judgment on the Pleadings and Motion to Stay Discovery. On January 9, 2019, the court entered an order denying Duke Energy Carolinas' motion to stay discovery. There has been no ruling on the other pending motions.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Carolinas and Duke Energy Progress cannot predict the outcome of these matters.

Groundwater Contamination Claims

Beginning in May 2015, a number of residents living in the vicinity of the North Carolina facilities with ash basins received letters from the NCDEQ advising them not to drink water from the private wells on their land tested by the NCDEQ as the samples were found to have certain substances at levels higher than the criteria set by the DHHS. Results of CSAs testing performed by Duke Energy under the Coal Ash Act have been consistent with historical data provided to state regulators over many years. The DHHS and NCDEQ sent follow-up letters on October 15, 2015, to residents near coal ash basins who have had their wells tested, stating that private well samplings at a considerable distance from coal ash basins, as well as some municipal water supplies, contain similar levels of vanadium and hexavalent chromium, which led investigators to believe these constituents are naturally occurring. In March 2016, DHHS rescinded the advisories.

Duke Energy Carolinas and Duke Energy Progress have received formal demand letters from residents near Duke Energy Carolinas' and Duke Energy Progress' coal ash basins. The residents claim damages for nuisance and diminution in property value, among other things. The parties held three days of mediation discussions, which ended at impasse. On January 6, 2017, Duke Energy Carolinas and Duke Energy Progress received the plaintiffs' notice of their intent to file suits should the matter not settle. The NCDEQ preliminarily approved Duke Energy's permanent water solution plans on January 13, 2017, and as a result shortly thereafter, Duke Energy issued a press release, providing additional details regarding the homeowner compensation package. This package consists of three components: (i) a \$5,000 goodwill payment to each eligible well owner to support the transition to a new water supply, (ii) where a public water supply is available and selected by the eligible well owner, a stipend to cover 25 years of water bills and (iii) the Property Value Protection Plan. The Property Value Protection Plan is a program offered by Duke Energy designed to guarantee eligible plant neighbors the fair market value of their residential property should they decide to sell their property during the time that the plan is offered. Payments are being made and the remaining reserves are not material.

On August 23, 2017, a class-action suit was filed in Wake County Superior Court, North Carolina, against Duke Energy Carolinas and Duke Energy Progress on behalf of certain property owners living near coal ash impoundments at Allen, Asheville, Belews Creek, Buck, Cliffside, Lee, Marshall, Mayo and Roxboro. The class is defined as those who are well-eligible under the Coal Ash Act or those to whom Duke Energy has promised a permanent replacement water supply and seeks declaratory and injunctive relief, along with compensatory damages. Plaintiffs allege that Duke Energy's improper maintenance of coal ash impoundments caused harm, particularly through groundwater contamination. Despite NCDEQ's preliminary approval, Plaintiffs contend that Duke Energy's proposed permanent water solutions plan fails to comply with the Coal Ash Act. On September 28, 2017, Duke Energy Carolinas and Duke Energy Progress filed a Motion to Dismiss and Motion to Strike the class designation. The parties entered into a Settlement Agreement on January 24, 2018, which resulted in the dismissal of the underlying class action on January 25, 2018.

On September 14, 2017, a complaint was filed against Duke Energy Progress in New Hanover County Superior Court by a group of homeowners residing approximately 1 mile from Duke Energy Progress' Sutton Steam Plant. The homeowners allege that coal ash constituents have been migrating from ash impoundments at Sutton into their groundwater for decades and that in 2015,

Duke Energy Progress discovered these releases of coal ash, but failed to notify any officials or neighbors and failed to take remedial action. The homeowners claim unspecified physical and mental injuries as a result of consuming their well water and seek actual damages for personal injury, medical monitoring and punitive damages. On March 6, 2018, Plaintiffs' counsel voluntarily dismissed the action without prejudice.

Duke Energy Carolinas

Asbestos-related Injuries and Damages Claims

Duke Energy Carolinas has experienced numerous claims for indemnification and medical cost reimbursement related to asbestos exposure. These claims relate to damages for bodily injuries alleged to have arisen from exposure to or use of asbestos in connection with construction and maintenance activities conducted on its electric generation plants prior to 1985. As of December 31, 2018, there were 164 asserted claims for non-malignant cases with the cumulative relief sought of up to \$42 million and 87 asserted claims for malignant cases with the cumulative relief sought of up to \$21 million. Based on Duke Energy Carolinas' experience, it is expected that the ultimate resolution of most of these claims likely will be less than the amount claimed.

Duke Energy Carolinas has recognized asbestos-related reserves of \$630 million and \$489 million at December 31, 2018, and 2017, respectively. These reserves are classified in Other within Other Noncurrent Liabilities and Other within Current Liabilities on the Consolidated Balance Sheets. These reserves are based upon Duke Energy Carolinas' best estimate for current and future asbestos claims through 2038 and are recorded on an undiscounted basis. In light of the uncertainties inherent in a longer-term forecast, management does not believe they can reasonably estimate the indemnity and medical costs that might be incurred after 2038 related to such potential claims. It is possible Duke Energy Carolinas may incur asbestos liabilities in excess of the recorded reserves.

Duke Energy Carolinas has third-party insurance to cover certain losses related to asbestos-related injuries and damages above an aggregate self-insured retention. Duke Energy Carolinas' cumulative payments began to exceed the self-insurance retention in 2008. Future payments up to the policy limit will be reimbursed by the third-party insurance carrier. The insurance policy limit for potential future insurance recoveries indemnification and medical cost claim payments is \$764 million in excess of the self-insured retention. Receivables for insurance recoveries were \$739 million and \$585 million at December 31, 2018, and 2017, respectively. These amounts are classified in Other within Other Noncurrent Assets and Receivables within Current Assets on the Consolidated Balance Sheets. Duke Energy Carolinas is not aware of any uncertainties regarding the legal sufficiency of insurance claims. Duke Energy Carolinas believes the insurance recovery asset is probable of recovery as the insurance carrier continues to have a strong financial strength rating.

Duke Energy Progress and Duke Energy Florida

Spent Nuclear Fuel Matters

On October 16, 2014, Duke Energy Progress and Duke Energy Florida sued the U.S. in the U.S. Court of Federal Claims. The lawsuit claimed the Department of Energy breached a contract in failing to accept spent nuclear fuel under the Nuclear Waste Policy Act of 1982 and asserted damages for the cost of on-site storage. Duke Energy Progress and Duke Energy Florida asserted damages for the period January 1, 2011, through December 31, 2013, of \$48 million and \$25 million, respectively. On November 17, 2017, the Court awarded

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Progress and Duke Energy Florida \$48 million and \$21 million, respectively, subject to appeal. No appeals were filed and Duke Energy Progress and Duke Energy Florida recognized the recoveries in the first quarter of 2018. Claims for all periods through 2013 have been resolved. On June 22, 2018, Duke Energy Progress and Duke Energy Florida filed a complaint for damages incurred for 2014 through first quarter 2018.

Duke Energy Progress

Gypsum Supply Agreements Matter

On June 30, 2017, CertainTeed filed a declaratory judgment action against Duke Energy Progress in the North Carolina Business Court relating to a gypsum supply agreement. In its complaint, CertainTeed sought an order from the court declaring that the minimum amount of gypsum Duke Energy Progress must provide to CertainTeed under the supply agreement was 50,000 tons per month through 2029. Trial in this matter was completed on July 16, 2018. On August 29, 2018, the court issued an order and opinion finding that Duke Energy Progress is required to supply 50,000 tons of gypsum/month, but that CertainTeed's sole remedy for Duke Energy Progress' long-term discontinuance under the agreement is liquidated damages. On November 14, 2018, the parties reached a settlement agreement. The amount owed under the liquidated damages provision is approximately \$90 million on an undiscounted basis over 10 years. Approximately \$3 million was paid in 2018. As of December 31, 2018, \$9 million is recorded in Accounts payable within Current Liabilities and \$63 million in Other within Other Noncurrent Liabilities on the Consolidated Balance Sheets. The liability is recorded on a discounted basis at a rate of approximately 4 percent. These costs are probable of recovery from customers and are recorded in Regulatory Assets within Other Noncurrent Assets on the Consolidated Balance Sheets.

Duke Energy Florida

Fluor Contract Litigation

On January 29, 2019, Fluor filed a breach of contract lawsuit in the U.S. District Court for the Middle District of Florida against Duke Energy Florida related to an EPC agreement for the combined-cycle natural gas plant in Citrus County, Florida. Fluor filed an amended complaint on February, 13, 2019. Fluor's multicount complaint seeks civil, statutory and contractual remedies related to Duke Energy Florida's \$67 million draw in early 2019, on Fluor's letter of credit and offset of invoiced amounts. Duke Energy Florida is attempting to recover from Fluor \$110 million in additional costs incurred by Duke Energy Florida. Duke Energy Florida cannot predict the outcome of this matter. See Note 4 for additional information.

Class-Action Lawsuit

On February 22, 2016, a lawsuit was filed in the U.S. District Court for the Southern District of Florida on behalf of a class of Duke Energy Florida and FP&L's customers in Florida. The suit alleges the State of Florida's NCRS are unconstitutional and pre-empted by federal law. Plaintiffs claim they are entitled to repayment of all money paid by customers of Duke Energy Florida and FP&L as a result of the NCRS, as well as an injunction against any future charges under those statutes. The constitutionality of the NCRS has been challenged unsuccessfully in a number of prior cases on alternative grounds. Duke Energy

Florida and FP&L filed motions to dismiss the complaint on May 5, 2016. On September 21, 2016, the Court granted the motions to dismiss with prejudice. Plaintiffs filed a motion for reconsideration, which was denied. On January 4, 2017, plaintiffs filed a notice of appeal to the Eleventh Circuit U.S. Court of Appeals (Eleventh Circuit). On July 11, 2018, the Eleventh Circuit affirmed the U.S. District Court's dismissal of the lawsuit. The deadline to file a petition for cert was October 9, 2018, and no petition was filed; therefore, the dismissal of the lawsuit is final.

Westinghouse Contract Litigation

On March 28, 2014, Duke Energy Florida filed a lawsuit against Westinghouse in the U.S. District Court for the Western District of North Carolina. The lawsuit seeks recovery of \$54 million in milestone payments in excess of work performed under an EPC for Levy as well as a determination by the court of the amounts due to Westinghouse as a result of the termination of an EPC contract. Duke Energy Florida recognized an exit obligation as a result of the termination of the EPC. On March 31, 2014, Westinghouse filed a separate lawsuit against Duke Energy Florida in U.S. District Court for the Western District of Pennsylvania alleging damages under the same EPC contract in excess of \$510 million for engineering and design work, costs to end supplier contracts and an alleged termination fee. On June 9, 2014, the judge in the North Carolina case ruled that the litigation will proceed in the Western District of North Carolina.

On July 11, 2016, Duke Energy Florida and Westinghouse filed separate Motions for Summary Judgment. On September 29, 2016, the court issued its ruling, granting Westinghouse a \$30 million termination fee claim and dismissing Duke Energy Florida's \$54 million refund claim. Westinghouse's claim for termination costs continued to trial. Following a trial on the matter, the court issued an order in December 2016 denying Westinghouse's claim for termination costs and reaffirming its earlier ruling in favor of Westinghouse on the \$30 million termination fee. Judgment was entered against Duke Energy Florida in the amount of approximately \$34 million, which includes prejudgment interest. Westinghouse appealed the trial court's order to the Fourth Circuit and Duke Energy Florida cross-appealed.

On March 29, 2017, Westinghouse filed Chapter 11 bankruptcy in the Southern District of New York, which automatically stayed the appeal. On May 23, 2017, the bankruptcy court entered an order lifting the stay with respect to the appeal. Westinghouse and Duke Energy Florida executed a settlement agreement resolving this matter on April 5, 2018. The bankruptcy court approved the settlement and Duke Energy Florida paid approximately \$34 million to Westinghouse in July 2018 pursuant to this agreement. At the request of the parties, the Fourth Circuit has dismissed the appeal.

MGP Cost Recovery Action

On December 30, 2011, Duke Energy Florida filed a lawsuit against FirstEnergy to recover investigation and remediation costs incurred by Duke Energy Florida in connection with the restoration of two former MGP sites in Florida. Duke Energy Florida alleged that FirstEnergy, as the successor to Associated Gas & Electric Co., owes past and future contribution and response costs of up to \$43 million for the investigation and remediation of MGP sites. On December 6, 2016, the trial court entered judgment against Duke Energy Florida in the case. In January 2017, Duke Energy Florida appealed the decision to the U.S. Court of Appeals for the Sixth Circuit, which affirmed the trial court's ruling on April 10, 2018. The dismissal of the lawsuit is therefore final.

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

Other Litigation and Legal Proceedings

The Duke Energy Registrants are involved in other legal, tax and regulatory proceedings arising in the ordinary course of business, some of which involve significant amounts. The Duke Energy Registrants believe the final disposition of these proceedings will not have a material effect on their results of operations, cash flows or financial position.

The table below presents recorded reserves based on management's best estimate of probable loss for legal matters, excluding asbestos-related reserves, the CertainTeed liquidated damages obligation and the exit obligation in 2017 related to the termination of an EPC contract. Reserves are classified on the Consolidated Balance Sheets in Other within Other Noncurrent Liabilities and Other within Current Liabilities. The reasonably possible range of loss in excess of recorded reserves is not material, other than as described above.

(in millions)	December 31,	
	2018	2017
Reserves for Legal Matters		
Duke Energy	\$ 65	\$ 88
Duke Energy Carolinas	9	30
Progress Energy	54	55
Duke Energy Progress	12	13
Duke Energy Florida	24	24
Piedmont	1	2

OTHER COMMITMENTS AND CONTINGENCIES

General

As part of their normal business, the Duke Energy Registrants are party to various financial guarantees, performance guarantees and other contractual commitments to extend guarantees of credit and other assistance to various subsidiaries, investees and other third parties. These guarantees involve elements of performance and credit risk, which are not fully recognized on the Consolidated Balance Sheets and have unlimited maximum potential payments. However, the Duke Energy Registrants do not believe these guarantees will have a material effect on their results of operations, cash flows or financial position.

Purchase Obligations

Purchased Power

Duke Energy Progress, Duke Energy Florida and Duke Energy Ohio have ongoing purchased power contracts, including renewable energy contracts, with other utilities, wholesale marketers, co-generators and qualified facilities. These purchased power contracts generally provide for capacity and energy payments. In addition, Duke Energy Progress and Duke Energy Florida have various contracts to secure transmission rights.

The following table presents executory purchased power contracts with terms exceeding one year, excluding contracts classified as leases.

(in millions)	Contract Expiration	Minimum Purchase Amount at December 31, 2018						Total
		2019	2020	2021	2022	2023	Thereafter	
Duke Energy Progress ^(a)	2022-2031	\$ 51	\$ 52	\$ 53	\$ 30	\$ 25	\$ 215	\$ 426
Duke Energy Florida ^(b)	2021-2025	363	380	365	363	382	361	2,214
Duke Energy Ohio ^{(c)(d)}	2020-2022	146	117	53	11	—	—	327

(a) Contracts represent 100 percent of net plant output.

(b) Contracts represent between 81 percent and 100 percent of net plant output.

(c) Contracts represent between 1 percent and 8 percent of net plant output.

(d) Excludes PPA with OVEC. See Note 17 for additional information.

Gas Supply and Capacity Contracts

Duke Energy Ohio and Piedmont routinely enter into long-term natural gas supply commodity and capacity commitments and other agreements that commit future cash flows to acquire services needed in their businesses. These commitments include pipeline and storage capacity contracts and natural gas supply contracts to provide service to customers. Costs arising from the natural gas supply commodity and capacity commitments, while significant, are pass-through costs to customers and are generally fully recoverable through the fuel adjustment or PGA procedures and prudence reviews in North Carolina and South Carolina and under the Tennessee Incentive Plan in Tennessee. In the Midwest, these costs are recovered via the Gas Cost Recovery Rate in Ohio or the Gas Cost Adjustment Clause in Kentucky. The time periods for fixed payments under pipeline and storage capacity contracts are up to 16 years. The time periods for fixed payments under natural gas supply contracts are up to seven years. The time period for the natural gas supply purchase commitments is up to 12 years.

Certain storage and pipeline capacity contracts require the payment of demand charges that are based on rates approved by the FERC in order to maintain rights to access the natural gas storage or pipeline capacity on a firm basis during the contract term. The demand charges that are incurred in each period are recognized in the Consolidated Statements of Operations and Comprehensive Income as part of natural gas purchases and are included in Cost of natural gas.

The following table presents future unconditional purchase obligations under natural gas supply and capacity contracts as of December 31, 2018.

(in millions)	Duke Energy	Duke Energy Ohio	Piedmont
2019	\$ 314	\$ 38	\$ 276
2020	287	30	257
2021	255	29	226
2022	225	11	214
2023	148	4	144
Thereafter	1,067	—	1,067
Total	\$ 2,296	\$ 112	\$ 2,184

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Combined Notes to Consolidated Financial Statements – (Continued)

Operating and Capital Lease Commitments

The Duke Energy Registrants lease office buildings, railcars, vehicles and other property and equipment with various terms and expiration dates. Additionally, Duke Energy Carolinas and Duke Energy Progress have capital leases related to firm natural gas pipeline transportation capacity. Duke Energy Progress and Duke Energy Florida have entered into certain purchased power agreements, which are classified as leases. Consolidated capitalized lease obligations are classified as Long-Term Debt or Other within Current Liabilities on the Consolidated Balance Sheets. Amortization of assets recorded under capital leases is included in Depreciation and amortization and Fuel used in electric generation and purchased power on the Consolidated Statements of Operations.

The following tables present rental expense for operating leases. These amounts are included in Operation, maintenance and other and Fuel used in electric generation and purchased power on the Consolidated Statements of Operations.

(in millions)	Years Ended December 31,		
	2018	2017	2016
Duke Energy	\$268	\$241	\$ 242
Duke Energy Carolinas	49	44	45
Progress Energy	143	130	140
Duke Energy Progress	75	75	68
Duke Energy Florida	68	55	72
Duke Energy Ohio	13	15	16
Duke Energy Indiana	21	23	23

(in millions)	Years Ended December 31,		Two Months Ended	Year Ended
	2018	2017	December 31, 2016	October 31, 2016
Piedmont	\$11	\$ 7	\$ 1	\$ 5

The following table presents future minimum lease payments under operating leases, which at inception had a non-cancelable term of more than one year.

(in millions)	December 31, 2018							Piedmont
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	
2019	\$ 239	\$ 33	\$ 97	\$ 49	\$ 48	\$ 2	\$ 6	\$ 5
2020	219	29	90	46	44	2	5	5
2021	186	19	79	37	42	2	4	5
2022	170	19	76	34	42	2	4	5
2023	160	17	77	35	42	2	5	6
Thereafter	1,017	68	455	314	141	23	66	11
Total	\$1,991	\$185	\$ 874	\$515	\$359	\$ 33	\$90	\$ 37

The following table presents future minimum lease payments under capital leases.

(in millions)	December 31, 2018							Piedmont
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	
2019	\$ 170	\$ 20	\$ 45	\$ 20	\$ 25	\$ 2	\$ 1	\$ 1
2020	174	20	46	21	25	—	1	1
2021	177	15	45	20	25	—	1	1
2022	165	15	45	21	24	—	1	1
2023	165	15	45	21	24	—	1	1
Thereafter	577	204	230	209	21	—	27	27
Minimum annual payments	1,428	289	456	312	144	2	32	32
Less: amount representing interest	(487)	(180)	(205)	(175)	(30)	—	(22)	(22)
Total	\$ 941	\$ 109	\$ 251	\$ 137	\$ 114	\$ 2	\$ 10	\$ 10

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

6. DEBT AND CREDIT FACILITIES

SUMMARY OF DEBT AND RELATED TERMS

The following tables summarize outstanding debt.

(in millions)	December 31, 2018								
	Weighted Average Interest Rate	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unsecured debt, maturing 2019-2078	4.26%	\$ 20,955	\$ 1,150	\$ 3,800	\$ 50	\$ 350	\$ 1,000	\$ 408	\$ 2,150
Secured debt, maturing 2020-2037	3.69%	4,297	450	1,703	300	1,403	—	—	—
First mortgage bonds, maturing 2019-2048 ^(a)	4.32%	25,628	8,759	13,100	7,574	5,526	1,099	2,670	—
Capital leases, maturing 2019-2051 ^(b)	5.06%	941	109	251	137	114	2	10	—
Tax-exempt bonds, maturing 2019-2041 ^(c)	3.40%	941	243	48	48	—	77	572	—
Notes payable and commercial paper ^(d)	2.73%	4,035	—	—	—	—	—	—	—
Money pool/intercompany borrowings	—	—	739	1,385	444	108	299	317	198
Fair value hedge carrying value adjustment	—	5	5	—	—	—	—	—	—
Unamortized debt discount and premium, net ^(e)	—	1,434	(23)	(29)	(15)	(11)	(31)	(8)	(1)
Unamortized debt issuance costs ^(f)	—	(297)	(54)	(112)	(40)	(61)	(7)	(20)	(11)
Total debt	4.13%	\$ 57,939	\$ 11,378	\$ 20,146	\$ 8,498	\$ 7,429	\$ 2,439	\$ 3,949	\$ 2,336
Short-term notes payable and commercial paper	—	(3,410)	—	—	—	—	—	—	—
Short-term money pool/intercompany borrowings	—	—	(439)	(1,235)	(294)	(108)	(274)	(167)	(198)
Current maturities of long-term debt ^(g)	—	(3,406)	(6)	(1,672)	(603)	(270)	(551)	(63)	(350)
Total long-term debt ^(g)	—	\$ 51,123	\$ 10,933	\$ 17,239	\$ 7,601	\$ 7,051	\$ 1,614	\$ 3,719	\$ 1,788

(a) Substantially all electric utility property is mortgaged under mortgage bond indentures.

(b) Duke Energy includes \$63 million and \$531 million of capital lease purchase accounting adjustments related to Duke Energy Progress and Duke Energy Florida, respectively, related to power purchase agreements that are not accounted for as capital leases in their respective financial statements because of grandfathering provisions in GAAP.

(c) Substantially all tax-exempt bonds are secured by first mortgage bonds, letters of credit or the Master Credit Facility.

(d) Includes \$625 million that was classified as Long-Term Debt on the Consolidated Balance Sheets due to the existence of long-term credit facilities that backstop these commercial paper balances, along with Duke Energy's ability and intent to refinance these balances on a long-term basis. The weighted average days to maturity for Duke Energy's commercial paper program was 16 days.

(e) Duke Energy includes \$1,380 million and \$156 million in purchase accounting adjustments related to Progress Energy and Piedmont, respectively.

(f) Duke Energy includes \$41 million in purchase accounting adjustments primarily related to the merger with Progress Energy.

(g) Refer to Note 17 for additional information on amounts from consolidated VIEs.

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	December 31, 2017								
	Weighted Average Interest Rate	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unsecured debt, maturing 2018-2073	4.17%	\$ 20,409	\$ 1,150	\$ 3,950	\$ —	\$ 550	\$ 900	\$ 411	\$ 2,050
Secured debt, maturing 2018-2037	3.15%	4,458	450	1,757	300	1,457	—	—	—
First mortgage bonds, maturing 2018-2047 ^(a)	4.51%	23,529	7,959	11,801	6,776	5,025	1,100	2,669	—
Capital leases, maturing 2018-2051 ^(b)	4.55%	1,000	61	269	139	129	5	11	—
Tax-exempt bonds, maturing 2019-2041 ^(c)	3.23%	941	243	48	48	—	77	572	—
Notes payable and commercial paper ^(d)	1.57%	2,788	—	—	—	—	—	—	—
Money pool/intercompany borrowings	—	—	404	955	390	—	54	311	364
Fair value hedge carrying value adjustment	—	6	6	—	—	—	—	—	—
Unamortized debt discount and premium, net ^(e)	—	1,582	(19)	(30)	(16)	(10)	(33)	(9)	(1)
Unamortized debt issuance costs ^(f)	—	(271)	(47)	(108)	(40)	(56)	(7)	(21)	(12)
Total debt	4.09%	\$ 54,442	\$ 10,207	\$ 18,642	\$ 7,597	\$ 7,095	\$ 2,096	\$ 3,944	\$ 2,401
Short-term notes payable and commercial paper	—	(2,163)	—	—	—	—	—	—	—
Short-term money pool/intercompany borrowings	—	—	(104)	(805)	(240)	—	(29)	(161)	(364)
Current maturities of long-term debt ^(g)	—	(3,244)	(1,205)	(771)	(3)	(768)	(3)	(3)	(250)
Total long-term debt ^(g)	—	\$ 49,035	\$ 8,898	\$ 17,066	\$ 7,354	\$ 6,327	\$ 2,064	\$ 3,780	\$ 1,787

(a) Substantially all electric utility property is mortgaged under mortgage bond indentures.

(b) Duke Energy includes \$81 million and \$603 million of capital lease purchase accounting adjustments related to Duke Energy Progress and Duke Energy Florida, respectively, related to power purchase agreements that are not accounted for as capital leases in their respective financial statements because of grandfathering provisions in GAAP.

(c) Substantially all tax-exempt bonds are secured by first mortgage bonds, letters of credit or the Master Credit Facility.

(d) Includes \$625 million that was classified as Long-Term Debt on the Consolidated Balance Sheets due to the existence of long-term credit facilities that backstop these commercial paper balances, along with Duke Energy's ability and intent to refinance these balances on a long-term basis. The weighted average days to maturity for Duke Energy's commercial paper programs was 14 days.

(e) Duke Energy includes \$1,509 million and \$176 million purchase accounting adjustments related to the mergers with Progress Energy and Piedmont, respectively.

(f) Duke Energy includes \$47 million in purchase accounting adjustments primarily related to the merger with Progress Energy.

(g) Refer to Note 17 for additional information on amounts from consolidated VIEs.

CURRENT MATURITIES OF LONG-TERM DEBT

The following table shows the significant components of Current maturities of Long-Term Debt on the Consolidated Balance Sheets. The Duke Energy Registrants currently anticipate satisfying these obligations with cash on hand and proceeds from additional borrowings.

(in millions)	Maturity Date	Interest Rate	December 31, 2018
Unsecured Debt			
Progress Energy	March 2019	7.050%	\$ 450
Duke Energy (Parent)	September 2019	5.050%	500
Piedmont	September 2019	3.155% ^(b)	350
Duke Energy Kentucky	October 2019	4.65%	100
Progress Energy	December 2019	4.875%	350
First Mortgage Bonds			
Duke Energy Progress	January 2019	5.300%	600
Duke Energy Ohio	April 2019	5.450%	450
Other^(a)			606
Current maturities of long-term debt			\$ 3,406

(a) Includes capital lease obligations, amortizing debt and small bullet maturities.

(b) Debt has a floating interest rate.

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Combined Notes to Consolidated Financial Statements – (Continued)

Maturities and Call Options

The following table shows the annual maturities of long-term debt for the next five years and thereafter. Amounts presented exclude short-term notes payable and commercial paper and money pool borrowings for the Subsidiary Registrants.

(in millions)	December 31, 2018							
	Duke Energy ^(a)	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
2019	\$ 3,408	\$ 6	\$ 1,674	\$ 603	\$ 270	\$ 552	\$ 63	\$ 350
2020	3,765	907	926	354	572	—	503	—
2021	4,803	503	2,004	904	600	50	70	160
2022	2,745	353	1,032	505	77	—	94	—
2023	3,375	1,303	535	456	79	350	153	45
Thereafter	35,288	7,940	12,880	5,437	5,793	1,251	2,925	1,595
Total long-term debt, including current maturities	\$ 53,384	\$11,012	\$ 19,051	\$ 8,259	\$ 7,391	\$ 2,203	\$ 3,808	\$ 2,150

(a) Excludes \$1,578 million in purchase accounting adjustments related to the Progress Energy merger and the Piedmont acquisition.

The Duke Energy Registrants have the ability under certain debt facilities to call and repay the obligation prior to its scheduled maturity. Therefore, the actual timing of future cash repayments could be materially different than as presented above.

Short-Term Obligations Classified as Long-Term Debt

Tax-exempt bonds that may be put to the Duke Energy Registrants at the option of the holder and certain commercial paper issuances and money pool borrowings are classified as Long-Term Debt on the Consolidated Balance Sheets. These tax-exempt bonds, commercial paper issuances and money pool borrowings, which are short-term obligations by nature, are classified as long term due to Duke Energy's intent and ability to utilize such borrowings as long-term financing. As Duke Energy's Master Credit Facility and other bilateral letter of credit agreements have non-cancelable terms in excess of one year as of the balance sheet date, Duke Energy has the ability to refinance these short-term obligations on a long-term basis. The following tables show short-term obligations classified as long-term debt.

(in millions)	December 31, 2018				
	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Ohio	Duke Energy Indiana
Tax-exempt bonds	\$ 312	\$ —	\$ —	\$ 27	\$ 285
Commercial paper ^(a)	625	300	150	25	150
Total	\$ 937	\$ 300	\$ 150	\$ 52	\$ 435

(in millions)	December 31, 2017				
	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Ohio	Duke Energy Indiana
Tax-exempt bonds	\$ 312	\$ —	\$ —	\$ 27	\$ 285
Commercial paper ^(a)	625	300	150	25	150
Total	\$ 937	\$ 300	\$ 150	\$ 52	\$ 435

(a) Progress Energy amounts are equal to Duke Energy Progress amounts.

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

Summary of Significant Debt Issuances

In January 2019, Duke Energy Ohio issued \$800 million of first mortgage bonds. The issuance was split between a \$400 million, 10-year tranche at 3.65 percent and a \$400 million, 30-year tranche at 4.30 percent. The net proceeds will be used to refinance \$450 million of Duke Energy Ohio bonds maturing in April 2019, to pay down short-term debt and for general corporate purposes.

The following tables summarize significant debt issuances (in millions).

			Year Ended December 31, 2018				
			Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida
Issuance Date	Maturity Date	Interest Rate					
Unsecured Debt							
March 2018 ^(a)	April 2025	3.950%	\$ 250	\$ 250	\$ —	\$ —	\$ —
May 2018 ^(b)	May 2021	3.114%	500	500	—	—	—
September 2018 ^(c)	September 2078	5.625%	500	500	—	—	—
First Mortgage Bonds							
March 2018 ^(d)	March 2023	3.050%	500	—	500	—	—
March 2018 ^(d)	March 2048	3.950%	500	—	500	—	—
June 2018 ^(e)	July 2028	3.800%	600	—	—	—	600
June 2018 ^(e)	July 2048	4.200%	400	—	—	—	400
August 2018 ^(f)	September 2023	3.375%	300	—	—	300	—
August 2018 ^(f)	September 2028	3.700%	500	—	—	500	—
November 2018 ^(g)	May 2022	3.350%	350	—	350	—	—
November 2018 ^(g)	November 2028	3.950%	650	—	650	—	—
Total issuances			\$ 5,050	\$ 1,250	\$ 2,000	\$ 800	\$ 1,000

(a) Debt issued to pay down short-term debt.

(b) Debt issued to pay down short-term debt. Debt issuance has a floating debt rate.

(c) Callable after September 2023 at par. Junior subordinated hybrid debt issued to pay down short-term debt and for general corporate purposes.

(d) Debt issued to repay at maturity a \$300 million first mortgage bond due April 2018, pay down intercompany short-term debt and for general corporate purposes.

(e) Debt issued to repay a portion of intercompany short-term debt under the money pool borrowing arrangement and for general corporate purposes.

(f) Debt issued to repay short-term debt and for general corporate purposes.

(g) Debt issued to fund eligible green energy projects, including zero-carbon solar and energy storage, in the Carolinas.

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Combined Notes to Consolidated Financial Statements – (Continued)

			Year Ended December 31, 2017					
			Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio
Issuance Date	Maturity Date	Interest Rate						
Unsecured Debt								
April 2017 ^(a)	April 2025	3.364%	\$ 420	\$ 420	\$ —	\$ —	\$ —	\$ —
June 2017 ^(b)	June 2020	2.100%	330	330	—	—	—	—
August 2017 ^(c)	August 2022	2.400%	500	500	—	—	—	—
August 2017 ^(c)	August 2027	3.150%	750	750	—	—	—	—
August 2017 ^(c)	August 2047	3.950%	500	500	—	—	—	—
December 2017 ^(d)	December 2019 ^(k)	2.100%	400	—	—	—	400	—
Secured Debt								
February 2017 ^(e)	June 2034	4.120%	587	—	—	—	—	—
August 2017 ^(f)	December 2036	4.110%	233	—	—	—	—	—
First Mortgage Bonds								
January 2017 ^(g)	January 2020	1.850%	250	—	—	—	250	—
January 2017 ^(g)	January 2027	3.200%	650	—	—	—	650	—
March 2017 ^(h)	June 2046	3.700%	100	—	—	—	—	100
September 2017 ⁽ⁱ⁾	September 2020	1.500% ^(l)	300	—	—	300	—	—
September 2017 ⁽ⁱ⁾	September 2047	3.600%	500	—	—	500	—	—
November 2017 ^(j)	December 2047	3.700%	550	—	550	—	—	—
Total issuances			\$ 6,070	\$ 2,500	\$ 550	\$ 800	\$ 1,300	\$ 100

(a) Proceeds were used to refinance \$400 million of unsecured debt at maturity and to repay a portion of outstanding commercial paper.

(b) Debt issued to repay a portion of outstanding commercial paper.

(c) Debt issued to repay at maturity \$700 million of unsecured debt, to repay outstanding commercial paper and for general corporate purposes.

(d) Debt issued to fund storm restoration costs related to Hurricane Irma and for general corporate purposes.

(e) Portfolio financing of four Texas and Oklahoma wind facilities. Duke Energy pledged substantially all of the assets of these wind facilities and is nonrecourse to Duke Energy. Proceeds were used to reimburse Duke Energy for a portion of previously funded construction expenditures.

(f) Portfolio financing of eight solar facilities located in California, Colorado and New Mexico. Duke Energy pledged substantially all of the assets of these solar facilities and is nonrecourse to Duke Energy. Proceeds were used to reimburse Duke Energy for a portion of previously funded construction expenditures.

(g) Debt issued to fund capital expenditures for ongoing construction and capital maintenance, to repay a \$250 million aggregate principal amount of bonds at maturity and for general corporate purposes.

(h) Proceeds were used to fund capital expenditures for ongoing construction, capital maintenance and for general corporate purposes.

(i) Debt issued to repay at maturity a \$200 million aggregate principal amount of bonds at maturity, pay down intercompany short-term debt and for general corporate purposes, including capital expenditures.

(j) Debt issued to refinance \$400 million aggregate principal amount of bonds due January 2018, pay down intercompany short-term debt and for general corporate purposes.

(k) Principal balance will be repaid in equal quarterly installments beginning in March 2018.

(l) Debt issuance has a floating interest rate.

Available Credit Facilities

In January 2018, Duke Energy extended the termination date of substantially all of its existing \$8 billion Master Credit Facility capacity from March 16, 2022, to March 16, 2023. In May 2018, Duke Energy completed the extension process with 100 percent of all commitments to the Master Credit Facility extending to March 16, 2023. The Duke Energy Registrants, excluding Progress Energy (Parent), have borrowing capacity under the Master Credit Facility up to specified sublimits for each borrower. Duke Energy has the unilateral ability at any time to increase or decrease the borrowing sublimits of

each borrower, subject to a maximum sublimit for each borrower. The amount available under the Master Credit Facility has been reduced to backstop issuances of commercial paper, certain letters of credit and variable-rate demand tax-exempt bonds that may be put to the Duke Energy Registrants at the option of the holder. Duke Energy Carolinas and Duke Energy Progress are also required to each maintain \$250 million of available capacity under the Master Credit Facility as security to meet obligations under plea agreements reached with the U.S. Department of Justice in 2015 related to violations at North Carolina facilities with ash basins.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

The table below includes the current borrowing sublimits and available capacity under these credit facilities.

	December 31, 2018							
(in millions)	Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Facility size ^(a)	\$ 8,000	\$ 2,650	\$ 1,750	\$ 1,400	\$ 650	\$ 450	\$ 600	\$ 500
Reduction to backstop issuances								
Commercial paper ^(b)	(3,022)	(917)	(739)	(444)	(108)	(299)	(317)	(198)
Outstanding letters of credit	(53)	(45)	(4)	(2)	—	—	—	(2)
Tax-exempt bonds	(81)	—	—	—	—	—	(81)	—
Coal ash set-aside	(500)	—	(250)	(250)	—	—	—	—
Available capacity	\$ 4,344	\$ 1,688	\$ 757	\$ 704	\$ 542	\$ 151	\$ 202	\$ 300

(a) Represents the sublimit of each borrower.

(b) Duke Energy issued \$625 million of commercial paper and loaned the proceeds through the money pool to Duke Energy Carolinas, Duke Energy Progress, Duke Energy Ohio and Duke Energy Indiana. The balances are classified as Long-Term Debt Payable to Affiliated Companies in the Consolidated Balance Sheets.

Three-Year Revolving Credit Facility

Duke Energy (Parent) has a \$1.0 billion revolving credit facility through June 2020. Borrowings under this facility will be used for general corporate purposes. As of December 31, 2018, \$500 million has been drawn under the Three Year Revolver. This balance is classified as Long-term debt on Duke Energy's Consolidated Balance Sheets. Any undrawn commitments can be drawn, and borrowings can be prepaid, at any time throughout the term of the facility. The terms and conditions of the Three Year Revolver are generally consistent with those governing Duke Energy's Master Credit Facility.

Duke Energy Progress Term Loan Facility

In December 2018, Duke Energy Progress entered into a two-year term loan facility with commitments totaling \$700 million. Borrowings under the facility will be used to pay storm-related costs, pay down commercial paper and to partially finance an upcoming bond maturity. As of December 31, 2018, \$50 million has been drawn under the term loan. The balance is classified as Long-term debt on Duke Energy Progress' Consolidated Balance Sheets. In January and February 2019, the remaining \$650 million was drawn under the term loan.

Piedmont Term Loan Facility

In September 2018, Piedmont executed an amendment to its existing senior unsecured term loan facility. The amendment increased commitments from \$250 million to \$350 million and extended the maturity date to September 2019. Borrowings under the facility will be used for general corporate purposes. As of December 31, 2018, the entire \$350 million has been drawn under the Piedmont Term Loan. This balance is classified as Current maturities of long-term debt on Piedmont's Consolidated Balance Sheets. The terms and conditions of the Piedmont Term Loan are generally consistent with those governing Duke Energy's Master Credit Facility.

Other Debt Matters

In September 2016, Duke Energy filed a Form S-3 with the SEC. Under this Form S-3, which is uncapped, the Duke Energy Registrants, excluding Progress Energy, may issue debt and other securities in the future at amounts, prices and with terms to be determined at the time of future offerings. The registration statement was filed to replace a similar prior filing upon expiration of its three-year term and also allows for the issuance of common stock by Duke Energy.

Duke Energy has an effective Form S-3 with the SEC to sell up to \$3 billion of variable denomination floating-rate demand notes, called PremierNotes. The Form S-3 states that no more than \$1.5 billion of the notes will be outstanding at any particular time. The notes are offered on a continuous basis and bear interest at a floating rate per annum determined by the Duke Energy PremierNotes Committee, or its designee, on a weekly basis. The interest rate payable on notes held by an investor may vary based on the principal amount of the investment. The notes have no stated maturity date, are non-transferable and may be redeemed in whole or in part by Duke Energy or at the investor's option at any time. The balance as of December 31, 2018, and 2017 was \$1,010 million and \$986 million, respectively. The notes are short-term debt obligations of Duke Energy and are reflected as Notes payable and commercial paper on Duke Energy's Consolidated Balance Sheets.

In January 2017, Duke Energy amended its Form S-3 to add Piedmont as a registrant and included in the amendment a prospectus for Piedmont under which it may issue debt securities in the same manner as other Duke Energy Registrants.

Money Pool

The Subsidiary Registrants, excluding Progress Energy (Parent), are eligible to receive support for their short-term borrowing needs through participation with Duke Energy and certain of its subsidiaries in a money pool arrangement. Under this arrangement, those companies with short-term funds may provide short-term loans to affiliates participating in this arrangement. The money pool is structured such that the Subsidiary Registrants, excluding Progress Energy (Parent), separately manage their cash needs and working capital requirements. Accordingly, there is no net settlement of receivables and payables between money pool participants. Duke Energy (Parent), may loan funds to its participating subsidiaries, but may not borrow funds through the money pool. Accordingly, as the money pool activity is between Duke Energy and its wholly owned subsidiaries, all money pool balances are eliminated within Duke Energy's Consolidated Balance Sheets.

Money pool receivable balances are reflected within Notes receivable from affiliated companies on the Subsidiary Registrants' Consolidated Balance Sheets. Money pool payable balances are reflected within either Notes payable to affiliated companies or Long-Term Debt Payable to Affiliated Companies on the Subsidiary Registrants' Consolidated Balance Sheets.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Restrictive Debt Covenants

The Duke Energy Registrants' debt and credit agreements contain various financial and other covenants. Duke Energy's Master Credit Facility contains a covenant requiring the debt-to-total capitalization ratio not to exceed 65 percent for each borrower, excluding Piedmont, and 70 percent for Piedmont. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements. As of December 31, 2018, each of the Duke Energy Registrants was in compliance with all covenants related to their debt agreements. In addition, some credit agreements may allow for acceleration of payments or termination

of the agreements due to nonpayment, or acceleration of other significant indebtedness of the borrower or some of its subsidiaries. None of the debt or credit agreements contain material adverse change clauses.

Other Loans

As of December 31, 2018, and 2017, Duke Energy had loans outstanding of \$741 million, including \$37 million at Duke Energy Progress and \$701 million, including \$38 million at Duke Energy Progress, respectively, against the cash surrender value of life insurance policies it owns on the lives of its executives. The amounts outstanding were carried as a reduction of the related cash surrender value that is included in Other within Other Noncurrent Assets on the Consolidated Balance Sheets.

7. GUARANTEES AND INDEMNIFICATIONS

Duke Energy and Progress Energy have various financial and performance guarantees and indemnifications, which are issued in the normal course of business. As discussed below, these contracts include performance guarantees, standby letters of credit, debt guarantees, surety bonds and indemnifications. Duke Energy and Progress Energy enter into these arrangements to facilitate commercial transactions with third parties by enhancing the value of the transaction to the third party. At December 31, 2018, Duke Energy and Progress Energy do not believe conditions are likely for significant performance under these guarantees. To the extent liabilities are incurred as a result of the activities covered by the guarantees, such liabilities are included on the accompanying Consolidated Balance Sheets.

On January 2, 2007, Duke Energy completed the spin-off of its natural gas businesses to shareholders. Guarantees issued by Duke Energy or its affiliates, or assigned to Duke Energy prior to the spin-off, remained with Duke Energy subsequent to the spin-off. Guarantees issued by Spectra Capital or its affiliates prior to the spin-off remained with Spectra Capital subsequent to the spin-off, except for guarantees that were later assigned to Duke Energy. Duke Energy has indemnified Spectra Capital against any losses incurred under certain of the guarantee obligations that remain with Spectra Capital. At December 31, 2018, the maximum potential amount of future payments associated with these guarantees was \$205 million, the majority of which expires by 2028.

Duke Energy has issued performance guarantees to customers and other third parties that guarantee the payment and performance of other parties, including certain non-wholly owned entities, as well as guarantees of debt of certain non-consolidated entities and less than wholly owned consolidated entities. If such entities were to default on payments or performance, Duke Energy would be required under the guarantees to make payments on the obligations of the less than wholly owned entity. The maximum potential amount of future payments required under these guarantees as of December 31, 2018, was \$296 million. Of this amount, \$11 million relates to guarantees issued on behalf of less than wholly owned consolidated entities, with the remainder related to guarantees issued on behalf of third parties and unconsolidated

affiliates of Duke Energy. Of the guarantees noted above, \$248 million of the guarantees expire between 2019 and 2030, with the remaining performance guarantees having no contractual expiration.

In October 2017, ACP executed a \$3.4 billion revolving credit facility with a stated maturity date of October 2021. Duke Energy entered into a guarantee agreement to support its share of the ACP revolving credit facility. Duke Energy's maximum exposure to loss under the terms of the guarantee is \$677 million as of December 31, 2018. This amount represents 47 percent of the outstanding borrowings under the credit facility.

Duke Energy guaranteed debt issued by Duke Energy Carolinas of \$650 million as of December 31, 2018, and 2017.

Duke Energy has guaranteed certain issuers of surety bonds, obligating itself to make payment upon the failure of a wholly owned and former non-wholly owned entity to honor its obligations to a third party. Under these arrangements, Duke Energy has payment obligations that are triggered by a draw by the third party or customer due to the failure of the wholly owned or former non-wholly owned entity to perform according to the terms of its underlying contract. At December 31, 2018, Duke Energy had guaranteed \$63 million of outstanding surety bonds, most of which have no set expiration.

Duke Energy uses bank-issued standby letters of credit to secure the performance of wholly owned and non-wholly owned entities to a third party or customer. Under these arrangements, Duke Energy has payment obligations to the issuing bank that are triggered by a draw by the third party or customer due to the failure of the wholly owned or non-wholly owned entity to perform according to the terms of its underlying contract. At December 31, 2018, Duke Energy had issued a total of \$454 million in letters of credit, which expire between 2019 and 2022. The unused amount under these letters of credit was \$60 million.

Duke Energy recognized \$23 million and \$21 million, as of December 31, 2018, and 2017, respectively, primarily in Other within Other Noncurrent Liabilities on the Consolidated Balance Sheets, for the guarantees discussed above. As current estimates change, additional losses related to guarantees and indemnifications to third parties, which could be material, may be recorded by the Duke Energy Registrants in the future.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

8. JOINT OWNERSHIP OF GENERATING AND TRANSMISSION FACILITIES

The Duke Energy Registrants maintain ownership interests in certain jointly owned generating and transmission facilities. The Duke Energy Registrants are entitled to a share of the generating capacity and output of each unit equal to their respective ownership interests. The Duke Energy Registrants pay their ownership share of additional construction costs, fuel inventory

purchases and operating expenses. The Duke Energy Registrants share of revenues and operating costs of the jointly owned facilities is included within the corresponding line in the Consolidated Statements of Operations. Each participant in the jointly owned facilities must provide its own financing.

The following table presents the Duke Energy Registrants' interest of jointly owned plant or facilities and amounts included on the Consolidated Balance Sheets. All facilities are operated by the Duke Energy Registrants and are included in the Electric Utilities and Infrastructure segment.

(in millions except for ownership interest)	December 31, 2018			
	Ownership Interest	Property, Plant and Equipment	Accumulated Depreciation	Construction Work in Progress
Duke Energy Carolinas				
Catawba (units 1 and 2) ^(a)	19.25%	\$ 989	\$ 483	\$ 17
W.S. Lee CC ^(b)	86.67%	593	12	4
Duke Energy Indiana				
Gibson (unit 5) ^(c)	50.05%	390	173	3
Vermillion ^(d)	62.50%	168	135	—
Transmission and local facilities ^(c)	Various	5,037	1,769	—

(a) Jointly owned with North Carolina Municipal Power Agency Number 1, NCEMC and PMPA.

(b) Jointly owned with NCEMC.

(c) Jointly owned with WVPA and Indiana Municipal Power Agency.

(d) Jointly owned with WVPA.

Effective June 30, 2018, Duke Energy Ohio, Ohio Power Company, and The Dayton Power and Light Company, completed an asset exchange that reallocated their ownership interest in certain jointly owned transmission facilities. This transaction was approved by FERC and PUCO. The transaction eliminated the

joint owner relationships for these assets. Assets were exchanged at net book value and the net increase in Duke Energy Ohio's assets are shown within Capital expenditures in Duke Energy Ohio's Consolidated Statements of Cash Flows.

9. ASSET RETIREMENT OBLIGATIONS

Duke Energy records an ARO when it has a legal obligation to incur retirement costs associated with the retirement of a long-lived asset and the obligation can be reasonably estimated. Certain assets of the Duke Energy Registrants have an indeterminate life, such as transmission and distribution facilities, and thus the fair value of the retirement obligation is not reasonably estimable. A liability for these AROs will be recorded when a fair value is determinable.

The Duke Energy Registrants' regulated operations accrue costs of removal for property that does not have an associated legal retirement obligation based on regulatory orders from state commissions. These costs of removal are recorded as a regulatory liability in accordance with regulatory accounting treatment. The Duke Energy Registrants do not accrue the estimated cost of removal for any nonregulated assets. See Note 4 for the estimated cost of removal for assets without an associated legal retirement obligation, which are included in Regulatory liabilities on the Consolidated Balance Sheets.

The following table presents the AROs recorded on the Consolidated Balance Sheets.

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Decommissioning of nuclear power facilities ^(a)	\$ 5,696	\$ 2,335	\$ 3,209	\$ 2,679	\$ 530	\$ —	\$ —	\$ —
Closure of ash impoundments	4,446	1,568	2,123	2,103	20	52	702	—
Other ^(b)	325	46	79	38	41	41	20	19
Total asset retirement obligation	\$ 10,467	\$ 3,949	\$ 5,411	\$ 4,820	\$ 591	\$ 93	\$ 722	\$ 19
Less: current portion	919	290	514	509	5	6	109	—
Total noncurrent asset retirement obligation	\$ 9,548	\$ 3,659	\$ 4,897	\$ 4,311	\$ 586	\$ 87	\$ 613	\$ 19

(a) Duke Energy amount includes purchase accounting adjustments related to the merger with Progress Energy.

(b) Primarily includes obligations related to asbestos removal. Duke Energy Ohio and Piedmont also include AROs related to the retirement of natural gas mains and services. Duke Energy includes AROs related to the removal of renewable energy generation assets.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Nuclear Decommissioning Liability

AROs related to nuclear decommissioning are based on site-specific cost studies. The NCUC, PSCSC and FPSC require updated cost estimates for decommissioning nuclear plants every five years.

The following table summarizes information about the most recent site-specific nuclear decommissioning cost studies. Decommissioning costs are stated in 2018 dollars for Duke Energy Carolinas, 2017 dollars for Duke Energy Florida and 2014 dollars for Duke Energy Progress, and include costs to decommission plant components not subject to radioactive contamination.

(in millions)	Annual Funding Requirement ^(a)	Decommissioning Costs ^(a)	Year of Cost Study
Duke Energy	\$ 24	\$ 8,737	2014 and 2018
Duke Energy Carolinas ^{(b)(c)}	—	4,291	2018
Duke Energy Progress	24	3,550	2014
Duke Energy Florida ^(d)	—	896	2018

- (a) Amounts for Progress Energy equal the sum of Duke Energy Progress and Duke Energy Florida.
(b) Decommissioning cost for Duke Energy Carolinas reflects its ownership interest in jointly owned reactors. Other joint owners are responsible for decommissioning costs related to their interest in the reactors.
(c) Duke Energy Carolinas' site-specific nuclear decommissioning cost study completed in 2018 is expected to be filed with the NCUC and PSCSC by the second quarter 2019. Duke Energy Carolinas will also complete a new funding study, which will be completed and filed with the NCUC and PSCSC in 2019.
(d) Duke Energy Florida's site-specific nuclear decommissioning cost study and a new funding study were completed and filed with the FPSC in 2018.

Nuclear Decommissioning Trust Funds

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida each maintain NDTFs that are intended to pay for the decommissioning costs of their respective nuclear power plants. The NDTF investments are managed and invested in accordance with applicable requirements of various regulatory bodies including the NRC, FERC, NCUC, PSCSC, FPSC and the IRS.

Use of the NDTF investments is restricted to nuclear decommissioning activities including license termination, spent fuel and site restoration. The license termination and spent fuel obligations relate to contaminated decommissioning and are recorded as AROs. The site restoration obligation relates to non-contaminated decommissioning and is recorded to cost of removal within Regulatory liabilities on the Consolidated Balance Sheets.

The following table presents the fair value of NDTF assets legally restricted for purposes of settling AROs associated with nuclear decommissioning. Duke Energy Florida is actively decommissioning Crystal River Unit 3 and was granted an exemption from the NRC, which allows for use of the NDTF for all aspects of nuclear decommissioning. The entire balance of Duke Energy Florida's NDTF may be applied toward license termination, spent fuel and site restoration costs incurred to decommission Crystal River Unit 3 and is excluded from the table below. See Note 16 for additional information related to the fair value of the Duke Energy Registrants' NDTFs.

(in millions)	December 31,	
	2018	2017
Duke Energy	\$ 5,579	\$ 5,864
Duke Energy Carolinas	3,133	3,321
Duke Energy Progress	2,446	2,543

Nuclear Operating Licenses

Operating licenses for nuclear units are potentially subject to extension. The following table includes the current expiration of nuclear operating licenses.

Unit	Year of Expiration
Duke Energy Carolinas	
Catawba Units 1 and 2	2043
McGuire Unit 1	2041
McGuire Unit 2	2043
Oconee Units 1 and 2	2033
Oconee Unit 3	2034
Duke Energy Progress	
Brunswick Unit 1	2036
Brunswick Unit 2	2034
Harris	2046
Robinson	2030

The NRC has acknowledged permanent cessation of operation and permanent removal of fuel from the reactor vessel at Crystal River Unit 3. Therefore, the license no longer authorizes operation of the reactor. In January 2018, Crystal River Unit 3 reached a SAFSTOR status.

Closure of Ash Impoundments

The Duke Energy Registrants are subject to state and federal regulations covering the closure of coal ash impoundments, including the EPA CCR rule and the Coal Ash Act, and other agreements. AROs recorded on the Duke Energy Registrants' Consolidated Balance Sheets include the legal obligation for closure of coal ash basins and the disposal of related ash as a result of these regulations and agreements.

The ARO amount recorded on the Consolidated Balance Sheets is based upon estimated closure costs for impacted ash impoundments. The amount recorded represents the discounted cash flows for estimated closure costs based upon either specific closure plans or the probability weightings of the potential closure methods as evaluated on a site-by-site basis. Actual costs to be incurred will be dependent upon factors that vary from site to site. The most significant factors are the method and time frame of closure at the individual sites. Closure methods considered include removing the water from ash basins, consolidating material as necessary and capping the ash with a synthetic barrier, excavating and relocating the ash to a lined structural fill or lined landfill or recycling the ash for concrete or some other beneficial use. The ultimate method and timetable for closure will be in compliance with standards set by federal and state regulations and other agreements. The ARO amount will be adjusted as additional information is gained through the closure and post-closure process, including acceptance and approval of compliance approaches, which may change management assumptions, and may result in a material change to the balance. See ARO Liability Rollforward section below for information on revisions made to the coal ash liability during 2018 and 2017.

Asset retirement costs associated with the AROs for operating plants and retired plants are included in Net property, plant and equipment and Regulatory assets, respectively, on the Consolidated Balance Sheets. See Note 4 for additional information on Regulatory assets related to AROs.

Cost recovery for future expenditures will be pursued through the normal ratemaking process with federal and state utility commissions, which permit recovery of necessary and prudently incurred costs associated with Duke Energy's regulated operations. See Note 4 for additional information on recovery of coal ash costs.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

ARO Liability Rollforward

The following tables present changes in the liability associated with AROs.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Balance at December 31, 2016	\$ 10,611	\$ 3,895	\$ 5,475	\$ 4,697	\$ 778	\$ 77	\$ 866	\$ 14
Accretion expense ^(a)	435	184	228	195	33	3	32	1
Liabilities settled ^(b)	(619)	(282)	(270)	(204)	(65)	(7)	(49)	(8)
Liabilities incurred in the current year ^(c)	51	5	—	—	—	7	29	8
Revisions in estimates of cash flows	(303)	(192)	(19)	(15)	(4)	4	(97)	—
Balance at December 31, 2017	10,175	3,610	5,414	4,673	742	84	781	15
Accretion expense ^(a)	427	179	225	196	29	4	29	1
Liabilities settled ^(b)	(638)	(281)	(272)	(227)	(45)	(5)	(79)	—
Liabilities incurred in the current year ^(c)	39	8	5	—	5	—	25	—
Revisions in estimates of cash flows ^(d)	464	433	39	178	(140)	10	(34)	3
Balance at December 31, 2018	\$ 10,467	\$ 3,949	\$ 5,411	\$ 4,820	\$ 591	\$ 93	\$ 722	\$ 19

(a) Substantially all accretion expense for the years ended December 31, 2018, and 2017 relates to Duke Energy's regulated operations and has been deferred in accordance with regulatory accounting treatment.

(b) Amounts primarily relate to ash impoundment closures and nuclear decommissioning of Crystal River Unit 3.

(c) Amounts primarily relate to AROs recorded as a result of state agency closure requirements at Duke Energy Indiana.

(d) Amounts primarily relate to increases in groundwater monitoring estimates for closure of ash impoundments and an increase for nuclear decommissioning costs at Duke Energy Carolinas' nuclear sites compared to original estimates, partially offset by a reduction for nuclear decommissioning at Crystal River Unit 3 compared to original estimates and modifications to the timing of expected cash flows for coal ash AROs.

10. PROPERTY, PLANT AND EQUIPMENT

The following tables summarize the property, plant and equipment for Duke Energy and its subsidiary registrants.

(in millions)	Estimated Useful Life (Years)	December 31, 2018							Piedmont
		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	
Land		\$ 2,072	\$ 472	\$ 868	\$ 445	\$ 423	\$ 136	\$ 116	\$ 448
Plant – Regulated									
Electric generation, distribution and transmission	15-100	100,706	38,468	42,760	26,147	16,613	5,182	14,292	—
Natural gas transmission and distribution	12-80	8,808	—	—	—	—	2,719	—	6,089
Other buildings and improvements	24-90	1,966	681	636	295	341	270	253	126
Plant – Nonregulated									
Electric generation, distribution and transmission	5-30	4,410	—	—	—	—	—	—	—
Other buildings and improvements	25-35	494	—	—	—	—	—	—	—
Nuclear fuel		3,460	1,898	1,562	1,562	—	—	—	—
Equipment	3-55	2,141	467	565	399	166	384	178	141
Construction in process		5,726	1,678	2,515	1,659	856	412	325	382
Other	3-40	4,675	1,077	1,354	952	393	257	279	300
Total property, plant and equipment ^{(a)(d)}		134,458	44,741	50,260	31,459	18,792	9,360	15,443	7,486
Total accumulated depreciation – regulated ^{(b)(c)(d)}		(41,079)	(15,496)	(16,398)	(11,423)	(4,968)	(2,717)	(4,914)	(1,575)
Total accumulated depreciation – nonregulated ^{(c)(d)}		(2,047)	—	—	—	—	—	—	—
Generation facilities to be retired, net		362	—	362	362	—	—	—	—
Total net property, plant and equipment		\$ 91,694	\$ 29,245	\$ 34,224	\$ 20,398	\$13,824	\$ 6,643	\$10,529	\$ 5,911

(a) Includes capitalized leases of \$1,237 million, \$135 million, \$257 million, \$137 million, \$120 million, \$73 million and \$35 million at Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio and Duke Energy Indiana, respectively, primarily within Plant – Regulated. The Progress Energy, Duke Energy Progress and Duke Energy Florida amounts are net of \$131 million, \$14 million and \$117 million, respectively, of accumulated amortization of capitalized leases.

(b) Includes \$1,947 million, \$1,087 million, \$860 million and \$860 million of accumulated amortization of nuclear fuel at Duke Energy, Duke Energy Carolinas, Progress Energy and Duke Energy Progress, respectively.

(c) Includes accumulated amortization of capitalized leases of \$61 million, \$12 million, \$20 million and \$10 million at Duke Energy, Duke Energy Carolinas, Duke Energy Ohio and Duke Energy Indiana, respectively.

(d) Includes gross property, plant and equipment cost of consolidated VIEs of \$4,007 million and accumulated depreciation of consolidated VIEs of \$698 million at Duke Energy.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	December 31, 2017								
	Estimated Useful Life (Years)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Land		\$ 1,559	\$ 467	\$ 767	\$ 424	\$ 343	\$ 134	\$ 111	\$ 41
Plant – Regulated									
Electric generation, distribution and transmission	8-100	93,687	35,657	39,419	24,502	14,917	4,870	13,741	—
Natural gas transmission and distribution	12-80	8,292	—	—	—	—	2,559	—	5,733
Other buildings and improvements	15-100	1,936	647	652	316	336	243	240	154
Plant – Nonregulated									
Electric generation, distribution and transmission ^(a)	5-30	4,273	—	—	—	—	—	—	—
Other buildings and improvements	25-35	465	—	—	—	—	—	—	—
Nuclear fuel		3,680	2,120	1,560	1,560	—	—	—	—
Equipment	3-55	2,122	402	555	416	139	348	169	266
Construction in process		6,995	2,614	3,059	1,434	1,625	350	416	231
Other	3-40	4,498	1,032	1,311	931	370	228	271	300
Total property, plant and equipment ^{(b)(e)}		127,507	42,939	47,323	29,583	17,730	8,732	14,948	6,725
Total accumulated depreciation – regulated ^{(c)(d)(e)}		(39,742)	(15,063)	(15,857)	(10,903)	(4,947)	(2,691)	(4,662)	(1,479)
Total accumulated depreciation – nonregulated ^{(d)(e)}		(1,795)	—	—	—	—	—	—	—
Generation facilities to be retired, net		421	—	421	421	—	—	—	—
Total net property, plant and equipment		\$ 86,391	\$ 27,876	\$ 31,887	\$ 19,101	\$ 12,783	\$ 6,041	\$ 10,286	\$ 5,246

(a) Includes a pretax impairment charge of \$58 million on a wholly owned non-contracted wind project. See discussion below.

(b) Includes capitalized leases of \$1,294 million, \$81 million, \$272 million, \$139 million, \$133 million, \$80 million and \$35 million at Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio and Duke Energy Indiana, respectively, primarily within Plant – Regulated. The Progress Energy, Duke Energy Progress and Duke Energy Florida amounts are net of \$114 million, \$11 million and \$103 million, respectively, of accumulated amortization of capitalized leases.

(c) Includes \$2,113 million, \$1,283 million, \$831 million and \$831 million of accumulated amortization of nuclear fuel at Duke Energy, Duke Energy Carolinas, Progress Energy and Duke Energy Progress, respectively.

(d) Includes accumulated amortization of capitalized leases of \$57 million, \$11 million, \$21 million and \$9 million at Duke Energy, Duke Energy Carolinas, Duke Energy Ohio and Duke Energy Indiana, respectively.

(e) Includes gross property, plant and equipment cost of consolidated VIEs of \$3,941 million and accumulated depreciation of consolidated VIEs of \$598 million at Duke Energy.

During the year ended December 31, 2017, Duke Energy recorded a pretax impairment charge of \$69 million on a wholly owned non-contracted wind project. The impairment was recorded within Impairment charges on Duke Energy's Consolidated Statements of Operations. \$58 million of the impairment related to property, plant and equipment and \$11 million of the impairment related to a net intangible asset; see Note 11 for additional information. The charge represents the excess carrying value over the estimated fair value

of the project, which was based on a Level 3 Fair Value measurement that was determined from the income approach using discounted cash flows. The impairment was primarily due to the non-contracted wind project being located in a market that has experienced continued declining market pricing during 2017 and declining long-term forecasted energy and capacity prices, driven by low natural gas prices, additional renewable generation placed in service and lack of significant load growth.

The following tables present capitalized interest, which includes the debt component of AFUDC.

(in millions)	Years Ended December 31,		
	2018	2017	2016
Duke Energy	\$161	\$128	\$100
Duke Energy Carolinas	35	45	38
Progress Energy	51	45	31
Duke Energy Progress	26	21	17
Duke Energy Florida	25	24	14
Duke Energy Ohio	17	10	8
Duke Energy Indiana	27	9	7

(in millions)	Years Ended December 31,		Two Months Ended	Year Ended
	2018	2017	December 31, 2016	October 31, 2016
Piedmont	\$ 17	\$ 12	\$ 2	\$ 12

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Operating Leases

Duke Energy's Commercial Renewables segment operates various renewable energy projects and sells the generated output to utilities, electric cooperatives, municipalities and commercial and industrial customers through long-term contracts. In certain situations, these long-term contracts and the associated renewable energy projects qualify as operating leases. Rental income from these leases is accounted for as Operating Revenues in the Consolidated Statements of Operations. There are no minimum lease payments as all payments are contingent based on actual electricity generated by the renewable energy projects. Contingent lease payments were \$268 million, \$262 million, and \$216 million for the years ended December 31, 2018, 2017 and 2016. As of December 31, 2018, renewable energy projects owned by Duke Energy and accounted for as operating leases had a cost basis of \$3,358 million and accumulated depreciation of \$602 million. These assets are principally classified as nonregulated electric generation and transmission assets.

11. GOODWILL AND INTANGIBLE ASSETS

GOODWILL

Duke Energy

The following table presents goodwill by reportable segment for Duke Energy included on Duke Energy's Consolidated Balance Sheets at December 31, 2018, and 2017.

(in millions)	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total
Goodwill Balance at December 31, 2017	\$ 17,379	\$ 1,924	\$ 122	\$ 19,425
Accumulated impairment charges ^(a)	—	—	(29)	(29)
Goodwill balance at December 31, 2017, adjusted for accumulated impairment charges	\$ 17,379	\$ 1,924	\$ 93	\$ 19,396
Goodwill Balance at December 31, 2018	\$ 17,379	\$ 1,924	\$ 122	\$ 19,425
Accumulated impairment charges^(a)	\$ —	\$ —	\$ (122)	\$ (122)
Goodwill balance at December 31, 2018, adjusted for accumulated impairment charges	\$ 17,379	\$ 1,924	\$ —	\$ 19,303

(a) Duke Energy evaluated the recoverability of goodwill during 2017 and recorded impairment charges of \$29 million related to the Energy Management Solutions reporting unit within the Commercial Renewables segment. The fair value of the reporting unit was determined based on the market approach. See "Goodwill Impairment Testing" below for the results of the 2018 goodwill impairment test.

Duke Energy Ohio

Duke Energy Ohio's Goodwill balance of \$920 million, allocated \$596 million to Electric Utilities and Infrastructure and \$324 million to Gas Utilities and Infrastructure, is presented net of accumulated impairment charges of \$216 million on the Consolidated Balance Sheets at December 31, 2018, and 2017.

Progress Energy

Progress Energy's Goodwill is included in the Electric Utilities and Infrastructure segment and there are no accumulated impairment charges.

Piedmont

Piedmont's Goodwill is included in the Gas Utilities and Infrastructure segment and there are no accumulated impairment charges.

Goodwill Impairment Testing

Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont are required to perform an annual goodwill impairment test as of the same date each year and, accordingly, perform their annual impairment testing of goodwill as of August 31. Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont update their test between annual tests if events or circumstances occur that would more likely than not reduce the fair value of a reporting unit below its carrying value.

In the third quarter of 2018, based on the results of the annual quantitative goodwill impairment test, management determined that the fair value of the Commercial Renewables reporting unit was below its respective carrying value, including goodwill. Determination of the Commercial Renewables reporting unit fair value was based on an income approach, which estimates the fair value based on discounted future cash flows. The fair value of the Commercial Renewables reporting unit is impacted by several factors, including forecasted tax credit utilization, the cost of capital, current and forecasted solar and wind volumes, and legislative developments. Certain assumptions used in determining the fair value of the reporting unit in the 2018 impairment test changed from those used in the 2017 annual impairment test including the cost of capital as a result of rising interest rates and the timing of tax credit utilization due to tax reform and IRS clarification on bonus depreciation in August 2018. Based on the quantitative impairment test, the estimated fair value of the Commercial Renewables reporting unit was below its carrying value by an immaterial amount but still more than the goodwill balance assigned to the reporting unit. As such, the entire remaining goodwill balance of approximately \$93 million was impaired during the third quarter of 2018.

The fair value of all other reporting units for Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont exceeded their respective carrying values at the date of the annual impairment analysis.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Intangible Assets

The following tables show the carrying amount and accumulated amortization of intangible assets included in Other within Other Noncurrent Assets on the Consolidated Balance Sheets of the Duke Energy Registrants at December 31, 2018, and 2017.

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Emission allowances	\$ 18	\$ —	\$ 5	\$ 2	\$ 3	\$ —	\$ 12	\$ —
Renewable energy certificates	168	46	120	120	—	2	—	—
Natural gas, coal and power contracts	24	—	—	—	—	—	24	—
Renewable operating and development projects	84	—	—	—	—	—	—	—
Other	6	—	—	—	—	—	—	3
Total gross carrying amounts	300	46	125	122	3	2	36	3
Accumulated amortization – natural gas, coal and power contracts	(20)	—	—	—	—	—	(20)	—
Accumulated amortization – renewable operating and development projects	(29)	—	—	—	—	—	—	—
Accumulated amortization – other	(5)	—	—	—	—	—	—	(3)
Total accumulated amortization	(54)	—	—	—	—	—	(20)	(3)
Total intangible assets, net	\$ 246	\$ 46	\$ 125	\$ 122	\$ 3	\$ 2	\$ 16	\$ —

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Emission allowances	\$ 19	\$ 1	\$ 5	\$ 2	\$ 3	\$ —	\$ 13	\$ —
Renewable energy certificates	148	38	107	107	—	3	—	—
Natural gas, coal and power contracts	24	—	—	—	—	—	24	—
Renewable operating and development projects	79	—	—	—	—	—	—	—
Other	6	—	—	—	—	—	—	3
Total gross carrying amounts	276	39	112	109	3	3	37	3
Accumulated amortization – natural gas, coal and power contracts	(19)	—	—	—	—	—	(19)	—
Accumulated amortization – renewable operating and development projects	(22)	—	—	—	—	—	—	—
Accumulated amortization – other	(5)	—	—	—	—	—	—	(3)
Total accumulated amortization	(46)	—	—	—	—	—	(19)	(3)
Total intangible assets, net	\$ 230	\$ 39	\$ 112	\$ 109	\$ 3	\$ 3	\$ 18	\$ —

During the year ended December 31, 2017, Duke Energy recorded a pretax impairment charge of \$69 million on a wholly owned non-contracted wind project. The impairment was recorded within Impairment charges on Duke Energy's Consolidated Statements of Operations. \$58 million of the impairment related to property, plant and equipment and \$11 million of the impairment related to a net intangible asset that was recorded in 2007 when the project was acquired. Prior to the impairment, the gross amount of the intangible asset was \$18 million and the accumulated amortization was \$7 million. The intangible asset was fully impaired. See Note 10 for additional information.

Amortization Expense

Amortization expense amounts for natural gas, coal and power contracts, renewable operating projects and other intangible assets are immaterial for the years ended December 31, 2018, 2017 and 2016, and are expected to be immaterial for the next five years as of December 31, 2018.

12. INVESTMENTS IN UNCONSOLIDATED AFFILIATES

EQUITY METHOD INVESTMENTS

Investments in affiliates that are not controlled by Duke Energy, but over which it has significant influence, are accounted for using the equity method.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

The following table presents Duke Energy's investments in unconsolidated affiliates accounted for under the equity method, as well as the respective equity in earnings, by segment.

(in millions)	Years Ended December 31,					
	2018		2017		2016	
	Investments	Equity in earnings	Investments	Equity in earnings	Investments	Equity in earnings
Electric Utilities and Infrastructure	\$ 97	\$ 6	\$ 89	\$ 5	\$ 93	\$ 5
Gas Utilities and Infrastructure	1,003	27	763	62	566	19
Commercial Renewables	201	(1)	190	(5)	185	(82)
Other	108	51	133	57	81	43
Total	\$ 1,409	\$ 83	\$ 1,175	\$ 119	\$ 925	\$ (15)

During the years ended December 31, 2018, 2017 and 2016, Duke Energy received distributions from equity investments of \$108 million, \$13 million and \$31 million, respectively, which are included in Other assets within Cash Flows from Operating Activities on the Consolidated Statements of Cash Flows. During the years ended December 31, 2018, and 2017, Duke Energy received distributions from equity investments of \$137 million and \$281 million, respectively, which are included in Return of investment capital within Cash Flows from Investing Activities on the Consolidated Statements of Cash Flows.

During the years ended December 31, 2018, and 2017, and the two months ended December 31, 2016, and the year ended October 31, 2016, Piedmont received distributions from equity investments of \$1 million, \$4 million, \$1 million and \$26 million, respectively, which are included in Other assets within Cash Flows from Operating Activities and \$3 million, \$2 million, \$1 million and \$18 million, respectively, which are included within Cash Flows from Investing Activities on the Consolidated Statements of Cash Flows.

Significant investments in affiliates accounted for under the equity method are discussed below.

Electric Utilities and Infrastructure

Duke Energy owns a 50 percent interest in DATC and in Pioneer, which build, own and operate electric transmission facilities in North America.

Gas Utilities and Infrastructure

The table below outlines Duke Energy's ownership interests in natural gas pipeline companies and natural gas storage facilities.

Entity Name	Ownership Interest	Investment Amount (in millions)	
		December 31, 2018	December 31, 2017
Pipeline Investments			
Atlantic Coast Pipeline, LLC ^(a)	47%	\$ 797	\$ 397
Sabal Trail Transmission, LLC	7.5%	112 ^(d)	219
Constitution Pipeline, LLC ^(a)	24%	25	81
Cardinal Pipeline Company, LLC ^(b)	21.49%	10	11
Storage Facilities			
Pine Needle LNG Company, LLC ^(b)	45%	13	13
Hardy Storage Company, LLC ^(b)	50%	46	42
Total Investments ^(c)		\$ 1,003	\$ 763

(a) During the year ended December 31, 2017, Piedmont transferred its share of ownership interest in ACP and Constitution to a wholly owned subsidiary of Duke Energy at book value.

(b) Piedmont owns the Cardinal, Pine Needle and Hardy Storage investments.

(c) Duke Energy includes purchase accounting adjustments related to Piedmont.

(d) Sabal Trail returned capital of \$112 million during the year ended December 31, 2018.

In October 2017, Duke Energy entered into a guarantee agreement to support its share of the ACP revolving credit facility. See Note 7 for additional information. As a result of the financing, ACP returned capital of \$265 million to Duke Energy.

Piedmont sold its 15 percent membership interest in SouthStar on October 3, 2016, for \$160 million resulting in an after tax gain of \$81 million during the year ended October 31, 2016. Piedmont's Equity in Earnings in SouthStar was \$19 million for the year ended October 31, 2016.

During the fourth quarter of 2018, ACP received several adverse court rulings as described in Note 4. As a result, Duke Energy evaluated this investment for impairment and determined that fair value approximated carrying value and therefore no impairment was necessary.

For regulatory matters and other information on the ACP, Sabal Trail and Constitution investments, see Notes 4 and 17.

Commercial Renewables

Duke Energy has a 50 percent interest in DS Cornerstone, LLC, which owns wind farm projects in the U.S.

Impairment of Equity Method Investments

During the year ended December 31, 2018, Duke Energy recorded an OTTI of the Constitution investment of \$55 million within Equity in earnings of unconsolidated affiliates on Duke Energy's Consolidated Statements of Operations. The charge represents the excess carrying value over the estimated fair value of the project, which was based on a Level 3 Fair Value measurement that was determined from the income approach using discounted cash flows. The impairment was primarily due to the recent actions taken by the courts and regulators to uphold the NYSDEC's denial of the certification and uncertainty associated with the remaining legal and regulatory challenges. For additional information on the Constitution investment, see Note 4.

During the year ended December 31, 2016, Duke Energy recorded an OTTI of certain wind project investments. The \$71 million pretax impairment was recorded within Equity in earnings (losses) of unconsolidated affiliates on Duke Energy's Consolidated Statements of Operations. The other-than-temporary decline in value of these investments was primarily attributable to a sustained decline in market pricing where the wind investments are located, projected net losses for the projects and a reduction in the projected cash distribution to the class of investment owned by Duke Energy.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Other

Duke Energy owns a 17.5 percent indirect interest in NMC, which owns and operates a methanol and MTBE business in Jubail, Saudi Arabia. Duke

Energy's economic ownership interest decreased from 25 to 17.5 percent with the successful startup of NMC's polyacetal production facility in 2017. Duke Energy retains 25 percent of the board representation and voting rights of NMC.

13. RELATED PARTY TRANSACTIONS

The Subsidiary Registrants engage in related party transactions in accordance with the applicable state and federal commission regulations. Refer to the Consolidated Balance Sheets of the Subsidiary Registrants for balances due to or due from related parties. Material amounts related to transactions with related parties included in the Consolidated Statements of Operations and Comprehensive Income are presented in the following table.

(in millions)	Years Ended December 31,		
	2018	2017	2016
Duke Energy Carolinas			
Corporate governance and shared service expenses ^(a)	\$ 985	\$ 858	\$ 831
Indemnification coverages ^(b)	22	23	22
JDA revenue ^(c)	84	49	38
JDA expense ^(c)	207	145	156
Intercompany natural gas purchases ^(d)	15	9	2
Progress Energy			
Corporate governance and shared service expenses ^(a)	\$ 906	\$ 736	\$ 710
Indemnification coverages ^(b)	34	38	35
JDA revenue ^(c)	207	145	156
JDA expense ^(c)	84	49	38
Intercompany natural gas purchases ^(d)	78	77	19
Duke Energy Progress			
Corporate governance and shared service expenses ^(a)	\$ 577	\$ 438	\$ 397
Indemnification coverages ^(b)	13	15	14
JDA revenue ^(c)	207	145	156
JDA expense ^(c)	84	49	38
Intercompany natural gas purchases ^(d)	78	77	19
Duke Energy Florida			
Corporate governance and shared service expenses ^(a)	\$ 329	\$ 298	\$ 313
Indemnification coverages ^(b)	21	23	21
Duke Energy Ohio			
Corporate governance and shared service expenses ^(a)	\$ 374	\$ 363	\$ 356
Indemnification coverages ^(b)	5	5	5
Duke Energy Indiana			
Corporate governance and shared service expenses ^(a)	\$ 405	\$ 370	\$ 366
Indemnification coverages ^(b)	7	8	8
Piedmont			
Corporate governance and shared service expenses ^(a)	\$ 170	\$ 50	
Indemnification coverages ^(b)	2	2	
Intercompany natural gas sales ^(d)	93	86	
Natural gas storage and transportation costs ^(e)	25	25	

(a) The Subsidiary Registrants are charged their proportionate share of corporate governance and other shared services costs, primarily related to human resources, employee benefits, information technology, legal and accounting fees, as well as other third-party costs. These amounts are primarily recorded in Operation, maintenance and other on the Consolidated Statements of Operations and Comprehensive Income.

(b) The Subsidiary Registrants incur expenses related to certain indemnification coverages through Bison, Duke Energy's wholly owned captive insurance subsidiary. These expenses are recorded in Operation, maintenance and other on the Consolidated Statements of Operations and Comprehensive Income.

(c) Duke Energy Carolinas and Duke Energy Progress participate in a JDA, which allows the collective dispatch of power plants between the service territories to reduce customer rates. Revenues from the sale of power and expenses from the purchase of power pursuant to the JDA are recorded in Operating Revenues and Fuel used in electric generation and purchased power, respectively, on the Consolidated Statements of Operations and Comprehensive Income.

(d) Piedmont provides long-term natural gas delivery service to certain Duke Energy Carolinas and Duke Energy Progress natural gas-fired generation facilities. Piedmont records the sales in Operating Revenues, and Duke Energy Carolinas and Duke Energy Progress record the related purchases as a component of Fuel used in electric generation and purchased power on their respective Consolidated Statements of Operations and Comprehensive Income. These intercompany revenues and expenses are eliminated in consolidation. For the two months ended December 31, 2016, and for sales made subsequent to the acquisition for the year ended October 31, 2016, Piedmont recorded \$14 million and \$7 million, respectively, of natural gas sales with Duke Energy. For sales made prior to the acquisition for the year ended October 31, 2016, Piedmont recorded \$74 million of natural gas sales with Duke Energy.

(e) Piedmont has related party transactions as a customer of its equity method investments in Pine Needle, Hardy Storage, and Cardinal natural gas storage and transportation facilities. These expenses are included in Cost of natural gas on Piedmont's Consolidated Statements of Operations and Comprehensive Income. For the two months ended December 31, 2016, and for the year ended October 31, 2016, Piedmont recorded \$6 million and \$29 million, respectively, of natural gas storage and transportation costs.

In addition to the amounts presented above, the Subsidiary Registrants have other affiliate transactions, including rental of office space, participation in a money pool arrangement, other operational transactions and their proportionate share of certain charged expenses. See Note 6 for more information regarding money pool. These transactions of the Subsidiary Registrants are incurred in the ordinary course of business and are eliminated in consolidation.

As discussed in Note 17, certain trade receivables have been sold by Duke Energy Ohio and Duke Energy Indiana to CRC, an affiliate formed by a subsidiary of Duke Energy. The proceeds obtained from the sales of receivables are largely cash but do include a subordinated note from CRC for a portion of the purchase price.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Intercompany Income Taxes

Duke Energy and the Subsidiary Registrants file a consolidated federal income tax return and other state and jurisdictional returns. The Subsidiary Registrants have a tax sharing agreement with Duke Energy for the allocation of consolidated tax liabilities and benefits. Income taxes recorded represent amounts the Subsidiary Registrants would incur as separate C-Corporations. The following table includes the balance of intercompany income tax receivables and payables for the Subsidiary Registrants.

(in millions)	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
December 31, 2018							
Intercompany income tax receivable	\$ 52	\$ 47	\$ 29	\$ —	\$ —	\$ 8	\$ —
Intercompany income tax payable	—	—	—	16	3	—	45
December 31, 2017							
Intercompany income tax receivable	\$ —	\$ 168	\$ —	\$ 44	\$ 22	\$ —	\$ 7
Intercompany income tax payable	44	—	21	—	—	35	—

14. DERIVATIVES AND HEDGING

The Duke Energy Registrants use commodity and interest rate contracts to manage commodity price risk and interest rate risk. The primary use of commodity derivatives is to hedge the generation portfolio against changes in the prices of electricity and natural gas. Piedmont enters into natural gas supply contracts to provide diversification, reliability and natural gas cost benefits to its customers. Interest rate swaps are used to manage interest rate risk associated with borrowings.

All derivative instruments not identified as NPNS are recorded at fair value as assets or liabilities on the Consolidated Balance Sheets. Cash collateral related to derivative instruments executed under master netting arrangements is offset against the collateralized derivatives on the Consolidated Balance Sheets. The cash impacts of settled derivatives are recorded as operating activities on the Consolidated Statements of Cash Flows.

INTEREST RATE RISK

The Duke Energy Registrants are exposed to changes in interest rates as a result of their issuance or anticipated issuance of variable-rate and fixed-rate debt and commercial paper. Interest rate risk is managed by limiting variable-rate exposures to a percentage of total debt and by monitoring changes in interest rates. To manage risk associated with changes in interest rates, the Duke Energy Registrants may enter into interest rate swaps, U.S. Treasury lock agreements and other financial contracts. In anticipation of certain fixed-rate debt issuances, a series of forward-starting interest rate swaps or Treasury locks may be executed to lock in components of current market interest rates. These instruments are later terminated prior to or upon the issuance of the corresponding debt.

Cash Flow Hedges

For a derivative designated as hedging the exposure to variable cash flows of a future transaction, referred to as a cash flow hedge, the effective portion of the derivative's gain or loss is initially reported as a component

of other comprehensive income and subsequently reclassified into earnings once the future transaction impacts earnings. Amounts for interest rate contracts are reclassified to earnings as interest expense over the term of the related debt. Gains and losses reclassified out of AOCI for the years ended December 31, 2018, 2017 and 2016 were not material. Duke Energy's interest rate derivatives designated as hedges include interest rate swaps used to hedge existing debt within the Commercial Renewables business.

Undesignated Contracts

Undesignated contracts primarily include contracts not designated as a hedge because they are accounted for under regulatory accounting or contracts that do not qualify for hedge accounting.

Duke Energy's interest rate swaps for its regulated operations employ regulatory accounting. With regulatory accounting, the mark-to-market gains or losses on the swaps are deferred as regulatory liabilities or regulatory assets, respectively. Regulatory assets and liabilities are amortized consistent with the treatment of the related costs in the ratemaking process. The accrual of interest on the swaps is recorded as Interest Expense on the Duke Energy Registrant's Consolidated Statements of Operations and Comprehensive Income.

In August 2016, Duke Energy unwound \$1.4 billion of forward-starting interest rate swaps associated with the Piedmont acquisition financing. The swaps were considered undesignated as they did not qualify for hedge accounting. Losses on the swaps of \$190 million are included within Interest Expense on the Consolidated Statements of Operations for the year ended December 31, 2016. See Note 2 for additional information related to the Piedmont acquisition.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

The following tables show notional amounts of outstanding derivatives related to interest rate risk.

(in millions)	December 31, 2018					
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio
Cash flow hedges	\$ 923	\$ —	\$ —	\$ —	\$ —	\$ —
Undesignated contracts	1,721	300	1,200	650	550	27
Total notional amount ^(a)	\$ 2,644	\$ 300	\$ 1,200	\$ 650	\$ 550	\$ 27

(in millions)	December 31, 2017					
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio
Cash flow hedges ^(a)	\$ 660	\$ —	\$ —	\$ —	\$ —	\$ —
Undesignated contracts	927	400	500	250	250	27
Total notional amount	\$ 1,587	\$ 400	\$ 500	\$ 250	\$ 250	\$ 27

(a) Duke Energy includes amounts related to consolidated VIEs of \$422 million in cash flow hedges and \$194 million in undesignated contracts as of December 31, 2018, and \$660 million in cash flow hedges as of December 31, 2017.

COMMODITY PRICE RISK

The Duke Energy Registrants are exposed to the impact of changes in the prices of electricity purchased and sold in bulk power markets and coal and natural gas purchases, including Piedmont's natural gas supply contracts. Exposure to commodity price risk is influenced by a number of factors including the term of contracts, the liquidity of markets and delivery locations. For the Subsidiary Registrants, bulk power electricity and coal and natural gas

purchases flow through fuel adjustment clauses, formula based contracts or other cost sharing mechanisms. Differences between the costs included in rates and the incurred costs, including undesignated derivative contracts, are largely deferred as regulatory assets or regulatory liabilities. Piedmont policies allow for the use of financial instruments to hedge commodity price risks. The strategy and objective of these hedging programs are to use the financial instruments to reduce gas cost volatility for customers.

Volumes

The tables below include volumes of outstanding commodity derivatives. Amounts disclosed represent the absolute value of notional volumes of commodity contracts excluding NPNS. The Duke Energy Registrants have netted contractual amounts where offsetting purchase and sale contracts exist with identical delivery locations and times of delivery. Where all commodity positions are perfectly offset, no quantities are shown.

	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Electricity (gigawatt-hours)	15,286	—	—	—	—	1,786	13,500	—
Natural gas (millions of dekatherms)	739	121	169	166	3	—	1	448

	December 31, 2017						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Indiana	Piedmont
Electricity (gigawatt-hours)	34	—	—	—	—	34	—
Natural gas (millions of dekatherms)	770	105	183	133	50	2	480

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

LOCATION AND FAIR VALUE OF DERIVATIVE ASSETS AND LIABILITIES RECOGNIZED IN THE CONSOLIDATED BALANCE SHEETS

The following tables show the fair value and balance sheet location of derivative instruments. Although derivatives subject to master netting arrangements are netted on the Consolidated Balance Sheets, the fair values presented below are shown gross and cash collateral on the derivatives has not been netted against the fair values shown.

Derivative Assets (in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Commodity Contracts								
<i>Not Designated as Hedging Instruments</i>								
Current	\$ 35	\$ 2	\$ 2	\$ 2	\$ —	\$ 6	\$ 23	\$ 3
Noncurrent	4	1	2	2	—	—	—	—
Total Derivative Assets – Commodity Contracts	\$ 39	\$ 3	\$ 4	\$ 4	\$ —	\$ 6	\$ 23	\$ 3
Interest Rate Contracts								
<i>Designated as Hedging Instruments</i>								
Current	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Noncurrent	3	—	—	—	—	—	—	—
<i>Not Designated as Hedging Instruments</i>								
Current	2	—	—	—	—	—	—	—
Noncurrent	12	—	—	—	—	—	—	—
Total Derivative Assets – Interest Rate Contracts	\$ 18	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Total Derivative Assets	\$ 57	\$ 3	\$ 4	\$ 4	\$ —	\$ 6	\$ 23	\$ 3

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Combined Notes to Consolidated Financial Statements – (Continued)

Derivative Liabilities		December 31, 2018						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Commodity Contracts								
<i>Not Designated as Hedging Instruments</i>								
Current	\$ 33	\$ 14	\$ 10	\$ 5	\$ 6	\$ —	\$ —	\$ 8
Noncurrent	158	10	15	6	—	—	—	133
Total Derivative Liabilities – Commodity Contracts	\$ 191	\$ 24	\$ 25	\$ 11	\$ 6	\$ —	\$ —	\$ 141
Interest Rate Contracts								
<i>Designated as Hedging Instruments</i>								
Current	\$ 12	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Noncurrent	6	—	—	—	—	—	—	—
<i>Not Designated as Hedging Instruments</i>								
Current	23	9	13	11	2	1	—	—
Noncurrent	10	—	6	5	1	4	—	—
Total Derivative Liabilities – Interest Rate Contracts	\$ 51	\$ 9	\$ 19	\$ 16	\$ 3	\$ 5	\$ —	\$ —
Total Derivative Liabilities	\$ 242	\$ 33	\$ 44	\$ 27	\$ 9	\$ 5	\$ —	\$ 141

Derivative Assets		December 31, 2017						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Commodity Contracts								
<i>Not Designated as Hedging Instruments</i>								
Current	\$ 34	\$ 2	\$ 2	\$ 1	\$ 1	\$ 1	\$ 27	\$ 2
Noncurrent	1	—	1	1	—	—	—	—
Total Derivative Assets – Commodity Contracts	\$ 35	\$ 2	\$ 3	\$ 2	\$ 1	\$ 1	\$ 27	\$ 2
Interest Rate Contracts								
<i>Designated as Hedging Instruments</i>								
Current	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Noncurrent	15	—	—	—	—	—	—	—
Total Derivative Assets – Interest Rate Contracts	\$ 16	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Total Derivative Assets	\$ 51	\$ 2	\$ 3	\$ 2	\$ 1	\$ 1	\$ 27	\$ 2

Derivative Liabilities		December 31, 2017						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Commodity Contracts								
<i>Not Designated as Hedging Instruments</i>								
Current	\$ 36	\$ 6	\$ 18	\$ 8	\$ 10	\$ —	\$ —	\$ 11
Noncurrent	146	4	10	4	—	—	—	131
Total Derivative Liabilities – Commodity Contracts	\$ 182	\$ 10	\$ 28	\$ 12	\$ 10	\$ —	\$ —	\$ 142
Interest Rate Contracts								
<i>Designated as Hedging Instruments</i>								
Current	\$ 29	\$ 25	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Noncurrent	6	—	—	—	—	—	—	—
<i>Not Designated as Hedging Instruments</i>								
Current	1	—	1	—	—	1	—	—
Noncurrent	12	—	7	6	2	4	—	—
Total Derivative Liabilities – Interest Rate Contracts	\$ 48	\$ 25	\$ 8	\$ 6	\$ 2	\$ 5	\$ —	\$ —
Total Derivative Liabilities	\$ 230	\$ 35	\$ 36	\$ 18	\$ 12	\$ 5	\$ —	\$ 142

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Combined Notes to Consolidated Financial Statements – (Continued)

OFFSETTING ASSETS AND LIABILITIES

The following tables present the line items on the Consolidated Balance Sheets where derivatives are reported. Substantially all of Duke Energy's outstanding derivative contracts are subject to enforceable master netting arrangements. The gross amounts offset in the tables below show the effect of these netting arrangements on financial position and include collateral posted to offset the net position. The amounts shown are calculated by counterparty. Accounts receivable or accounts payable may also be available to offset exposures in the event of bankruptcy. These amounts are not included in the tables below.

Derivative Assets		December 31, 2018						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current								
Gross amounts recognized	\$ 38	\$ 2	\$ 2	\$ 2	\$ —	\$ 6	\$ 23	\$ 3
Gross amounts offset	(3)	(2)	(2)	(2)	—	—	—	—
Net amounts presented in Current Assets: Other	\$ 35	\$ —	\$ —	\$ —	\$ —	\$ 6	\$ 23	\$ 3
Noncurrent								
Gross amounts recognized	\$ 19	\$ 1	\$ 2	\$ 2	\$ —	\$ —	\$ —	\$ —
Gross amounts offset	(3)	(1)	(2)	(2)	—	—	—	—
Net amounts presented in Other Noncurrent Assets: Other	\$ 16	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

Derivative Liabilities		December 31, 2018						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current								
Gross amounts recognized	\$ 68	\$ 23	\$ 23	\$ 16	\$ 8	\$ 1	\$ —	\$ 8
Gross amounts offset	(4)	(2)	(2)	(2)	—	—	—	—
Net amounts presented in Current Liabilities: Other	\$ 64	\$ 21	\$ 21	\$ 14	\$ 8	\$ 1	\$ —	\$ 8
Noncurrent								
Gross amounts recognized	\$ 174	\$ 10	\$ 21	\$ 11	\$ 1	\$ 4	\$ —	\$ 133
Gross amounts offset	(3)	(1)	(2)	(2)	—	—	—	—
Net amounts presented in Other Noncurrent Liabilities: Other	\$ 171	\$ 9	\$ 19	\$ 9	\$ 1	\$ 4	\$ —	\$ 133

Derivative Assets		December 31, 2017						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current								
Gross amounts recognized	\$ 35	\$ 2	\$ 2	\$ 1	\$ 1	\$ 1	\$ 27	\$ 2
Gross amounts offset	—	—	—	—	—	—	—	—
Net amounts presented in Current Assets: Other	\$ 35	\$ 2	\$ 2	\$ 1	\$ 1	\$ 1	\$ 27	\$ 2
Noncurrent								
Gross amounts recognized	\$ 16	\$ —	\$ 1	\$ 1	\$ —	\$ —	\$ —	\$ —
Gross amounts offset	—	—	—	—	—	—	—	—
Net amounts presented in Other Noncurrent Assets: Other	\$ 16	\$ —	\$ 1	\$ 1	\$ —	\$ —	\$ —	\$ —

Derivative Liabilities		December 31, 2017						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current								
Gross amounts recognized	\$ 66	\$ 31	\$ 19	\$ 8	\$ 10	\$ 1	\$ —	\$ 11
Gross amounts offset	(3)	(2)	(2)	(2)	—	—	—	—
Net amounts presented in Current Liabilities: Other	\$ 63	\$ 29	\$ 17	\$ 6	\$ 10	\$ 1	\$ —	\$ 11
Noncurrent								
Gross amounts recognized	\$ 164	\$ 4	\$ 17	\$ 10	\$ 2	\$ 4	\$ —	\$ 131
Gross amounts offset	(1)	—	(1)	(1)	—	—	—	—
Net amounts presented in Other Noncurrent Liabilities: Other	\$ 163	\$ 4	\$ 16	\$ 9	\$ 2	\$ 4	\$ —	\$ 131

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

OBJECTIVE CREDIT CONTINGENT FEATURES

Certain derivative contracts contain objective credit contingent features. These features include the requirement to post cash collateral or letters of credit if specific events occur, such as a credit rating downgrade below investment grade. The following tables show information with respect to derivative contracts that are in a net liability position and contain objective credit-risk-related payment provisions.

(in millions)	December 31, 2018				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Aggregate fair value of derivatives in a net liability position	\$ 44	\$ 19	\$ 25	\$ 25	\$ —
Fair value of collateral already posted	—	—	—	—	—
Additional cash collateral or letters of credit in the event credit-risk-related contingent features were triggered	44	19	25	25	—

(in millions)	December 31, 2017				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Aggregate fair value of derivatives in a net liability position	\$ 59	\$ 35	\$ 25	\$ 15	\$ 10
Fair value of collateral already posted	—	—	—	—	—
Additional cash collateral or letters of credit in the event credit-risk-related contingent features were triggered	59	35	25	15	10

The Duke Energy Registrants have elected to offset cash collateral and fair values of derivatives. For amounts to be netted, the derivative and cash collateral must be executed with the same counterparty under the same master netting arrangement.

15. INVESTMENTS IN DEBT AND EQUITY SECURITIES

Duke Energy's investments in debt and equity securities are primarily comprised of investments held in (i) the NDTF at Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, (ii) the grantor trusts at Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana related to OPEB plans and (iii) Bison. The Duke Energy Registrants classify investments in debt securities as AFS and investments in equity securities as FV-NI.

For investments in debt securities classified as AFS, the unrealized gains and losses are included in other comprehensive income until realized, at which time, they are reported through net income. For investments in equity securities classified as FV-NI, both realized and unrealized gains and losses are reported through net income. Substantially all of Duke Energy's investments in debt and equity securities qualify for regulatory accounting, and accordingly, all associated realized and unrealized gains and losses on these investments are deferred as a regulatory asset or liability.

Duke Energy classifies the majority of investments in debt and equity securities as long term, unless otherwise noted.

Investment Trusts

The investments within the NDTF and the Investment Trusts are managed by independent investment managers with discretion to buy, sell and invest pursuant to the objectives set forth by the trust agreements. The Duke Energy Registrants have limited oversight of the day-to-day management of these investments. As a result, the ability to hold investments in unrealized loss positions is outside the control of the Duke Energy Registrants. Accordingly, all unrealized losses associated with debt securities within the Investment Trusts are considered OTTI and are recognized immediately and deferred to regulatory accounts where appropriate.

Other AFS Securities

Unrealized gains and losses on all other AFS securities are included in other comprehensive income until realized, unless it is determined the carrying value of an investment is other-than-temporarily impaired. The Duke Energy Registrants analyze all investment holdings each reporting period to determine whether a decline in fair value should be considered other-than-temporary. If an OTTI exists, the unrealized credit loss is included in earnings. There were no material credit losses as of December 31, 2018, and 2017.

Other Investments amounts are recorded in Other within Other Noncurrent Assets on the Consolidated Balance Sheets.

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

DUKE ENERGY

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2018			December 31, 2017		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 88	\$ —	\$ —	\$ 115
Equity securities	2,402	95	4,475	2,805	27	4,914
Corporate debt securities	4	13	566	17	2	570
Municipal bonds	1	4	353	4	3	344
U.S. government bonds	14	12	1,076	11	7	1,027
Other debt securities	—	2	148	—	1	118
Total NDTF Investments	\$ 2,421	\$ 126	\$ 6,706	\$ 2,837	\$ 40	\$ 7,088
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 22	\$ —	\$ —	\$ 15
Equity securities	36	1	99	59	—	123
Corporate debt securities	—	2	60	1	—	57
Municipal bonds	—	1	85	2	1	83
U.S. government bonds	1	—	45	—	—	41
Other debt securities	—	1	58	—	1	44
Total Other Investments	\$ 37	\$ 5	\$ 369	\$ 62	\$ 2	\$ 363
Total Investments	\$ 2,458	\$ 131	\$ 7,075	\$ 2,899	\$ 42	\$ 7,451

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2018
Due in one year or less	\$ 98
Due after one through five years	501
Due after five through 10 years	570
Due after 10 years	1,222
Total	\$ 2,391

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the year ended December 31, 2018, and from sales of AFS securities for the years ended December 31, 2017, and 2016, were as follows.

(in millions)	Year Ended December 31, 2018
FV-NI:	
Realized gains	\$ 168
Realized losses	126
AFS:	
Realized gains	22
Realized losses	51

(in millions)	Years Ended December 31,	
	2017	2016
Realized gains	\$ 202	\$ 246
Realized losses	160	187

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Combined Notes to Consolidated Financial Statements – (Continued)

DUKE ENERGY CAROLINAS

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2018			December 31, 2017		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 29	\$ —	\$ —	\$ 32
Equity securities	1,309	54	2,484	1,531	12	2,692
Corporate debt securities	2	9	341	9	2	359
Municipal bonds	—	1	81	—	1	60
U.S. government bonds	5	8	475	3	4	503
Other debt securities	—	2	143	—	1	112
Total NDTF Investments	\$ 1,316	\$ 74	\$ 3,553	\$ 1,543	\$ 20	\$ 3,758

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2018
Due in one year or less	\$ 6
Due after one through five years	142
Due after five through 10 years	303
Due after 10 years	589
Total	\$ 1,040

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the year ended December 31, 2018, and from sales of AFS securities for the years ended December 31, 2017, and 2016, were as follows.

(in millions)	Year Ended December 31,
	2018
FV-NI:	
Realized gains	\$ 89
Realized losses	73
AFS:	
Realized gains	19
Realized losses	35

(in millions)	Years Ended December 31,	
	2017	2016
Realized gains	\$ 135	\$ 157
Realized losses	103	121

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Combined Notes to Consolidated Financial Statements – (Continued)

PROGRESS ENERGY

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2018			December 31, 2017		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 59	\$ —	\$ —	\$ 83
Equity securities	1,093	41	1,991	1,274	15	2,222
Corporate debt securities	2	4	225	8	—	211
Municipal bonds	1	3	272	4	2	284
U.S. government bonds	9	4	601	8	3	524
Other debt securities	—	—	5	—	—	6
Total NDTF Investments	\$ 1,105	\$ 52	\$ 3,153	\$ 1,294	\$ 20	\$ 3,330
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 17	\$ —	\$ —	\$ 12
Municipal bonds	—	—	47	2	—	47
Total Other Investments	\$ —	\$ —	\$ 64	\$ 2	\$ —	\$ 59
Total Investments	\$ 1,105	\$ 52	\$ 3,217	\$ 1,296	\$ 20	\$ 3,389

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2018
Due in one year or less	\$ 87
Due after one through five years	306
Due after five through 10 years	216
Due after 10 years	541
Total	\$ 1,150

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the year ended December 31, 2018, and from sales of AFS securities for the years ended December 31, 2017, and 2016, were as follows.

(in millions)	Year Ended December 31, 2018
FV-NI:	
Realized gains	\$ 79
Realized losses	53
AFS:	
Realized gains	3
Realized losses	15

(in millions)	Years Ended December 31,	
	2017	2016
Realized gains	\$ 65	\$ 84
Realized losses	56	64

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

DUKE ENERGY PROGRESS

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2018			December 31, 2017		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 46	\$ —	\$ —	\$ 50
Equity securities	833	30	1,588	980	12	1,795
Corporate debt securities	2	3	171	6	—	149
Municipal bonds	1	3	271	4	2	283
U.S. government bonds	6	3	415	5	2	310
Other debt securities	—	—	3	—	—	4
Total NDTF Investments	\$ 842	\$ 39	\$ 2,494	\$ 995	\$ 16	\$ 2,591
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 6	\$ —	\$ —	\$ 1
Total Other Investments	\$ —	\$ —	\$ 6	\$ —	\$ —	\$ 1
Total Investments	\$ 842	\$ 39	\$ 2,500	\$ 995	\$ 16	\$ 2,592

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2018
Due in one year or less	\$ 49
Due after one through five years	231
Due after five through 10 years	161
Due after 10 years	419
Total	\$ 860

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the year ended December 31, 2018, and from sales of AFS securities for the years ended December 31, 2017, and 2016, were as follows.

(in millions)	Year Ended December 31, 2018
FV-NI:	
Realized gains	\$ 68
Realized losses	48
AFS:	
Realized gains	\$ 2
Realized losses	10

(in millions)	Years Ended December 31,	
	2017	2016
Realized gains	\$ 54	\$ 71
Realized losses	48	55

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

DUKE ENERGY FLORIDA

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2018			December 31, 2017		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 13	\$ —	\$ —	\$ 33
Equity securities	260	11	403	294	3	427
Corporate debt securities	—	1	54	2	—	62
Municipal bonds	—	—	1	—	—	1
U.S. government bonds	3	1	186	3	1	214
Other debt securities	—	—	2	—	—	2
Total NDTF Investments^(a)	\$ 263	\$ 13	\$ 659	\$ 299	\$ 4	\$ 739
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 1	\$ —	\$ —	\$ 1
Municipal bonds	—	—	47	2	—	47
Total Other Investments	\$ —	\$ —	\$ 48	\$ 2	\$ —	\$ 48
Total Investments	\$ 263	\$ 13	\$ 707	\$ 301	\$ 4	\$ 787

(a) During the year ended December 31, 2018, Duke Energy Florida continued to receive reimbursements from the NDTF for costs related to ongoing decommissioning activity of the Crystal River Unit 3 nuclear plant.

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2018
Due in one year or less	\$ 38
Due after one through five years	75
Due after five through 10 years	55
Due after 10 years	122
Total	\$ 290

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the year ended December 31, 2018, and from sales of AFS securities for the years ended December 31, 2017, and 2016, were as follows.

(in millions)	Year Ended December 31, 2018
FV-NI:	
Realized gains	\$ 11
Realized losses	5
AFS:	
Realized gains	1
Realized losses	5

(in millions)	Years Ended December 31,	
	2017	2016
Realized gains	\$ 11	\$ 13
Realized losses	8	9

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

DUKE ENERGY INDIANA

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are measured at FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2018			December 31, 2017		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
Investments						
Equity securities	\$ 29	\$ —	\$ 67	\$ 49	\$ —	\$ 97
Corporate debt securities	—	—	8	—	—	3
Municipal bonds	—	1	33	—	1	28
Total Investments	\$ 29	\$ 1	\$ 108	\$ 49	\$ 1	\$ 128

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2018
Due in one year or less	\$ 3
Due after one through five years	20
Due after five through 10 years	4
Due after 10 years	14
Total	\$41

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the year ended December 31, 2018, and from sales of AFS securities for the years ended December 31, 2017, and 2016, were insignificant.

16. FAIR VALUE MEASUREMENTS

Fair value is the exchange price to sell an asset or transfer a liability in an orderly transaction between market participants at the measurement date. The fair value definition focuses on an exit price versus the acquisition cost. Fair value measurements use market data or assumptions market participants would use in pricing the asset or liability, including assumptions about risk and the risks inherent in the inputs to the valuation technique. These inputs may be readily observable, corroborated by market data, or generally unobservable. Valuation techniques maximize the use of observable inputs and minimize use of unobservable inputs. A midmarket pricing convention (the midpoint price between bid and ask prices) is permitted for use as a practical expedient.

Fair value measurements are classified in three levels based on the fair value hierarchy as defined by GAAP. Certain investments are not categorized within the fair value hierarchy. These investments are measured at fair value using the NAV per share practical expedient. The NAV is derived based on the investment cost, less any impairment, plus or minus changes resulting from observable price changes for an identical or similar investment of the same issuer.

Fair value accounting guidance permits entities to elect to measure certain financial instruments that are not required to be accounted for at fair value, such as equity method investments or the company's own debt, at fair value. The Duke Energy Registrants have not elected to record any of these items at fair value.

Transfers between levels represent assets or liabilities that were previously (i) categorized at a higher level for which the inputs to the estimate became less observable or (ii) classified at a lower level for which the inputs became more observable during the period. The Duke Energy Registrant's policy is to recognize transfers between levels of the fair value hierarchy at the end of the period. There were no transfers between levels during the years ended December 31, 2018, 2017 and 2016. In addition, for Piedmont, there were no transfers between levels during the two months ended December 31, 2016, and the year ended October 31, 2016.

Valuation methods of the primary fair value measurements disclosed below are as follows.

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

Investments in equity securities

The majority of investments in equity securities are valued using Level 1 measurements. Investments in equity securities are typically valued at the closing price in the principal active market as of the last business day of the quarter. Principal active markets for equity prices include published exchanges such as the NYSE and the Nasdaq Stock Market. Foreign equity prices are translated from their trading currency using the currency exchange rate in effect at the close of the principal active market. There was no after-hours market activity that was required to be reflected in the reported fair value measurements.

Investments in debt securities

Most investments in debt securities are valued using Level 2 measurements because the valuations use interest rate curves and credit spreads applied to the terms of the debt instrument (maturity and coupon interest rate) and consider the counterparty credit rating. If the market for a particular fixed-income security is relatively inactive or illiquid, the measurement is Level 3.

Commodity derivatives

Commodity derivatives with clearinghouses are classified as Level 1. Other commodity derivatives, including Piedmont's natural gas supply contracts, are primarily valued using internally developed discounted cash flow models that incorporate forward price, adjustments for liquidity (bid-ask spread) and

credit or non-performance risk (after reflecting credit enhancements such as collateral), and are discounted to present value. Pricing inputs are derived from published exchange transaction prices and other observable data sources. In the absence of an active market, the last available price may be used. If forward price curves are not observable for the full term of the contract and the unobservable period had more than an insignificant impact on the valuation, the commodity derivative is classified as Level 3. In isolation, increases (decreases) in natural gas forward prices result in favorable (unfavorable) fair value adjustments for natural gas purchase contracts; and increases (decreases) in electricity forward prices result in unfavorable (favorable) fair value adjustments for electricity sales contracts. Duke Energy regularly evaluates and validates pricing inputs used to estimate the fair value of natural gas commodity contracts by a market participant price verification procedure. This procedure provides a comparison of internal forward commodity curves to market participant generated curves.

Interest rate derivatives

Most over-the-counter interest rate contract derivatives are valued using financial models that utilize observable inputs for similar instruments and are classified as Level 2. Inputs include forward interest rate curves, notional amounts, interest rates and credit quality of the counterparties.

Other fair value considerations

See Note 11 for a discussion of the valuation of goodwill and intangible assets.

DUKE ENERGY

The following tables provide recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets. Derivative amounts in the tables below for all Duke Energy Registrants exclude cash collateral, which is disclosed in Note 14. See Note 15 for additional information related to investments by major security type for the Duke Energy Registrants.

(in millions)	December 31, 2018				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized
NDTF equity securities	\$ 4,475	\$ 4,410	\$ —	\$ —	\$ 65
NDTF debt securities	2,231	576	1,655	—	—
Other equity securities	99	99	—	—	—
Other debt securities	270	67	203	—	—
Derivative assets	57	4	25	28	—
Total assets	7,132	5,156	1,883	28	65
Derivative liabilities	(242)	(11)	(90)	(141)	—
Net assets (liabilities)	\$ 6,890	\$ 5,145	\$ 1,793	\$ (113)	\$ 65

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	December 31, 2017				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized
NDTF equity securities	\$ 4,914	\$ 4,840	\$ —	\$ —	\$ 74
NDTF debt securities	2,174	635	1,539	—	—
Other equity securities	123	123	—	—	—
Other debt securities	241	57	184	—	—
Derivative assets	51	3	20	28	—
Total assets	7,503	5,658	1,743	28	74
Derivative liabilities	(230)	(2)	(86)	(142)	—
Net assets (liabilities)	\$ 7,273	\$ 5,656	\$ 1,657	\$ (114)	\$ 74

The following tables provide reconciliations of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements. Amounts included in earnings for derivatives are primarily included in Cost of natural gas on the Duke Energy Registrants' Consolidated Statements of Operations and Comprehensive Income. Amounts included in changes of net assets on the Duke Energy Registrants' Consolidated Balance Sheets are included in regulatory assets or liabilities. All derivative assets and liabilities are presented on a net basis.

(in millions)	December 31, 2018	December 31, 2017		
	Derivatives (net)	Investments	Derivatives (net)	Total
Balance at beginning of period	\$ (114)	\$ 5	\$ (166)	\$ (161)
Total pretax realized or unrealized gains included in comprehensive income	—	1	—	1
Purchases, sales, issuances and settlements:				
Purchases	57	—	55	55
Sales	—	(6)	—	(6)
Settlements	(57)	—	(47)	(47)
Total gains included on the Consolidated Balance Sheet	1	—	44	44
Balance at end of period	\$ (113)	\$ —	\$ (114)	\$ (114)

DUKE ENERGY CAROLINAS

The following tables provide recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2018			
	Total Fair Value	Level 1	Level 2	Not Categorized
NDTF equity securities	\$ 2,484	\$ 2,419	\$ —	\$ 65
NDTF debt securities	1,069	149	920	—
Derivative assets	3	—	3	—
Total assets	3,556	2,568	923	65
Derivative liabilities	(33)	—	(33)	—
Net assets	\$ 3,523	\$ 2,568	\$ 890	\$ 65

(in millions)	December 31, 2017			
	Total Fair Value	Level 1	Level 2	Not Categorized
NDTF equity securities	\$ 2,692	\$ 2,618	\$ —	\$ 74
NDTF debt securities	1,066	204	862	—
Derivative assets	2	—	2	—
Total assets	3,760	2,822	864	74
Derivative liabilities	(35)	(1)	(34)	—
Net assets	\$ 3,725	\$ 2,821	\$ 830	\$ 74

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

The following table provides reconciliations of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Investments
	Year Ended December 31,
	2017
Balance at beginning of period	\$ 3
Total pretax realized or unrealized gains included in comprehensive income	1
Purchases, sales, issuances and settlements:	
Sales	(4)
Balance at end of period	\$ —

PROGRESS ENERGY

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2018			December 31, 2017		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 2
NDTF equity securities	\$ 1,991	\$ 1,991	\$ —	\$ 2,222	\$ 2,222	\$ —
NDTF debt securities	1,162	427	735	1,108	431	677
Other debt securities	64	17	47	59	12	47
Derivative assets	4	—	4	3	1	2
Total assets	3,221	2,435	786	3,392	2,666	726
Derivative liabilities	(44)	—	(44)	(36)	(1)	(35)
Net assets	\$ 3,177	\$ 2,435	\$ 742	\$ 3,356	\$ 2,665	\$ 691

DUKE ENERGY PROGRESS

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2018			December 31, 2017		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 2
NDTF equity securities	\$ 1,588	\$ 1,588	\$ —	\$ 1,795	\$ 1,795	\$ —
NDTF debt securities	906	294	612	796	243	553
Other debt securities	6	6	—	1	1	—
Derivative assets	4	—	4	2	1	1
Total assets	2,504	1,888	616	2,594	2,040	554
Derivative liabilities	(27)	—	(27)	(18)	(1)	(17)
Net assets	\$ 2,477	\$ 1,888	\$ 589	\$ 2,576	\$ 2,039	\$ 537

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Combined Notes to Consolidated Financial Statements – (Continued)

DUKE ENERGY FLORIDA

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2018			December 31, 2017		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 2
NDTF equity securities	\$ 403	\$ 403	\$ —	\$ 427	\$ 427	\$ —
NDTF debt securities	256	133	123	312	188	124
Other debt securities	48	1	47	48	1	47
Derivative assets	—	—	—	1	—	1
Total assets	707	537	170	788	616	172
Derivative liabilities	(9)	—	(9)	(12)	—	(12)
Net assets	\$ 698	\$ 537	\$ 161	\$ 776	\$ 616	\$ 160

DUKE ENERGY OHIO

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2018			December 31, 2017		
	Total Fair Value	Level 2	Level 3	Total Fair Value	Level 2	Level 3
Derivative assets	\$ 6	\$ —	\$ 6	\$ 1	\$ —	\$ 1
Derivative liabilities	(5)	(5)	—	(5)	(5)	—
Net assets (liabilities)	\$ 1	\$ (5)	\$ 6	\$ (4)	\$ (5)	\$ 1

The following table provides a reconciliation of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Derivatives (net)	
	Years Ended December 31,	
	2018	2017
Balance at beginning of period	\$ 1	\$ 5
Purchases, sales, issuances and settlements:		
Purchases	7	3
Settlements	(4)	(4)
Total gains included on the Consolidated Balance Sheet	2	(3)
Balance at end of period	\$ 6	\$ 1

DUKE ENERGY INDIANA

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2018				December 31, 2017			
	Total Fair Value	Level 1	Level 2	Level 3	Total Fair Value	Level 1	Level 2	Level 3
Other equity securities	\$ 67	\$ 67	\$ —	\$ —	\$ 97	\$ 97	\$ —	\$ —
Other debt securities	41	—	41	—	31	—	31	—
Derivative assets	23	1	—	22	27	—	—	27
Total assets	\$ 131	\$ 68	\$ 41	\$ 22	\$ 155	\$ 97	\$ 31	\$ 27

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

The following table provides a reconciliation of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Derivatives (net)	
	Years Ended December 31,	
	2018	2017
Balance at beginning of period	\$ 27	\$ 16
Purchases, sales, issuances and settlements:		
Purchases	50	52
Settlements	(53)	(43)
Total (losses) gains included on the Consolidated Balance Sheet	(2)	2
Balance at end of period	\$ 22	\$ 27

PIEDMONT

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2018			December 31, 2017		
	Total Fair Value	Level 1	Level 3	Total Fair Value	Level 1	Level 3
Other debt securities	\$ —	\$ —	\$ —	\$ 1	\$ 1	\$ —
Derivative assets	3	3	—	2	2	—
Total assets	3	3	—	3	3	—
Derivative liabilities	(141)	—	(141)	(142)	—	(142)
Net (liabilities) assets	\$ (138)	\$ 3	\$ (141)	\$ (139)	\$ 3	\$ (142)

The following table provides a reconciliation of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Derivatives (net)	
	Years Ended December 31,	
	2018	2017
Balance at beginning of period	\$ (142)	\$ (187)
Total gains and settlements	1	45
Balance at end of period	\$ (141)	\$ (142)

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

QUANTITATIVE INFORMATION ABOUT UNOBSERVABLE INPUTS

The following tables include quantitative information about the Duke Energy Registrants' derivatives classified as Level 3.

December 31, 2018				
Investment Type	Fair Value (in millions)	Valuation Technique	Unobservable Input	Range
Duke Energy Ohio				
FTRs	\$ 6	RTO auction pricing	FTR price – per MWh	\$ 1.19 — \$ 4.59
Duke Energy Indiana				
FTRs	22	RTO auction pricing	FTR price – per MWh	(2.07) — 8.27
Piedmont				
Natural gas contracts	(141)	Discounted cash flow	Forward natural gas curves – price per MMBtu	1.87 — 2.95
Duke Energy				
Total Level 3 derivatives	\$ (113)			

December 31, 2017				
Investment Type	Fair Value (in millions)	Valuation Technique	Unobservable Input	Range
Duke Energy Ohio				
FTRs	\$ 1	RTO auction pricing	FTR price – per MWh	\$ 0.07 — \$ 1.41
Duke Energy Indiana				
FTRs	27	RTO auction pricing	FTR price – per MWh	(0.77) — 7.44
Piedmont				
Natural gas contracts	(142)	Discounted cash flow	Forward natural gas curves – price per MMBtu	2.10 — 2.88
Duke Energy				
Total Level 3 derivatives	\$ (114)			

OTHER FAIR VALUE DISCLOSURES

The fair value and book value of long-term debt, including current maturities, is summarized in the following table. Estimates determined are not necessarily indicative of amounts that could have been settled in current markets. Fair value of long-term debt uses Level 2 measurements.

(in millions)	December 31, 2018		December 31, 2017	
	Book Value	Fair Value	Book Value	Fair Value
Duke Energy ^(a)	\$ 54,529	\$ 54,534	\$ 52,279	\$ 55,331
Duke Energy Carolinas	10,939	11,471	10,103	11,372
Progress Energy	18,911	19,885	17,837	20,000
Duke Energy Progress	8,204	8,300	7,357	7,992
Duke Energy Florida	7,321	7,742	7,095	7,953
Duke Energy Ohio	2,165	2,239	2,067	2,249
Duke Energy Indiana	3,782	4,158	3,783	4,464
Piedmont	2,138	2,180	2,037	2,209

(a) Book value of long-term debt includes \$1.6 billion as of December 31, 2018, and \$1.7 billion as of December 31, 2017, of unamortized debt discount and premium, net in purchase accounting adjustments related to the mergers with Progress Energy and Piedmont that are excluded from fair value of long-term debt.

At both December 31, 2018, and December 31, 2017, fair value of cash and cash equivalents, accounts and notes receivable, accounts payable, notes payable and commercial paper, and nonrecourse notes payable of VIEs are not materially different from their carrying amounts because of the short-term nature of these instruments and/or because the stated rates approximate market rates.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

17. VARIABLE INTEREST ENTITIES

A VIE is an entity that is evaluated for consolidation using more than a simple analysis of voting control. The analysis to determine whether an entity is a VIE considers contracts with an entity, credit support for an entity, the adequacy of the equity investment of an entity and the relationship of voting power to the amount of equity invested in an entity. This analysis is performed either upon the creation of a legal entity or upon the occurrence of an event requiring reevaluation, such as a significant change in an entity's assets or activities. A qualitative analysis of control determines the party that consolidates a VIE. This assessment is based on (i) what party has the power to direct the activities of the VIE that most significantly impact its economic performance and (ii) what party has rights to receive benefits or is obligated to absorb losses that could potentially be significant to the VIE. The analysis of the party that consolidates a VIE is a continual reassessment.

CONSOLIDATED VIEs

The obligations of these VIEs discussed in the following paragraphs are nonrecourse to the Duke Energy Registrants. The registrants have no requirement to provide liquidity to, purchase assets of or guarantee performance of these VIEs unless noted in the following paragraphs.

No financial support was provided to any of the consolidated VIEs during the years ended December 31, 2018, 2017 and 2016, or is expected to be provided in the future, that was not previously contractually required.

Receivables Financing – DERF/DEPR/DEFR

DERF, DEPR and DEFR are bankruptcy remote, special purpose subsidiaries of Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, respectively. DERF, DEPR and DEFR are wholly owned limited liability companies with separate legal existence from their parent companies and their assets are not generally available to creditors of their parent companies. On a revolving basis, DERF, DEPR and DEFR buy certain accounts receivable arising from the sale of electricity and related services from their parent companies.

DERF, DEPR and DEFR borrow amounts under credit facilities to buy these receivables. Borrowing availability from the credit facilities is limited to the

amount of qualified receivables purchased. The sole source of funds to satisfy the related debt obligations is cash collections from the receivables. Amounts borrowed under the credit facilities are reflected on the Consolidated Balance Sheets as Long-Term Debt.

The most significant activity that impacts the economic performance of DERF, DEPR and DEFR are the decisions made to manage delinquent receivables. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are considered the primary beneficiaries and consolidate DERF, DEPR and DEFR, respectively, as they make those decisions.

Receivables Financing – CRC

CRC is a bankruptcy remote, special purpose entity indirectly owned by Duke Energy. On a revolving basis, CRC buys certain accounts receivable arising from the sale of electricity, natural gas and related services from Duke Energy Ohio and Duke Energy Indiana. CRC borrows amounts under a credit facility to buy the receivables from Duke Energy Ohio and Duke Energy Indiana. Borrowing availability from the credit facility is limited to the amount of qualified receivables sold to CRC. The sole source of funds to satisfy the related debt obligation is cash collections from the receivables. Amounts borrowed under the credit facility are reflected on Duke Energy's Consolidated Balance Sheets as Long-Term Debt.

The proceeds Duke Energy Ohio and Duke Energy Indiana receive from the sale of receivables to CRC are approximately 75 percent cash and 25 percent in the form of a subordinated note from CRC. The subordinated note is a retained interest in the receivables sold. Depending on collection experience, additional equity infusions to CRC may be required by Duke Energy to maintain a minimum equity balance of \$3 million.

CRC is considered a VIE because (i) equity capitalization is insufficient to support its operations, (ii) power to direct the activities that most significantly impact the economic performance of the entity are not performed by the equity holder and (iii) deficiencies in net worth of CRC are funded by Duke Energy. The most significant activities that impact the economic performance of CRC are decisions made to manage delinquent receivables. Duke Energy is considered the primary beneficiary and consolidates CRC as it makes these decisions. Neither Duke Energy Ohio nor Duke Energy Indiana consolidate CRC.

Receivables Financing – Credit Facilities

The following table outlines amounts and expiration dates of the credit facilities described above.

	Duke Energy			
	Duke Energy Carolinas		Duke Energy Progress	Duke Energy Florida
	CRC	DERF	DEPR	DEFR
Expiration date	December 2020	December 2020	February 2021	April 2021
Credit facility amount (in millions)	\$ 325	\$ 450	\$ 300	\$ 225
Amounts borrowed at December 31, 2018	325	450	300	225
Amounts borrowed at December 31, 2017	325	450	300	225
Restricted Receivables at December 31, 2018	564	699	547	357
Restricted Receivables at December 31, 2017	545	640	459	317

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Nuclear Asset-Recovery Bonds – DEFPF

DEFPF is a bankruptcy remote, wholly owned special purpose subsidiary of Duke Energy Florida. DEFPF was formed in 2016 for the sole purpose of issuing nuclear asset-recovery bonds to finance Duke Energy Florida's unrecovered regulatory asset related to Crystal River Unit 3.

In 2016, DEFPF issued senior secured bonds and used the proceeds to acquire nuclear asset-recovery property from Duke Energy Florida. The nuclear asset-recovery property acquired includes the right to impose, bill, collect and adjust a non-bypassable nuclear asset-recovery charge from all Duke Energy Florida retail customers until the bonds are paid in full and all financing costs have been recovered. The nuclear asset-recovery bonds are secured by the nuclear asset-recovery property and cash collections from the nuclear asset-recovery charges are the sole source of funds to satisfy the debt obligation. The bondholders have no recourse to Duke Energy Florida. For additional information see Notes 4 and 6.

DEFPF is considered a VIE primarily because the equity capitalization is insufficient to support its operations. Duke Energy Florida has the power to direct the significant activities of the VIE as described above and therefore Duke Energy Florida is considered the primary beneficiary and consolidates DEFPF.

The following table summarizes the impact of DEFPF on Duke Energy Florida's Consolidated Balance Sheets.

(in millions)	December 31, 2018	December 31, 2017
Receivables of VIEs	\$ 5	\$ 4
Regulatory Assets: Current	52	51
Current Assets: Other	39	40
Other Noncurrent Assets: Regulatory assets	1,041	1,091
Current Liabilities: Other	10	10
Current maturities of long-term debt	53	53
Long-Term Debt	1,111	1,164

Commercial Renewables

Certain of Duke Energy's renewable energy facilities are VIEs due to Duke Energy issuing guarantees for debt service and operations and maintenance reserves in support of debt financings. Assets are restricted and cannot be pledged as collateral or sold to third parties without prior approval of debt holders. Additionally, Duke Energy has VIEs associated with tax equity arrangements entered into with third-party investors in order to finance the cost of solar energy systems eligible for tax credits. The activities that most significantly impacted the economic performance of these renewable energy facilities were decisions associated with siting, negotiating PPAs and EPC agreements, and decisions associated with ongoing operations and maintenance-related activities. Duke Energy is considered the primary beneficiary and consolidates the entities as it is responsible for all of these decisions.

The table below presents material balances reported on Duke Energy's Consolidated Balance Sheets related to renewables VIEs.

(in millions)	December 31, 2018	December 31, 2017
Current Assets: Other	\$ 123	\$ 174
Property, plant and equipment, cost	4,007	3,923
Accumulated depreciation and amortization	(698)	(591)
Other Noncurrent Assets: Other	261	50
Current maturities of long-term debt	174	170
Long-Term Debt	1,587	1,700
Other Noncurrent Liabilities: Deferred income taxes	—	(148)
Other Noncurrent Liabilities: Asset Retirement Obligations	106	83
Other Noncurrent Liabilities: Other	212	241

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

NON-CONSOLIDATED VIEs

The following tables summarize the impact of non-consolidated VIEs on the Consolidated Balance Sheets.

(in millions)	December 31, 2018					
	Duke Energy				Duke Energy Ohio	Duke Energy Indiana
	Pipeline Investments	Commercial Renewables	Other VIEs	Total		
Receivables from affiliated companies	\$ —	\$ —	\$ —	\$ —	\$ 93	\$ 118
Investments in equity method unconsolidated affiliates	822	190	48	1,060	—	—
Total assets	\$ 822	\$ 190	\$ 48	\$ 1,060	\$ 93	\$ 118
Taxes accrued	(1)	—	—	(1)	—	—
Other current liabilities	—	—	4	4	—	—
Deferred income taxes	21	—	—	21	—	—
Other noncurrent liabilities	—	—	12	12	—	—
Total liabilities	\$ 20	\$ —	\$ 16	\$ 36	\$ —	\$ —
Net assets	\$ 802	\$ 190	\$ 32	\$ 1,024	\$ 93	\$ 118

(in millions)	December 31, 2017					
	Duke Energy				Duke Energy Ohio	Duke Energy Indiana
	Pipeline Investments	Commercial Renewables	Other VIEs	Total		
Receivables from affiliated companies	\$ —	\$ —	\$ —	\$ —	\$ 87	\$ 106
Investments in equity method unconsolidated affiliates	697	180	42	919	—	—
Other noncurrent assets	17	—	—	17	—	—
Total assets	\$ 714	\$ 180	\$ 42	\$ 936	\$ 87	\$ 106
Taxes accrued	(29)	—	—	(29)	—	—
Other current liabilities	—	—	4	4	—	—
Deferred income taxes	42	—	—	42	—	—
Other noncurrent liabilities	—	—	12	12	—	—
Total liabilities	\$ 13	\$ —	\$ 16	\$ 29	\$ —	\$ —
Net assets	\$ 701	\$ 180	\$ 26	\$ 907	\$ 87	\$ 106

The Duke Energy Registrants are not aware of any situations where the maximum exposure to loss significantly exceeds the carrying values shown above except for the power purchase agreement with OVEC, which is discussed below, and various guarantees, including Duke Energy's guarantee agreement to support its share of the ACP revolving credit facility. Duke Energy's maximum exposure to loss under the terms of the guarantee is \$677 million as of December 31, 2018. For more information on various guarantees, refer to Note 7.

Pipeline Investments

Duke Energy has investments in various joint ventures with pipeline projects currently under construction. These entities are considered VIEs due to having insufficient equity to finance their own activities without subordinated financial support. Duke Energy does not have the power to direct the activities that most significantly impact the economic performance, the obligation to absorb losses or the right to receive benefits of these VIEs and therefore does not consolidate these entities.

The table below presents Duke Energy's ownership interest and investment balance in these joint ventures.

Entity Name	Ownership Interest	Investment Amount (in millions)	
		December 31, 2018	December 31, 2017
ACP	47%	\$ 797	\$ 397
Sabal Trail ^(a)	7.5%	—	219
Constitution ^(b)	24%	25	81
Total		\$ 822	\$ 697

(a) At December 31, 2017, Sabal Trail was considered a VIE due to having insufficient equity to finance their own activities without subordinated financial support. However, Sabal Trail is now a fully operational, well capitalized entity. As a result, Sabal Trail has sufficient equity to finance its own activities, and therefore, is no longer considered a VIE. Duke Energy's investment in Sabal Trail was \$112 million at December 31, 2018.

(b) During the year ended December 31, 2018, Duke Energy recorded an OTTI of \$55 million related to Constitution within Equity in earnings of unconsolidated affiliates on Duke Energy's Consolidated Statements of Income. See Note 4 for additional information.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Commercial Renewables

Duke Energy has investments in various renewable energy project entities. Some of these entities are VIEs due to Duke Energy issuing guarantees for debt service and operations and maintenance reserves in support of debt financings. Duke Energy does not consolidate these VIEs because power to direct and control key activities is shared jointly by Duke Energy and other owners.

Pioneer

Duke Energy holds a 50 percent equity interest in Pioneer. Pioneer is considered a VIE due to having insufficient equity to finance their own activities without subordinated financial support. The activities that most significantly impact Pioneer's economic performance are decisions related to the development of new transmission facilities. The power to direct these activities is jointly and equally shared by Duke Energy and the other joint venture partner, American Electric Power; therefore, Duke Energy does not consolidate Pioneer.

OVEC

Duke Energy Ohio's 9 percent ownership interest in OVEC is considered a non-consolidated VIE due to having insufficient equity to finance its activities without subordinated financial support. The activities that most significantly impact OVEC's economic performance include fuel strategy and supply activities and decisions associated with ongoing operations and maintenance-related activities. Duke Energy Ohio does not have the unilateral power to direct these activities, and therefore, does not consolidate OVEC.

As a counterparty to an ICPA, Duke Energy Ohio has a contractual arrangement to receive entitlements to capacity and energy from OVEC's power plants through June 2040 commensurate with its power participation ratio, which is equivalent to Duke Energy Ohio's ownership interest. Costs, including fuel, operating expenses, fixed costs, debt amortization, and interest expense, are allocated to counterparties to the ICPA based on their power participation ratio. The value of the ICPA is subject to variability due to fluctuation in

power prices and changes in OVEC's cost of business. On March 31, 2018, FES, a subsidiary of FirstEnergy and an ICPA counterparty with a power participation ratio of 4.85 percent, filed for Chapter 11 bankruptcy, which could increase costs allocated to the counterparties. On July 31, 2018, the bankruptcy court rejected the FES ICPA, which means OVEC is an unsecured creditor in the FES bankruptcy proceeding. Duke Energy Ohio cannot predict the impact of the bankruptcy filing on its OVEC interests. In addition, certain proposed environmental rulemaking could result in future increased OVEC cost allocations. See Note 4 for additional information.

CRC

See discussion under Consolidated VIEs for additional information related to CRC.

Amounts included in Receivables from affiliated companies in the above table for Duke Energy Ohio and Duke Energy Indiana reflect their retained interest in receivables sold to CRC. These subordinated notes held by Duke Energy Ohio and Duke Energy Indiana are stated at fair value. Carrying values of retained interests are determined by allocating carrying value of the receivables between assets sold and interests retained based on relative fair value. The allocated bases of the subordinated notes are not materially different than their face value because (i) the receivables generally turnover in less than two months, (ii) credit losses are reasonably predictable due to the broad customer base and lack of significant concentration and (iii) the equity in CRC is subordinate to all retained interests and thus would absorb losses first. The hypothetical effect on fair value of the retained interests assuming both a 10 percent and a 20 percent unfavorable variation in credit losses or discount rates is not material due to the short turnover of receivables and historically low credit loss history. Interest accrues to Duke Energy Ohio and Duke Energy Indiana on the retained interests using the acceptable yield method. This method generally approximates the stated rate on the notes since the allocated basis and the face value are nearly equivalent. An impairment charge is recorded against the carrying value of both retained interests and purchased beneficial interest whenever it is determined that an OTTI has occurred.

Key assumptions used in estimating fair value are detailed in the following table.

	Duke Energy Ohio		Duke Energy Indiana	
	2018	2017	2018	2017
Anticipated credit loss ratio	0.5%	0.5%	0.3%	0.3%
Discount rate	3.0%	2.1%	3.0%	2.1%
Receivable turnover rate	13.5%	13.5%	11.0%	10.7%

The following table shows the gross and net receivables sold.

(in millions)	Duke Energy Ohio		Duke Energy Indiana	
	2018	2017	2018	2017
Receivables sold	\$ 269	\$ 273	\$ 336	\$ 312
Less: Retained interests	93	87	118	106
Net receivables sold	\$ 176	\$ 186	\$ 218	\$ 206

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

The following table shows sales and cash flows related to receivables sold.

(in millions)	Duke Energy Ohio			Duke Energy Indiana		
	Years Ended December 31,			Years Ended December 31,		
	2018	2017	2016	2018	2017	2016
Sales						
Receivables sold	\$1,987	\$1,879	\$1,926	\$2,842	\$2,711	\$2,635
Loss recognized on sale	13	10	9	16	12	11
Cash Flows						
Cash proceeds from receivables sold	1,967	1,865	1,882	2,815	2,694	2,583
Collection fees received	1	1	1	1	1	1
Return received on retained interests	6	3	2	9	7	5

Cash flows from the sales of receivables are reflected within Cash Flows From Operating Activities on Duke Energy Ohio's and Duke Energy Indiana's Consolidated Statements of Cash Flows.

Collection fees received in connection with servicing transferred accounts receivable are included in Operation, maintenance and other on Duke Energy Ohio's and Duke Energy Indiana's Consolidated Statements of Operations and Comprehensive Income. The loss recognized on sales of receivables is

calculated monthly by multiplying receivables sold during the month by the required discount. The required discount is derived monthly utilizing a three-year weighted average formula that considers charge-off history, late charge history and turnover history on the sold receivables, as well as a component for the time value of money. The discount rate, or component for the time value of money, is the prior month-end LIBOR plus a fixed rate of 1.00 percent.

18. REVENUE

As described in Note 1, Duke Energy adopted Revenue from Contracts with Customers effective January 1, 2018, using the modified retrospective method of adoption, which does not require restatement of prior year reported results. No cumulative effect adjustment was recorded as the vast majority of Duke Energy's revenues are at-will and without a defined contractual term. Additionally, comparative disclosures for 2018 operating results with the previous revenue recognition rules are not applicable as Duke Energy's revenue recognition has not materially changed as a result of the new standard.

Duke Energy recognizes revenue consistent with amounts billed under tariff offerings or at contractually agreed upon rates based on actual physical delivery of electric or natural gas service, including estimated volumes delivered when billings have not yet occurred. As such, the majority of Duke Energy's revenues have fixed pricing based on the contractual terms of the published tariffs, with variability in expected cash flows attributable to the customer's volumetric demand and ultimate quantities of energy or natural gas supplied and used during the billing period. The stand-alone selling price of related sales are designed to support recovery of prudently incurred costs and an appropriate return on invested assets and are primarily governed by published tariff rates or contractual agreements approved by relevant regulatory bodies. As described in Note 1, certain excise taxes and franchise fees levied by state or local governments are required to be paid even if not collected from the customer. These taxes are recognized on a gross basis as part of revenues. Duke Energy elects to account for all other taxes net of revenues.

Performance obligations are satisfied over time as energy or natural gas is delivered and consumed with billings generally occurring monthly and related payments due within 30 days, depending on regulatory requirements. In no event does the timing between payment and delivery of the goods and services exceed one year. Using this output method for revenue recognition provides a faithful depiction of the transfer of electric and natural gas service as customers obtain control of the commodity and benefit from its use at delivery. Additionally, Duke Energy has an enforceable right to consideration for energy or natural gas

delivered at any discrete point in time, and will recognize revenue at an amount that reflects the consideration to which Duke Energy is entitled for the energy or natural gas delivered.

As described above, the majority of Duke Energy's tariff revenues are at-will and, as such, related contracts with customers have an expected duration of one year or less and will not have future performance obligations for disclosure. Additionally, other long-term revenue streams, including wholesale contracts, generally provide services that are part of a single performance obligation, the delivery of electricity or natural gas. As such, other than material fixed consideration under long-term contracts, related disclosures for future performance obligations are also not applicable.

Duke Energy earns substantially all of its revenues through its reportable segments, Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables.

Electric Utilities and Infrastructure

Electric Utilities and Infrastructure earns the majority of its revenues through retail and wholesale electric service through the generation, transmission, distribution and sale of electricity. Duke Energy generally provides retail and wholesale electric service customers with their full electric load requirements or with supplemental load requirements when the customer has other sources of electricity.

Retail electric service is generally marketed throughout Duke Energy's electric service territory through standard service offers. The standard service offers are through tariffs determined by regulators in Duke Energy's regulated service territory. Each tariff, which is assigned to customers based on customer class, has multiple components such as an energy charge, a demand charge, a basic facilities charge and applicable riders. Duke Energy considers each of these components to be aggregated into a single performance obligation for providing electric service, or in the case of distribution only customers in

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Ohio, for delivering electricity. Electricity is considered a single performance obligation satisfied over time consistent with the series guidance and is provided and consumed over the billing period, generally one month. Retail electric service is typically provided to at-will customers who can cancel service at any time, without a substantive penalty. Additionally, Duke Energy adheres to applicable regulatory requirements in each jurisdiction to ensure the collectability of amounts billed and appropriate mitigating procedures are followed when necessary. As such, revenue from contracts with customers for such contracts is equivalent to the electricity supplied and billed in that period (including unbilled estimates).

Wholesale electric service is generally provided under long-term contracts using cost-based pricing. FERC regulates costs that may be recovered from customers and the amount of return companies are permitted to earn. Wholesale contracts include both energy and demand charges. For full requirements contracts, Duke Energy considers both charges as a single performance obligation for providing integrated electric service. For contracts where energy and demand charges are considered separate performance

obligations, energy and demand are each a distinct performance obligation under the series guidance and are satisfied as energy is delivered and stand-ready service is provided on a monthly basis. This service represents consumption over the billing period and revenue is recognized consistent with billings and unbilled estimates, which generally occur monthly. Contractual amounts owed are typically trued up annually based upon incurred costs in accordance with FERC published filings and the specific customer's actual peak demand. Estimates of variable consideration related to potential additional billings or refunds owed are updated quarterly.

The majority of wholesale revenues are full requirements contracts where the customers purchase the substantial majority of their energy needs and do not have a fixed quantity of contractually required energy or capacity. As such, related forecasted revenues are considered optional purchases. Supplemental requirements contracts that include contracted blocks of energy and capacity at contractually fixed prices have the following estimated remaining performance obligations:

(in millions)	Remaining Performance Obligations						Total
	2019	2020	2021	2022	2023	Thereafter	
Progress Energy	\$ 112	\$ 121	\$ 80	\$ 82	\$ 39	\$ 42	\$ 476
Duke Energy Progress	9	9	9	9	9	9	54
Duke Energy Florida	103	112	71	73	30	33	422
Duke Energy Indiana	9	10	5	—	—	—	24

Revenues for block sales are recognized monthly as energy is delivered and stand-ready service is provided, consistent with invoiced amounts and unbilled estimates.

Gas Utilities and Infrastructure

Gas Utilities and Infrastructure earns its revenue through retail and wholesale natural gas service through the transportation, distribution and sale of natural gas. Duke Energy generally provides retail and wholesale natural gas service customers with all natural gas load requirements. Additionally, while natural gas can be stored, substantially all natural gas provided by Duke Energy is consumed by customers simultaneously with receipt of delivery.

Retail natural gas service is marketed throughout Duke Energy's natural gas service territory using published tariff rates. The tariff rates are established by regulators in Duke Energy's service territories. Each tariff, which is assigned to customers based on customer class, have multiple components, such as a commodity charge, demand charge, customer or monthly charge and transportation costs. Duke Energy considers each of these components to be aggregated into a single performance obligation for providing natural gas service. For contracts where Duke Energy provides all of the customer's natural gas needs, the delivery of natural gas is considered a single performance

obligation satisfied over time, and revenue is recognized monthly based on billings and unbilled estimates as service is provided and the commodity is consumed over the billing period. Additionally, natural gas service is typically at-will and customers can cancel service at any time, without a substantive penalty. Duke Energy also adheres to applicable regulatory requirements to ensure the collectability of amounts billed and receivable and appropriate mitigating procedures are followed when necessary.

Certain long-term individually negotiated contracts exist to provide natural gas service. These contracts are regulated and approved by state commissions. The negotiated contracts have multiple components, including a natural gas and a demand charge, similar to retail natural gas contracts. Duke Energy considers each of these components to be a single performance obligation for providing natural gas service. This service represents consumption over the billing period, generally one month.

Fixed capacity payments under long-term contracts for the Gas Utilities and Infrastructure segment include minimum margin contracts and supply arrangements with municipalities and power generation facilities. Revenues for related sales are recognized monthly as natural gas is delivered and stand-ready service is provided, consistent with invoiced amounts and unbilled estimates. Estimated remaining performance obligations are as follows:

(in millions)	Remaining Performance Obligations						Total
	2019	2020	2021	2022	2023	Thereafter	
Piedmont	\$ 70	\$ 68	\$ 63	\$ 63	\$ 60	\$ 430	\$ 754

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Commercial Renewables

Commercial Renewables earns the majority of its revenues through long-term PPAs and generally sells all of its wind and solar facility output, electricity and RECs to customers. The majority of these PPAs have historically been accounted for as leases. For PPAs that are not accounted for as leases, the delivery of electricity and the delivery of RECs are considered separate performance obligations.

The delivery of electricity is a performance obligation satisfied over time and represents generation and consumption of the electricity over the billing period, generally one month. The delivery of RECs is a performance obligation satisfied at a point in time and represents delivery of each REC generated by the wind or solar facility. The majority of self-generated RECs are bundled with energy in Duke Energy's contracts and, as such, related revenues are recognized as energy is generated and delivered as that pattern is consistent with Duke Energy's performance. Commercial Renewables recognizes revenue based on the energy generated and billed for the period, generally one month, at contractual rates (including unbilled estimates) according to the invoice practical expedient. Amounts are typically due within 30 days of invoice.

Commercial Renewables also earns revenues from installation of distributed solar generation resources, which is primarily composed of EPC projects to deliver functioning solar power systems, generally completed within two to 12 months from commencement of construction. The installation of distributed solar generation resources is a performance obligation that is satisfied over time. Revenue from fixed-price EPC contracts is recognized using

the input method as work is performed based on the estimated ratio of incurred costs to estimated total costs.

Other

The remainder of Duke Energy's operations is presented as Other, which does not include material revenues from contracts with customers.

Disaggregated Revenues

For the Electric and Gas Utility and Infrastructure segments, revenue by customer class is most meaningful to Duke Energy as each respective customer class collectively represents unique customer expectations of service, generally has different energy and demand requirements, and operates under tailored, regulatory approved pricing structures. Additionally, each customer class is impacted differently by weather and a variety of economic factors including the level of population growth, economic investment, employment levels, and regulatory activities in each of Duke Energy's jurisdictions. As such, analyzing revenues disaggregated by customer class allows Duke Energy to understand the nature, amount, timing and uncertainty of revenue and cash flows arising from contracts with customers. For the Commercial Renewables segment, the majority of revenues from contracts with customers are from selling all of the unit-contingent output at contractually defined pricing under long-term PPAs with consistent expectations regarding the timing and certainty of cash flows. Disaggregated revenues are presented as follows:

(in millions) By market or type of customer	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
<i>Electric Utilities and Infrastructure</i>								
Residential	\$ 9,587	\$ 2,981	\$ 4,785	\$ 2,019	\$ 2,766	\$ 743	\$ 1,076	\$ —
General	6,127	2,119	2,809	1,280	1,529	422	778	—
Industrial	2,974	1,180	904	642	262	131	760	—
Wholesale	2,324	508	1,462	1,303	159	57	298	—
Other revenues	717	320	502	320	182	73	91	—
Total Electric Utilities and Infrastructure revenue from contracts with customers	\$ 21,729	\$ 7,108	\$ 10,462	\$ 5,564	\$ 4,898	\$ 1,426	\$ 3,003	\$ —
<i>Gas Utilities and Infrastructure</i>								
Residential	\$ 1,000	\$ —	\$ —	\$ —	\$ —	\$ 331	\$ —	\$ 669
Commercial	514	—	—	—	—	135	—	378
Industrial	147	—	—	—	—	18	—	128
Power Generation	—	—	—	—	—	—	—	54
Other revenues	139	—	—	—	—	19	—	120
Total Gas Utilities and Infrastructure revenue from contracts with customers	\$ 1,800	\$ —	\$ —	\$ —	\$ —	\$ 503	\$ —	\$ 1,349
<i>Commercial Renewables</i>								
Revenue from contracts with customers	\$ 209	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
<i>Other</i>								
Revenue from contracts with customers	\$ 19	\$ —	\$ —	\$ —	\$ —	\$ 1	\$ —	\$ —
Total revenue from contracts with customers	\$ 23,757	\$ 7,108	\$ 10,462	\$ 5,564	\$ 4,898	\$ 1,930	\$ 3,003	\$ 1,349
Other revenue sources ^(a)	\$ 764	\$ 192	\$ 266	\$ 135	\$ 123	\$ 27	\$ 56	\$ 26
Total revenues	\$ 24,521	\$ 7,300	\$ 10,728	\$ 5,699	\$ 5,021	\$ 1,957	\$ 3,059	\$ 1,375

(a) Other revenue sources include revenues from leases, derivatives and alternative revenue programs that are not considered revenues from contracts with customers. Alternative revenue programs in certain jurisdictions include regulatory mechanisms that periodically adjust for over or under collection of related revenues.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

IMPACT OF WEATHER AND THE TIMING OF BILLING PERIODS

Revenues and costs are influenced by seasonal weather patterns. Peak sales of electricity occur during the summer and winter months, which results in higher revenue and cash flows during these periods. By contrast, lower sales of electricity occur during the spring and fall, allowing for scheduled plant maintenance. Residential and general service customers are more impacted by weather than industrial customers. Estimated weather impacts are based on actual current period weather compared to normal weather conditions. Normal weather conditions are defined as the long-term average of actual historical weather conditions. Heating-degree days measure the variation in weather based on the extent the average daily temperature falls below a base temperature. Cooling-degree days measure the variation in weather based on the extent the average daily temperature rises above the base temperature. Each degree of temperature below the base temperature counts as one heating-degree day and each degree of temperature above the base temperature counts as one cooling-degree day.

The estimated impact of weather on earnings for Electric Utilities and Infrastructure is based on the temperature variances from a normal condition and customers' historic usage patterns. The methodology used to estimate the impact of weather does not consider all variables that may impact customer response to weather conditions, such as humidity in the summer or wind chill

in the winter. The precision of this estimate may also be impacted by applying long-term weather trends to shorter-term periods.

Gas Utilities and Infrastructure's costs and revenues are influenced by seasonal patterns due to peak natural gas sales occurring during the winter months as a result of space heating requirements. Residential customers are the most impacted by weather. There are certain regulatory mechanisms for the North Carolina, South Carolina, Tennessee and Ohio service territories that normalize the margins collected from certain customer classes during the winter. In North Carolina, rate design provides protection from both weather and other usage variations such as conservation, while South Carolina and Tennessee revenues are adjusted solely based on weather. Ohio primarily employs a fixed charge each month regardless of the season and usage.

UNBILLED REVENUE

Unbilled revenues are recognized by applying customer billing rates to the estimated volumes of energy or natural gas delivered but not yet billed. Unbilled revenues can vary significantly from period to period as a result of seasonality, weather, customer usage patterns, customer mix, average price in effect for customer classes, timing of rendering customer bills and meter reading schedules, and the impact of weather normalization or margin decoupling mechanisms.

Unbilled revenues are included within Receivables and Receivables of VIEs on the Consolidated Balance Sheets as shown in the following table.

(in millions)	December 31,	
	2018	2017
Duke Energy	\$ 896	\$ 944
Duke Energy Carolinas	313	342
Progress Energy	244	228
Duke Energy Progress	148	143
Duke Energy Florida	96	85
Duke Energy Ohio	2	4
Duke Energy Indiana	23	21
Piedmont	73	86

Additionally, Duke Energy Ohio and Duke Energy Indiana sell, on a revolving basis, nearly all of their retail accounts receivable, including receivables for unbilled revenues, to an affiliate, CRC and accounts for the transfers of receivables as sales. Accordingly, the receivables sold are not reflected on the Consolidated Balance Sheets of Duke Energy Ohio and Duke Energy Indiana. See Note 17 for further information. These receivables for unbilled revenues are shown in the table below.

(in millions)	December 31,	
	2018	2017
Duke Energy Ohio	\$ 86	\$ 104
Duke Energy Indiana	128	132

19. COMMON STOCK

Basic EPS is computed by dividing net income attributable to Duke Energy common stockholders, as adjusted for distributed and undistributed earnings allocated to participating securities, by the weighted average number of common shares outstanding during the period. Diluted EPS is computed by dividing net income attributable to Duke Energy common stockholders, as adjusted for distributed and undistributed earnings allocated to participating securities, by the diluted weighted average number of common shares

outstanding during the period. Diluted EPS reflects the potential dilution that could occur if securities or other agreements to issue common shares, such as stock options and equity forward sale agreements, were exercised or settled. Duke Energy's participating securities are restricted stock units that are entitled to dividends declared on Duke Energy common stock during the restricted stock unit's vesting periods.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

The following table presents Duke Energy's basic and diluted EPS calculations and reconciles the weighted average number of common stock outstanding to the diluted weighted average number of common stock outstanding.

(in millions, except per share amounts)	Years Ended December 31,		
	2018	2017	2016
Income from continuing operations attributable to Duke Energy common stockholders excluding impact of participating securities	\$2,642	\$3,059	\$2,567
Weighted average shares outstanding – basic	708	700	691
Weighted average shares outstanding – diluted	708	700	691
Earnings per share from continuing operations attributable to Duke Energy common stockholders			
Basic	\$ 3.73	\$ 4.37	\$ 3.71
Diluted	\$ 3.73	\$ 4.37	\$ 3.71
Potentially dilutive items excluded from the calculation ^(a)	2	2	2
Dividends declared per common share	\$ 3.64	\$ 3.49	\$ 3.36

(a) Performance stock awards were not included in the dilutive securities calculation because the performance measures related to the awards had not been met.

Equity Issuances

On February 20, 2018, Duke Energy filed a prospectus supplement and executed an EDA under which it may sell up to \$1 billion of its common stock through an ATM offering program, including an equity forward sales component. The EDA was entered into with Wells Fargo Securities, LLC, Citigroup Global Markets Inc., and J.P. Morgan Securities LLC (the Agents). Under the terms of the EDA, Duke Energy may issue and sell, through any of the Agents, shares of common stock during the period ending September 23, 2019. In June 2018, Duke Energy marketed two separate tranches, each for 1.3 million shares, of common stock. The first tranche was marketed with Wells Fargo Bank at an initial forward price of \$72.02 per share and the second tranche was marketed with Citibank at an initial forward price of \$78.71 per share through equity forward transactions under the ATM program. The Equity Forwards require Duke Energy to either physically settle the transactions by issuing 2.6 million shares in exchange for net proceeds at the then-applicable forward sale price specified by the agreements or net settle in whole or in part through the delivery or receipt of cash or shares. The settlement alternative was at Duke Energy's election. In December 2018, Duke Energy physically settled these equity forwards by delivering 2.6 million shares of common stock in exchange for net proceeds of approximately \$195 million.

Separately, in March 2018, Duke Energy marketed an equity offering of 21.3 million shares of common stock through an Underwriting Agreement with Credit Suisse Securities (USA) LLC, J.P. Morgan Securities LLC, Barclays Capital Inc. and Goldman Sachs & Co. LLC, as representatives of several underwriters, Credit Suisse Capital LLC and J.P. Morgan Securities LLC as Forward Sellers, and Credit Suisse Capital LLC and J.P. Morgan Chase Bank, National Association, acting as forward purchasers. In connection with the offering, Duke Energy entered into equity forward sale agreements with Credit Suisse Securities (USA) LLC as Agent for Credit Suisse Capital LLC and J.P. Morgan Chase Bank, National

Association. The sale price was \$75 per share less certain net adjustments for an initial forward price of \$74.07 per share. The Equity Forwards require Duke Energy to either physically settle the transactions by issuing 21.3 million shares in exchange for net proceeds at the then-applicable forward sale price specified by the agreements, or net settle in whole or in part through the delivery or receipt of cash or shares. The settlement alternative was at Duke Energy's election. In June 2018, Duke Energy physically settled one-half of the equity forwards by delivering approximately 10.6 million shares of common stock in exchange for net cash proceeds of approximately \$781 million. In December 2018, Duke Energy physically settled the remaining equity forward by delivering 10.6 million shares of common stock in exchange for net cash proceeds of approximately \$766 million.

For the year ended December 31, 2018, Duke Energy issued 2.2 million shares through its DRIP with an increase in additional paid-in capital of approximately \$174 million.

In March 2016, Duke Energy marketed an equity offering of 10.6 million shares of common stock. In lieu of issuing equity at the time of the offering, Duke Energy entered into Equity Forwards with Barclays. The Equity Forwards required Duke Energy to either physically settle the transactions by issuing 10.6 million shares, or net settle in whole or in part through the delivery or receipt of cash or shares. On October 5, 2016, following the close of the Piedmont acquisition, Duke Energy physically settled the Equity Forwards in full by delivering 10.6 million shares of common stock in exchange for net cash proceeds of approximately \$723 million. The net proceeds were used to finance a portion of the Piedmont acquisition. As a result of the acquisition, all of Piedmont's issued and outstanding stock became the issued and outstanding shares of a wholly owned subsidiary of Duke Energy. See Note 2 for additional information related to the Piedmont acquisition.

20. SEVERANCE

During 2018, Duke Energy reviewed its operations and identified opportunities for improvement to better serve its customers. This operational review included the company's workforce strategy and staffing levels to ensure the company is staffed with the right skillsets and number of teammates to execute the long-term vision for Duke Energy. As such, Duke Energy extended voluntary and involuntary severance benefits to certain employees in specific areas as a part of workforce planning and digital transformation efforts.

During 2016, Duke Energy and Piedmont announced severance plans covering certain eligible employees whose employment will be involuntarily terminated without cause as a result of Duke Energy's acquisition of Piedmont. These reductions continued into 2017 and were a part of the synergies expected to be realized with the acquisition. Refer to Note 2 for additional information on the Piedmont acquisition.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Severance benefit charges for initiatives and plans discussed above were accrued for a total of approximately 1,900 employees in 2018, 100 employees in 2017 and 600 employees in 2016. The following table presents the direct and allocated severance and related charges recorded by the Duke Energy Registrants. Amounts are included within Operation, maintenance and other on the Consolidated Statements of Operations.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont ^(a)
Year Ended December 31, 2018	\$ 187	\$ 102	\$ 69	\$ 52	\$ 17	\$ 6	\$ 7	\$ 2
Year Ended December 31, 2017	15	2	2	1	1	—	1	9
Year Ended December 31, 2016	118	39	40	23	17	3	7	

(a) Piedmont severance benefit charges were \$3 million for the two months ended December 31, 2016, and \$19 million for the year ended October 31, 2016.

The table below presents the severance liability for past and ongoing severance plans including the plans described above.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Balance at December 31, 2017	\$ 19	\$ 5	\$ 2	\$ 1	\$ —	\$ —	\$ —	\$ 5
Provision/Adjustments	200	98	50	40	10	2	2	—
Cash Reductions	(14)	(3)	(1)	—	(1)	—	—	(5)
Balance at December 31, 2018	\$ 205	\$ 100	\$ 51	\$ 41	\$ 9	\$ 2	\$ 2	\$ —

21. STOCK-BASED COMPENSATION

The 2015 Plan provides for the grant of stock-based compensation awards to employees and outside directors. The 2015 Plan reserves 10 million shares of common stock for issuance. Duke Energy has historically issued new shares upon exercising or vesting of share-based awards. However, Duke Energy may use a combination of new share issuances and open market repurchases for share-based awards that are exercised or vest in the future. Duke Energy has not determined with certainty the amount of such new share issuances or open market repurchases.

The following table summarizes the total expense recognized by the Duke Energy Registrants, net of tax, for stock-based compensation.

(in millions)	Years Ended December 31,		
	2018	2017	2016
Duke Energy	\$ 56	\$ 43	\$ 35
Duke Energy Carolinas	20	15	12
Progress Energy	21	16	12
Duke Energy Progress	13	10	7
Duke Energy Florida	8	6	5
Duke Energy Ohio	4	3	2
Duke Energy Indiana	5	4	3
Piedmont ^(a)	3	3	

(a) Piedmont's stock-based compensation costs were not material for the two months ended December 31, 2016. See discussion below for information on Piedmont's pre-merger stock-based compensation plans.

Duke Energy's pretax stock-based compensation costs, the tax benefit associated with stock-based compensation expense and stock-based compensation costs capitalized are included in the following table.

(in millions)	Years Ended December 31,		
	2018	2017	2016
Restricted stock unit awards	\$ 43	\$ 41	\$ 36
Performance awards	35	27	19
Pretax stock-based compensation cost	\$ 78	\$ 68	\$ 55
Stock-based compensation costs capitalized	5	4	2
Stock-based compensation expense	\$ 73	\$ 64	\$ 53
Tax benefit associated with stock-based compensation expense	\$ 17	\$ 25	\$ 20

RESTRICTED STOCK UNIT AWARDS

RSU awards generally vest over periods from immediate to three years. Fair value amounts are based on the market price of Duke Energy's common stock on the grant date. The following table includes information related to RSU awards.

	Years Ended December 31,		
	2018	2017	2016
Shares awarded (in thousands)	649	583	684
Fair value (in millions)	\$ 49	\$ 47	\$ 52

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
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Combined Notes to Consolidated Financial Statements – (Continued)

The following table summarizes information about RSU awards outstanding.

	Shares (in thousands)	Weighted Average Grant Date Fair Value (per share)
Outstanding at December 31, 2017	1,121	\$ 78
Granted	649	76
Vested	(545)	78
Forfeited	(72)	77
Outstanding at December 31, 2018	1,153	77
Restricted stock unit awards expected to vest	1,101	77

The total grant date fair value of shares vested during the years ended December 31, 2018, 2017 and 2016, was \$43 million, \$42 million and \$38 million, respectively. At December 31, 2018, Duke Energy had \$29 million of unrecognized compensation cost, which is expected to be recognized over a weighted average period of 23 months.

PERFORMANCE AWARDS

Stock-based performance awards generally vest after three years if performance targets are met. The actual number of shares issued will range from zero to 200 percent of target shares, depending on the level of performance achieved.

Performance awards contain market conditions based on relative TSR compared to a predefined peer group, as well as a performance condition based on Duke Energy's cumulative adjusted EPS. Performance awards granted in 2018 and 2017 also contain a performance condition based on the total incident case rate, one of our key employee safety metrics.

The market condition component of Duke Energy's performance awards is valued using a path-dependent model that incorporates expected relative TSR into the fair value determination of Duke Energy's performance-based share awards. The model uses three-year historical volatilities and correlations for all companies in the predefined peer group, including Duke Energy, to simulate Duke Energy's relative TSR as of the end of the performance period. For each simulation, Duke Energy's relative TSR associated with the simulated stock price at the end of the performance period plus expected dividends within the period results in a value per share for the award portfolio. The average of these simulations is the expected portfolio value per share. Actual life to date results of Duke Energy's relative TSR for each grant are incorporated within the model. For performance awards granted in 2018, the model used a risk-free interest rate of 2.4 percent, which reflects the yield on three-year Treasury bonds as of the grant date, and an expected volatility of 16.0 percent based on Duke Energy's historical volatility over three years using daily stock prices.

The following table includes information related to stock-based performance awards.

	Years Ended December 31,		
	2018	2017	2016
Shares granted assuming target performance (in thousands)	372	461	338
Fair value (in millions)	\$ 27	\$ 37	\$ 25

The following table summarizes information about stock-based performance awards outstanding and assumes payout at the target level.

	Shares (in thousands)	Weighted Average Grant Date Fair Value (per share)
Outstanding at December 31, 2017	1,065	\$ 79
Granted	372	73
Vested	(155)	81
Forfeited	(165)	80
Outstanding at December 31, 2018	1,117	77
Stock-based performance awards expected to vest	1,086	77

The total grant date fair value of shares vested during the years ended December 31, 2018, and 2016, was \$13 million and \$25 million, respectively. No performance awards vested during the year ended December 31, 2017. At December 31, 2018, Duke Energy had \$30 million of unrecognized compensation cost, which is expected to be recognized over a weighted average period of 21 months.

PIEDMONT

Prior to Duke Energy's acquisition of Piedmont, Piedmont had an incentive compensation plan that had a series of three-year performance and RSU awards for eligible officers and other participants. The Merger Agreement provided for the conversion of the 2014-2016 and 2015-2017 performance awards and the nonvested 2016 RSU award into the right to receive \$60 cash per share upon the close of the transaction. In December 2015, Piedmont's board of directors authorized the accelerated vesting, payment and taxation of the 2014-2016 and 2015-2017 performance awards, as well as the 2016 RSU award, at the election of the participant. Substantially all participants elected to accelerate the settlement of these awards. As a result of the settlement of these awards, 194 thousand shares of Piedmont shares were issued to participants, net of shares withheld for applicable federal and state income taxes, at a closing price of \$56.85 and a fair value of \$11 million. The 2016-2018 performance award cycle was approved subsequent to the Merger Agreement and was converted into a Duke Energy RSU award at the consummation of the acquisition.

Piedmont's stock-based compensation costs and the tax benefit associated with stock-based compensation expense are included in the following table.

(in millions)	Year Ended October 31, 2016
Pretax stock-based compensation cost	\$ 16
Tax benefit associated with stock-based compensation expense	6
Net of tax stock-based compensation cost	\$ 10

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

22. EMPLOYEE BENEFIT PLANS

DEFINED BENEFIT RETIREMENT PLANS

Duke Energy and certain subsidiaries maintain, and the Subsidiary Registrants participate in, qualified, non-contributory defined benefit retirement plans. The Duke Energy plans cover most employees using a cash balance formula. Under a cash balance formula, a plan participant accumulates a retirement benefit consisting of pay credits based upon a percentage of current eligible earnings, age or age and years of service and interest credits. Certain employees are eligible for benefits that use a final average earnings formula. Under these final average earnings formulas, a plan participant accumulates a retirement benefit equal to the sum of percentages of their (i) highest three-year, four-year, or five-year average earnings, (ii) highest three-year, four-year, or five-year average earnings in excess of covered compensation per year of participation (maximum of 35 years) or (iii) highest three-year average earnings times years of participation in excess of 35 years. Duke Energy also maintains, and the Subsidiary Registrants participate in, non-qualified, non-contributory defined benefit retirement plans that cover certain executives. The qualified and non-qualified, non-contributory defined benefit plans are closed to new participants.

Duke Energy approved plan amendments to restructure its qualified non-contributory defined benefit retirement plans, effective January 1, 2018. The restructuring involved (i) the spin-off of the majority of inactive participants from two plans into a separate inactive plan and (ii) the merger of the active participant portions of such plans, along with a pension plan acquired as part of the Piedmont transaction, into a single active plan. Benefits offered to the plan participants remain unchanged except that the Piedmont plan's final average earnings formula was frozen as of December 31, 2017, and affected participants were moved into the active plan's cash balance formula. Actuarial gains and losses associated with the Inactive Plan will be amortized over the

remaining life expectancy of the inactive participants. The longer amortization period lowered Duke Energy's 2018 pretax qualified pension plan expense by approximately \$33 million.

Duke Energy uses a December 31 measurement date for its defined benefit retirement plan assets and obligations.

Net periodic benefit costs disclosed in the tables below represent the cost of the respective benefit plan for the periods presented prior to capitalization of amounts reflected as Net property, plant and equipment, on the Consolidated Balance Sheets. Only the service cost component of net periodic benefit costs is eligible to be capitalized. The remaining non-capitalized portions of net periodic benefit costs are classified as either: (1) service cost, which is recorded in Operations, maintenance and other on the Consolidated Statements of Operations; or as (2) components of non-service cost, which is recorded in Other income and expenses, net, on the Consolidated Statements of Operations. Amounts presented in the tables below for the Subsidiary Registrants represent the amounts of pension and other post-retirement benefit cost allocated by Duke Energy for employees of the Subsidiary Registrants. Additionally, the Consolidated Statements of Operations of the Subsidiary Registrants also include allocated net periodic benefit costs for their proportionate share of pension and post-retirement benefit cost for employees of Duke Energy's shared services affiliate that provide support to the Subsidiary Registrants. However, in the tables below, these amounts are only presented within the Duke Energy column. These allocated amounts are included in the governance and shared service costs discussed in Note 13.

Duke Energy's policy is to fund amounts on an actuarial basis to provide assets sufficient to meet benefit payments to be paid to plan participants. Duke Energy does not anticipate making any contributions in 2019. The following table includes information related to the Duke Energy Registrants' contributions to its qualified defined benefit pension plans.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont ^(a)
Contributions Made:								
2018	\$ 141	\$ 46	\$ 45	\$ 25	\$ 20	\$ —	\$ 8	\$ —
2017	19	—	—	—	—	4	—	11
2016	155	43	43	24	20	5	9	

(a) Piedmont contributed \$10 million to its U.S. qualified defined benefit pension plan during the two months ended December 31, 2016, and \$10 million for the year ended October 31, 2016.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

QUALIFIED PENSION PLANS

Components of Net Periodic Pension Costs

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 182	\$ 58	\$ 51	\$ 29	\$ 22	\$ 5	\$ 11	\$ 7
Interest cost on projected benefit obligation	299	72	94	43	50	17	23	11
Expected return on plan assets	(559)	(147)	(178)	(85)	(91)	(28)	(42)	(22)
Amortization of actuarial loss	132	29	44	21	23	5	10	11
Amortization of prior service credit	(32)	(8)	(3)	(2)	(1)	—	(2)	(10)
Net periodic pension costs ^{(a)(b)}	\$ 22	\$ 4	\$ 8	\$ 6	\$ 3	\$ (1)	\$ —	\$ (3)

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 159	\$ 48	\$ 45	\$ 26	\$ 19	\$ 4	\$ 9	\$ 10
Interest cost on projected benefit obligation	328	79	100	47	53	18	26	14
Expected return on plan assets	(545)	(142)	(167)	(82)	(85)	(27)	(42)	(24)
Amortization of actuarial loss	146	31	52	23	29	5	12	11
Amortization of prior service credit	(24)	(8)	(3)	(2)	(1)	(1)	(2)	(2)
Settlement charge	12	—	—	—	—	—	—	12
Other	8	2	2	1	1	—	1	1
Net periodic pension costs ^{(a)(b)}	\$ 84	\$ 10	\$ 29	\$ 13	\$ 16	\$ (1)	\$ 4	\$ 22

(in millions)	Year Ended December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	
Service cost	\$ 147	\$ 48	\$ 42	\$ 24	\$ 19	\$ 4	\$ 9	
Interest cost on projected benefit obligation	335	86	106	49	55	19	28	
Expected return on plan assets	(519)	(142)	(168)	(82)	(84)	(27)	(42)	
Amortization of actuarial loss	134	33	51	23	29	4	11	
Amortization of prior service credit	(17)	(8)	(3)	(2)	(1)	—	(1)	
Settlement charge	3	—	—	—	—	—	—	
Other	8	2	3	1	1	1	1	
Net periodic pension costs ^{(a)(b)}	\$ 91	\$ 19	\$ 31	\$ 13	\$ 19	\$ 1	\$ 6	

(a) Duke Energy amounts exclude \$5 million, \$7 million and \$8 million for the years ended December 2018, 2017 and 2016, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.

(b) Duke Energy Ohio amounts exclude \$2 million, \$3 million and \$4 million for the years ended December 2018, 2017 and 2016, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.

(in millions)	Piedmont	
	Two Months Ended	Year Ended
	December 31, 2016	October 31, 2016
Service cost	\$ 2	\$ 11
Interest cost on projected benefit obligation	2	9
Expected return on plan assets	(4)	(24)
Amortization of actuarial loss	2	8
Amortization of prior service credit	(1)	(2)
Settlement charge	3	—
Net periodic pension costs	\$ 4	\$ 2

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

Amounts Recognized in Accumulated Other Comprehensive Income and Regulatory Assets

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net increase (decrease)	\$ 298	\$ 170	\$ 40	\$ 31	\$ 9	\$ 10	\$ 30	\$ 8
Accumulated other comprehensive loss (income)								
Deferred income tax expense	\$ (2)	—	1	—	—	—	—	—
Amortization of prior year service credit	1	—	—	—	—	—	—	—
Amortization of prior year actuarial losses	10	—	(4)	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ 9	\$ —	\$ (3)	\$ —	\$ —	\$ —	\$ —	\$ —

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net (decrease) increase	\$ (212)	\$ (70)	\$ (49)	\$ (37)	\$ (11)	\$ 9	\$ (19)	\$ (64)
Accumulated other comprehensive (income) loss								
Deferred income tax expense	\$ —	\$ —	\$ 3	\$ —	\$ —	\$ —	\$ —	\$ —
Prior year service credit arising during the year	1	—	—	—	—	—	—	—
Amortization of prior year actuarial losses	(7)	—	(7)	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ (6)	\$ —	\$ (4)	\$ —	\$ —	\$ —	\$ —	\$ —

Piedmont's regulatory asset net increase was \$34 million and \$35 million for the two months ended December 31, 2016, and for the year ended October 31, 2016, respectively.

Reconciliation of Funded Status to Net Amount Recognized

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Obligation at prior measurement date	\$ 8,448	\$ 2,029	\$ 2,637	\$ 1,211	\$ 1,410	\$ 479	\$ 669	\$ 313
Service cost	174	56	49	28	21	5	10	7
Interest cost	299	72	94	43	50	17	23	11
Actuarial gain	(485)	(44)	(204)	(87)	(114)	(29)	(29)	(18)
Transfers	—	—	—	—	—	—	—	(16)
Benefits paid	(567)	(159)	(143)	(70)	(72)	(37)	(55)	(33)
Obligation at measurement date	\$ 7,869	\$ 1,954	\$ 2,433	\$ 1,125	\$ 1,295	\$ 435	\$ 618	\$ 264
Accumulated Benefit Obligation at measurement date	\$ 7,818	\$ 1,954	\$ 2,404	\$ 1,125	\$ 1,265	\$ 425	\$ 614	\$ 264
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 9,003	\$ 2,372	\$ 2,814	\$ 1,366	\$ 1,429	\$ 458	\$ 684	\$ 368
Employer contributions	141	46	45	25	20	—	8	—
Actual return on plan assets	(344)	(91)	(110)	(53)	(55)	(16)	(26)	(14)
Benefits paid	(567)	(159)	(143)	(70)	(72)	(37)	(55)	(33)
Transfers	—	—	—	—	—	—	—	(16)
Plan assets at measurement date	\$ 8,233	\$ 2,168	\$ 2,606	\$ 1,268	\$ 1,322	\$ 405	\$ 611	\$ 305
Funded status of plan	\$ 364	\$ 214	\$ 173	\$ 143	\$ 27	\$ (30)	\$ (7)	\$ 41

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Obligation at prior measurement date	\$ 8,131	\$ 1,952	\$ 2,512	\$ 1,158	\$ 1,323	\$ 447	\$ 658	\$ 344
Service cost	159	48	45	26	19	4	9	10
Interest cost	328	79	100	47	53	18	26	14
Actuarial loss	455	68	158	57	99	35	26	38
Transfers	—	27	(32)	(2)	(15)	12	—	—
Plan amendments	(61)	—	—	—	—	—	—	(61)
Benefits paid	(537)	(145)	(146)	(75)	(69)	(37)	(50)	(5)
Benefits paid — settlements	(27)	—	—	—	—	—	—	(27)
Obligation at measurement date	\$ 8,448	\$ 2,029	\$ 2,637	\$ 1,211	\$ 1,410	\$ 479	\$ 669	\$ 313
Accumulated Benefit Obligation at measurement date	\$ 8,369	\$ 2,029	\$ 2,601	\$ 1,211	\$ 1,375	\$ 468	\$ 652	\$ 313
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 8,531	\$ 2,225	\$ 2,675	\$ 1,290	\$ 1,352	\$ 428	\$ 657	\$ 346
Employer contributions	19	—	—	—	—	4	—	11
Actual return on plan assets	1,017	265	317	153	161	51	77	43
Benefits paid	(537)	(145)	(146)	(75)	(69)	(37)	(50)	(5)
Benefits paid — settlements	(27)	—	—	—	—	—	—	(27)
Transfers	—	27	(32)	(2)	(15)	12	—	—
Plan assets at measurement date	\$ 9,003	\$ 2,372	\$ 2,814	\$ 1,366	\$ 1,429	\$ 458	\$ 684	\$ 368
Funded status of plan	\$ 555	\$ 343	\$ 177	\$ 155	\$ 19	\$ (21)	\$ 15	\$ 55

Amounts Recognized in the Consolidated Balance Sheets

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Prefunded pension ^(a)	\$ 433	\$ 214	\$ 242	\$ 143	\$ 96	\$ 24	\$ 39	\$ 41
Noncurrent pension liability ^(b)	\$ 69	\$ —	\$ 69	\$ —	\$ 69	\$ 54	\$ 46	\$ —
Net asset (liability) recognized	\$ 364	\$ 214	\$ 173	\$ 143	\$ 27	\$ (30)	\$ (7)	\$ 41
Regulatory assets	\$ 2,184	\$ 576	\$ 796	\$ 372	\$ 424	\$ 100	\$ 182	\$ 81
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (43)	\$ —	\$ (2)	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(4)	—	—	—	—	—	—	—
Net actuarial loss	126	—	5	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 79	\$ —	\$ 3	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension costs in the next year								
Unrecognized net actuarial loss	\$ 97	\$ 22	\$ 37	\$ 13	\$ 24	\$ 3	\$ 5	\$ 7
Unrecognized prior service credit	(32)	(8)	(3)	(2)	(1)	—	(2)	(9)

PART II

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DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Prefunded pension ^(a)	\$ 680	\$ 343	\$ 245	\$ 155	\$ 87	\$ 8	\$ 16	\$ 55
Noncurrent pension liability ^(b)	\$ 125	\$ —	\$ 68	\$ —	\$ 68	\$ 29	\$ 1	\$ —
Net asset recognized	\$ 555	\$ 343	\$ 177	\$ 155	\$ 19	\$ (21)	\$ 15	\$ 55
Regulatory assets	\$ 1,886	\$ 406	\$ 756	\$ 341	\$ 415	\$ 90	\$ 152	\$ 73
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (41)	\$ —	\$ (3)	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(5)	—	—	—	—	—	—	—
Net actuarial loss	116	—	9	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 70	\$ —	\$ 6	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension costs in the next year								
Unrecognized net actuarial loss	\$ 132	\$ 29	\$ 44	\$ 21	\$ 23	\$ 5	\$ 7	\$ 11
Unrecognized prior service credit	\$ (32)	\$ (8)	\$ (3)	\$ (2)	\$ (1)	\$ —	\$ (2)	\$ (9)

(a) Included in Other within Other Noncurrent Assets on the Consolidated Balance Sheets.

(b) Included in Accrued pension and other post-retirement benefit costs on the Consolidated Balance Sheets.

Information for Plans with Accumulated Benefit Obligation in Excess of Plan Assets

(in millions)	December 31, 2018				
	Duke Energy	Progress Energy	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Projected benefit obligation	\$ 679	\$ 679	\$ 679	\$ 123	\$ 203
Accumulated benefit obligation	651	651	651	115	199
Fair value of plan assets	610	610	610	69	159

(in millions)	December 31, 2017			
	Duke Energy	Progress Energy	Duke Energy Florida	Duke Energy Ohio
Projected benefit obligation	\$ 1,386	\$ 718	\$ 718	\$ 337
Accumulated benefit obligation	1,326	683	683	326
Fair value of plan assets	1,260	650	650	308

Assumptions Used for Pension Benefits Accounting

The discount rate used to determine the current year pension obligation and following year's pension expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

The average remaining service period for participants in active plans and life expectancy of participants in inactive plans is 13 years for Duke Energy and Duke Energy Progress, 12 years for Duke Energy Carolinas, Progress Energy, and Duke Energy Florida, 14 years for Duke Energy Ohio and Duke Energy Indiana, and 10 years for Piedmont.

PART II

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DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

The following tables present the assumptions or range of assumptions used for pension benefit accounting.

	December 31,		
	2018	2017	2016
Benefit Obligations			
Discount rate	4.30%	3.60%	4.10%
Salary increase	3.50% – 4.00%	3.50% – 4.00%	4.00% – 4.50%
Net Periodic Benefit Cost			
Discount rate	3.60%	4.10%	4.40%
Salary increase	3.50% – 4.00%	4.00% – 4.50%	4.00% – 4.40%
Expected long-term rate of return on plan assets	6.50%	6.50% – 6.75%	6.50% – 6.75%

	Piedmont	
	Two Months Ended	Year Ended
	December 31, 2016	October 31, 2016
Benefit Obligations		
Discount rate	4.10%	3.80%
Salary increase	4.50%	4.05%
Net Periodic Benefit Cost		
Discount rate	3.80%	4.34%
Salary increase	4.05%	4.07%
Expected long-term rate of return on plan assets	6.75%	7.25%

Expected Benefit Payments

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Years ending December 31,								
2019	\$ 662	\$ 210	\$ 179	\$ 105	\$ 73	\$ 33	\$ 47	\$ 20
2020	651	177	171	90	80	37	51	24
2021	663	182	177	95	81	37	51	23
2022	662	189	179	94	84	37	49	22
2023	655	185	181	95	85	35	47	22
2024-2028	2,993	794	902	451	447	158	217	96

NON-QUALIFIED PENSION PLANS

Components of Net Periodic Pension Costs

(in millions)	Year Ended December 31, 2018				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Service cost	\$ 2	\$ 1	\$ —	\$ —	\$ —
Interest cost on projected benefit obligation	12	—	4	1	2
Amortization of actuarial loss	8	—	2	1	1
Amortization of prior service credit	(2)	—	—	—	—
Net periodic pension costs	\$ 20	\$ 1	\$ 6	\$ 2	\$ 3

PART II

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DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Year Ended December 31, 2017				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Service cost	\$ 2	\$ 1	\$ —	\$ —	\$ —
Interest cost on projected benefit obligation	13	1	5	1	2
Amortization of actuarial loss	8	—	2	1	1
Amortization of prior service credit	(2)	—	—	—	—
Net periodic pension costs	\$ 21	\$ 2	\$ 7	\$ 2	\$ 3

(in millions)	Year Ended December 31, 2016				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Service cost	\$ 2	\$ —	\$ —	\$ —	\$ —
Interest cost on projected benefit obligation	14	1	5	1	2
Amortization of actuarial loss	8	1	1	1	1
Amortization of prior service credit	(1)	—	—	—	—
Net periodic pension costs	\$ 23	\$ 2	\$ 6	\$ 2	\$ 3

(in millions)	Piedmont	
	Year Ended	
	October 31, 2016	
Amortization of prior service cost	\$ —	
Settlement charge	1	
Net periodic pension costs	\$ 1	

Amounts Recognized in Accumulated Other Comprehensive Income and Regulatory Assets and Liabilities

(in millions)	Year Ended December 31, 2018				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Regulatory assets, net (decrease) increase	\$ (16)	\$ 1	\$ (6)	\$ (3)	\$ (3)
Accumulated other comprehensive (income) loss					
Deferred income tax benefit	\$ 1	\$ —	\$ 1	\$ —	\$ —
Actuarial gain arising during the year	(4)	—	(3)	—	—
Net amount recognized in accumulated other comprehensive loss (income)	\$ (3)	\$ —	\$ (2)	\$ —	\$ —

(in millions)	Year Ended December 31, 2017				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Regulatory assets, net increase (decrease)	\$ 5	\$ (1)	\$ 3	\$ 1	\$ 2
Accumulated other comprehensive (income) loss					
Prior service credit arising during the year	\$ (1)	\$ —	\$ —	\$ —	\$ —
Actuarial loss arising during the year	2	—	—	—	—
Net amount recognized in accumulated other comprehensive loss (income)	\$ 1	\$ —	\$ —	\$ —	\$ —

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Reconciliation of Funded Status to Net Amount Recognized

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Obligation at prior measurement date	\$ 331	\$ 14	\$ 116	\$ 35	\$ 47	\$ 4	\$ 3	\$ 4
Service cost	2	1	—	—	—	—	—	—
Interest cost	12	—	4	1	2	—	—	—
Actuarial gain	(17)	—	(6)	(2)	(3)	(1)	—	(1)
Benefits paid	(24)	(1)	(8)	(3)	(3)	—	—	—
Obligation at measurement date	\$ 304	\$ 14	\$ 106	\$ 31	\$ 43	\$ 3	\$ 3	\$ 3
Accumulated Benefit Obligation at measurement date	\$ 304	\$ 14	\$ 106	\$ 31	\$ 43	\$ 3	\$ 3	\$ 3
Change in Fair Value of Plan Assets								
Benefits paid	\$ (24)	\$ (1)	\$ (8)	\$ (3)	\$ (3)	\$ —	\$ —	\$ —
Employer contributions	24	1	8	3	3	—	—	—
Plan assets at measurement date	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Obligation at prior measurement date	\$ 332	\$ 14	\$ 114	\$ 33	\$ 46	\$ 4	\$ 3	\$ 4
Service cost	2	1	—	—	—	—	—	—
Interest cost	13	1	5	1	2	—	—	—
Actuarial loss (gain)	15	—	5	4	2	—	—	—
Benefits paid	(31)	(2)	(8)	(3)	(3)	—	—	—
Obligation at measurement date	\$ 331	\$ 14	\$ 116	\$ 35	\$ 47	\$ 4	\$ 3	\$ 4
Accumulated Benefit Obligation at measurement date	\$ 331	\$ 14	\$ 116	\$ 35	\$ 47	\$ 4	\$ 3	\$ 4
Change in Fair Value of Plan Assets								
Benefits paid	\$ (31)	\$ (2)	\$ (8)	\$ (3)	\$ (3)	\$ —	\$ —	\$ —
Employer contributions	31	2	8	3	3	—	—	—
Plan assets at measurement date	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Amounts Recognized in the Consolidated Balance Sheets

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current pension liability ^(a)	\$ 21	\$ 2	\$ 8	\$ 3	\$ 3	\$ —	\$ —	\$ —
Noncurrent pension liability ^(b)	283	12	98	28	40	3	3	3
Total accrued pension liability	\$ 304	\$ 14	\$ 106	\$ 31	\$ 43	\$ 3	\$ 3	\$ 3
Regulatory assets	\$ 62	\$ 5	\$ 15	\$ 5	\$ 10	\$ 1	\$ —	\$ 1
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (3)	\$ —	\$ (2)	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(1)	—	—	—	—	—	—	—
Net actuarial loss	8	—	6	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 4	\$ —	\$ 4	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year								
Unrecognized net actuarial loss	\$ 6	\$ —	\$ 2	\$ 1	\$ 1	\$ —	\$ —	\$ —
Unrecognized prior service credit	(2)	—	—	—	—	—	—	—

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current pension liability ^(a)	\$ 23	\$ 2	\$ 8	\$ 3	\$ 3	\$ —	\$ —	\$ —
Noncurrent pension liability ^(b)	308	12	108	32	44	4	3	4
Total accrued pension liability	\$ 331	\$ 14	\$ 116	\$ 35	\$ 47	\$ 4	\$ 3	\$ 4
Regulatory assets	\$ 78	\$ 4	\$ 21	\$ 8	\$ 13	\$ 1	\$ —	\$ 1
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (4)	\$ —	\$ (3)	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(1)	—	—	—	—	—	—	—
Net actuarial loss	12	—	9	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 7	\$ —	\$ 6	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year								
Unrecognized net actuarial loss	\$ 8	\$ —	\$ 2	\$ 1	\$ 1	\$ —	\$ —	\$ —
Unrecognized prior service credit	\$ (2)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

(a) Included in Other within Current Liabilities on the Consolidated Balance Sheets.

(b) Included in Accrued pension and other post-retirement benefit costs on the Consolidated Balance Sheets.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Information for Plans with Accumulated Benefit Obligation in Excess of Plan Assets

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Projected benefit obligation	\$ 304	\$ 14	\$ 106	\$ 31	\$ 43	\$ 3	\$ 3	\$ 3
Accumulated benefit obligation	304	14	106	31	43	3	3	3

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Projected benefit obligation	\$ 331	\$ 14	\$ 116	\$ 35	\$ 47	\$ 4	\$ 3	\$ 4
Accumulated benefit obligation	331	14	116	35	47	4	3	4

Assumptions Used for Pension Benefits Accounting

The discount rate used to determine the current year pension obligation and following year's pension expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

The average remaining service period of active covered employees is 10 years for Duke Energy, 13 years for Progress Energy, 11 years for Duke Energy Progress, 15 years for Duke Energy Florida, eight years for Duke Energy Carolinas, Duke Energy Ohio, Duke Energy Indiana and Piedmont. The following tables present the assumptions used for pension benefit accounting.

	December 31,		
	2018	2017	2016
Benefit Obligations			
Discount rate	4.30%	3.60%	4.10%
Salary increase	3.50% – 4.00%	3.50% – 4.00%	4.40%
Net Periodic Benefit Cost			
Discount rate	3.60%	4.10%	4.40%
Salary increase	3.50% – 4.00%	4.40%	4.40%

	Piedmont	
	Two Months Ended	Year Ended
	December 31, 2016	October 31, 2016
Benefit Obligations		
Discount rate	4.10%	3.80%
Net Periodic Benefit Cost		
Discount rate	3.80%	3.85%

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Expected Benefit Payments

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Years ending December 31,								
2019	\$ 22	\$ 2	\$ 8	\$ 3	\$ 3	\$ —	\$ —	\$ —
2020	21	1	8	2	3	—	—	—
2021	23	1	8	2	3	—	—	—
2022	25	1	8	2	3	—	—	—
2023	25	3	7	2	3	—	—	—
2024-2028	125	10	37	11	15	1	1	2

OTHER POST-RETIREMENT BENEFIT PLANS

Duke Energy provides, and the Subsidiary Registrants participate in, some health care and life insurance benefits for retired employees on a contributory and non-contributory basis. Employees are eligible for these benefits if they have met age and service requirements at retirement, as defined in the plans. The health care benefits include medical, dental and prescription drug coverage and are subject to certain limitations, such as deductibles and copayments.

Duke Energy did not make any pre-funding contributions to its other post-retirement benefit plans during the years ended December 31, 2018, 2017 or 2016.

Components of Net Periodic Other Post-Retirement Benefit Costs

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 6	\$ 1	\$ 1	\$ —	\$ 1	\$ 1	\$ 1	\$ 1
Interest cost on accumulated post-retirement benefit obligation	28	7	12	6	6	1	3	1
Expected return on plan assets	(13)	(8)	—	—	—	—	—	(2)
Amortization of actuarial loss	6	3	1	1	—	—	4	—
Amortization of prior service credit	(19)	(5)	(8)	(1)	(7)	(1)	(1)	(2)
Net periodic post-retirement benefit costs ^{(a)(b)}	\$ 8	\$ (2)	\$ 6	\$ 6	\$ —	\$ 1	\$ 7	\$ (2)

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 4	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 1
Interest cost on accumulated post-retirement benefit obligation	34	8	13	7	6	1	3	1
Expected return on plan assets	(14)	(8)	—	—	—	—	(1)	(2)
Amortization of actuarial loss (gain)	10	(2)	21	12	9	(2)	(1)	1
Amortization of prior service credit	(115)	(10)	(84)	(54)	(30)	—	(1)	—
Curtailment credit ^(c)	(30)	(4)	(16)	—	(16)	(2)	(2)	—
Net periodic post-retirement benefit costs ^{(a)(b)}	\$ (111)	\$ (15)	\$ (66)	\$ (35)	\$ (31)	\$ (3)	\$ (2)	\$ 1

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Year Ended December 31, 2016						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Service cost	\$ 3	\$ 1	\$ 1	\$ —	\$ 1	\$ —	\$ —
Interest cost on accumulated post-retirement benefit obligation	35	8	15	8	7	1	4
Expected return on plan assets	(12)	(8)	—	—	—	—	(1)
Amortization of actuarial loss (gain)	6	(3)	22	13	9	(2)	(1)
Amortization of prior service credit	(141)	(14)	(103)	(68)	(35)	—	(1)
Net periodic post-retirement benefit costs ^{(a)(b)}	\$ (109)	\$ (16)	\$ (65)	\$ (47)	\$ (18)	\$ (1)	\$ 1

- (a) Duke Energy amounts exclude \$7 million, \$7 million and \$8 million for the years ended December 2018, 2017 and 2016, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.
- (b) Duke Energy Ohio amounts exclude \$2 million, \$2 million and \$2 million for the years ended December 2018, 2017 and 2016, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.
- (c) Curtailment credit resulted from a reduction in average future service of plan participants due to a plan amendment.

(in millions)	Piedmont	
	Year Ended October 31, 2016	
Service cost	\$ 1	
Interest cost on projected benefit obligation	1	
Expected return on plan assets	(2)	
Amortization of actuarial loss	1	
Net periodic pension costs	\$ 1	

Amounts Recognized in Accumulated Other Comprehensive Income and Regulatory Assets and Liabilities

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net increase (decrease)	\$ 137	\$ —	\$ 133	\$ 84	\$ 49	\$ —	\$ (5)	\$ 4
Regulatory liabilities, net increase (decrease)	\$ 154	\$ (6)	\$ 149	\$ 93	\$ 56	\$ 2	\$ 3	\$ —
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (1)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amortization of prior year actuarial gain	1	—	—	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net increase (decrease)	\$ 71	\$ —	\$ 81	\$ 42	\$ 39	\$ —	\$ (5)	\$ (11)
Regulatory liabilities, net increase (decrease)	\$ (27)	\$ (2)	\$ —	\$ —	\$ —	\$ (3)	\$ (7)	\$ —
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (1)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amortization of prior year prior service credit	3	—	—	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ 2	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Piedmont's regulatory assets net decreased \$1 million for the two months ended December 31, 2016, and increased \$2 million for the year ended October 31, 2016.

Reconciliation of Funded Status to Accrued Other Post-Retirement Benefit Costs

	Year Ended December 31, 2018							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Accumulated post-retirement benefit obligation at prior measurement date	\$ 813	\$ 189	\$ 342	\$ 184	\$ 156	\$ 30	\$ 78	\$ 32
Service cost	6	1	1	—	1	1	1	1
Interest cost	28	7	12	6	6	1	3	1
Plan participants' contributions	18	3	6	4	3	1	2	—
Actuarial gains	(51)	(8)	(23)	(9)	(13)	(2)	(5)	(1)
Transfers	—	—	—	—	—	—	—	(1)
Benefits paid	(86)	(18)	(35)	(19)	(16)	(2)	(12)	(2)
Accumulated post-retirement benefit obligation at measurement date	\$ 728	\$ 174	\$ 303	\$ 166	\$ 137	\$ 29	\$ 67	\$ 30
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 225	\$ 133	\$ —	\$ —	\$ —	\$ 7	\$ 11	\$ 31
Actual return on plan assets	(8)	(5)	—	—	—	—	—	(1)
Benefits paid	(86)	(18)	(35)	(19)	(16)	(2)	(12)	(2)
Employer contributions	46	2	29	15	13	2	4	1
Plan participants' contributions	18	3	6	4	3	1	2	—
Plan assets at measurement date	\$ 195	\$ 115	\$ —	\$ —	\$ —	\$ 8	\$ 5	\$ 29
Funded status of plan	\$ (533)	\$ (59)	\$ (303)	\$ (166)	\$ (137)	\$ (21)	\$ (62)	\$ (1)

	Year Ended December 31, 2017							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Accumulated post-retirement benefit obligation at prior measurement date	\$ 868	\$ 201	\$ 357	\$ 191	\$ 164	\$ 32	\$ 83	\$ 39
Service cost	4	1	—	—	—	—	—	1
Interest cost	34	8	13	7	6	1	3	1
Plan participants' contributions	17	3	6	3	3	1	2	—
Actuarial losses (gains)	4	(3)	4	1	3	—	3	1
Transfers	—	2	(1)	—	(1)	1	—	—
Plan amendments	(28)	(5)	(3)	(1)	(2)	(2)	(2)	(9)
Benefits paid	(86)	(18)	(34)	(17)	(17)	(3)	(11)	(1)
Accumulated post-retirement benefit obligation at measurement date	\$ 813	\$ 189	\$ 342	\$ 184	\$ 156	\$ 30	\$ 78	\$ 32
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 244	\$ 137	\$ 1	\$ —	\$ —	\$ 7	\$ 22	\$ 29
Actual return on plan assets	25	15	1	—	—	2	1	3
Benefits paid	(86)	(18)	(34)	(17)	(17)	(3)	(11)	(1)
Employer contributions (reimbursements)	25	(4)	26	14	14	—	(3)	—
Plan participants' contributions	17	3	6	3	3	1	2	—
Plan assets at measurement date	\$ 225	\$ 133	\$ —	\$ —	\$ —	\$ 7	\$ 11	\$ 31
Funded status of plan	\$ (588)	\$ (56)	\$ (342)	\$ (184)	\$ (156)	\$ (23)	\$ (67)	\$ (1)

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Amounts Recognized in the Consolidated Balance Sheets

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current post-retirement liability ^(a)	\$ 8	\$ —	\$ 5	\$ 3	\$ 2	\$ 2	\$ —	\$ —
Noncurrent post-retirement liability ^(b)	525	59	298	163	135	19	62	1
Total accrued post-retirement liability	\$ 533	\$ 59	\$ 303	\$ 166	\$ 137	\$ 21	\$ 62	\$ 1
Regulatory assets	\$ 262	\$ —	\$ 262	\$ 164	\$ 98	\$ —	\$ 41	\$ —
Regulatory liabilities	\$ 301	\$ 38	\$ 149	\$ 93	\$ 56	\$ 18	\$ 67	\$ —
Accumulated other comprehensive (income) loss								
Deferred income tax expense	\$ 3	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(2)	—	—	—	—	—	—	—
Net actuarial gain	(9)	—	—	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive income	\$ (8)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year								
Unrecognized net actuarial loss	\$ 4	\$ 2	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —
Unrecognized prior service credit	(19)	(5)	(7)	(1)	(6)	(1)	(1)	(2)

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current post-retirement liability ^(a)	\$ 36	\$ —	\$ 29	\$ 15	\$ 14	\$ 2	\$ —	\$ —
Noncurrent post-retirement liability ^(b)	552	56	313	169	142	21	67	1
Total accrued post-retirement liability	\$ 588	\$ 56	\$ 342	\$ 184	\$ 156	\$ 23	\$ 67	\$ 1
Regulatory assets	\$ 125	\$ —	\$ 129	\$ 80	\$ 49	\$ —	\$ 46	\$ (4)
Regulatory liabilities	\$ 147	\$ 44	\$ —	\$ —	\$ —	\$ 16	\$ 64	\$ —
Accumulated other comprehensive (income) loss								
Deferred income tax expense	\$ 4	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(2)	—	—	—	—	—	—	—
Net actuarial gain	(10)	—	—	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive income	\$ (8)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year								
Unrecognized net actuarial loss (gain)	\$ 5	\$ 3	\$ 1	\$ —	\$ 1	\$ —	\$ —	\$ —
Unrecognized prior service credit	(19)	(5)	(7)	(1)	(6)	(1)	(1)	(2)

(a) Included in Other within Current Liabilities on the Consolidated Balance Sheets.

(b) Included in Accrued pension and other post-retirement benefit costs on the Consolidated Balance Sheets.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Assumptions Used for Other Post-Retirement Benefits Accounting

The discount rate used to determine the current year other post-retirement benefits obligation and following year's other post-retirement benefits expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected. The average remaining service period of active covered employees is nine years for Duke Energy, eight years for Duke Energy Carolinas, seven years for Duke Energy Florida, Duke Energy Ohio, and Piedmont, and six years for Progress Energy, Duke Energy Progress, and Duke Energy Indiana.

The following tables present the assumptions used for other post-retirement benefits accounting.

	December 31,		
	2018	2017	2016
Benefit Obligations			
Discount rate	4.30%	3.60%	4.10%
Net Periodic Benefit Cost			
Discount rate	3.60%	4.10%	4.40%
Expected long-term rate of return on plan assets	6.50%	6.50%	6.50%
Assumed tax rate	35%	35%	35%

	Piedmont	
	Two Months Ended	Year Ended
	December 31, 2016	October 31, 2016
Benefit Obligations		
Discount rate	4.10%	3.80%
Net Periodic Benefit Cost		
Discount rate	3.80%	4.38%
Expected long-term rate of return on plan assets	6.75%	7.25%

Assumed Health Care Cost Trend Rate

	December 31,	
	2018	2017
Health care cost trend rate assumed for next year	6.50%	7.00%
Rate to which the cost trend is assumed to decline (the ultimate trend rate)	4.75%	4.75%
Year that rate reaches ultimate trend	2024	2024

Sensitivity to Changes in Assumed Health Care Cost Trend Rates

	Year Ended December 31, 2018							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
1-Percentage Point Increase								
Effect on total service and interest costs	\$ 1	\$ —	\$ 1	\$ 1	\$ —	\$ —	\$ —	\$ —
Effect on post-retirement benefit obligation	22	5	9	5	4	1	2	1
1-Percentage Point Decrease								
Effect on total service and interest costs	(1)	—	(1)	(1)	—	—	—	—
Effect on post-retirement benefit obligation	(20)	(5)	(8)	(5)	(4)	(1)	(2)	(1)

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Expected Benefit Payments

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Years ending December 31,								
2019	\$ 81	\$19	\$ 30	\$16	\$14	\$ 3	\$ 9	\$ 2
2020	75	18	29	15	13	3	8	2
2021	71	18	28	15	13	3	7	2
2022	68	17	27	14	12	3	7	3
2023	64	16	26	14	12	3	6	3
2024–2028	266	64	109	59	50	11	26	12

PLAN ASSETS

Description and Allocations

Duke Energy Master Retirement Trust

Assets for both the qualified pension and other post-retirement benefits are maintained in the Duke Energy Master Retirement Trust. Qualified pension and other post-retirement assets related to Piedmont were transferred into the Duke Energy Master Retirement Trust during 2017. Approximately 98 percent of the Duke Energy Master Retirement Trust assets were allocated to qualified pension plans and approximately 2 percent were allocated to other post-retirement plans (comprised of 401(h) accounts), as of December 31, 2018, and 2017. The investment objective of the Duke Energy Master Retirement Trust is to invest in a diverse portfolio of assets that is expected to generate positive surplus return over time (i.e. asset growth greater than liability growth) subject to a prudent level of portfolio risk, for the purpose of enhancing the security of benefits for plan participants.

As of December 31, 2018, Duke Energy assumes pension and other post-retirement plan assets will generate a long-term rate of return of 6.85 percent. The expected long-term rate of return was developed using a weighted average calculation of expected returns based primarily on future expected returns across asset classes considering the use of active asset managers, where applicable. The asset allocation targets were set after considering the investment objective and the risk profile. Equity securities are held for their higher expected returns. Debt securities are primarily held to hedge the qualified pension plan liability. Real assets, return seeking fixed income, hedge funds and other global securities are held for diversification. Investments

within asset classes are diversified to achieve broad market participation and reduce the impact of individual managers or investments.

Effective January 1, 2019, the target asset allocation for the Duke Energy Retirement Master Trust is 58 percent liability hedging assets and 42 percent return-seeking assets. Duke Energy periodically reviews its asset allocation targets, and over time, as the funded status of the benefit plans increase, the level of asset risk relative to plan liabilities may be reduced to better manage Duke Energy's benefit plan liabilities and reduce funded status volatility.

The Duke Energy Master Retirement Trust is authorized to engage in the lending of certain plan assets. Securities lending is an investment management enhancement that utilizes certain existing securities of the Duke Energy Master Retirement Trust to earn additional income. Securities lending involves the loaning of securities to approved parties. In return for the loaned securities, the Duke Energy Master Retirement Trust receives collateral in the form of cash and securities as a safeguard against possible default of any borrower on the return of the loan under terms that permit the Duke Energy Master Retirement Trust to sell the securities. The Duke Energy Master Retirement Trust mitigates credit risk associated with securities lending arrangements by monitoring the fair value of the securities loaned, with additional collateral obtained or refunded as necessary. The fair value of securities on loan was approximately \$154 million and \$195 million at December 31, 2018, and 2017, respectively. Cash and securities obtained as collateral exceeded the fair value of the securities loaned at December 31, 2018, and 2017, respectively. Securities lending income earned by the Duke Energy Master Retirement Trust was immaterial for the years ended December 31, 2018, 2017 and 2016, respectively.

Qualified pension and other post-retirement benefits for the Subsidiary Registrants are derived from the Duke Energy Master Retirement Trust, as such, each are allocated their proportionate share of the assets discussed below.

The following table includes the target asset allocations by asset class at December 31, 2018, and the actual asset allocations for the Duke Energy Master Retirement Trust.

	Target Allocation	Actual Allocation at December 31,	
		2018	2017
U.S. equity securities	10%	11%	11%
Non-U.S. equity securities	8%	8%	8%
Global equity securities	10%	10%	10%
Global private equity securities	3%	2%	2%
Debt securities	63%	63%	63%
Hedge funds	2%	2%	2%
Real estate and cash	2%	2%	2%
Other global securities	2%	2%	2%
Total	100%	100%	100%

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Other post-retirement assets

Duke Energy's other post-retirement assets are comprised of VEBA trusts and 401(h) accounts held within the Duke Energy Master Retirement Trust. Duke Energy's investment objective is to achieve sufficient returns, subject to a prudent level of portfolio risk, for the purpose of promoting the security of plan benefits for participants.

The following table presents target and actual asset allocations for the VEBA trusts at December 31, 2018.

	Target Allocation	Actual Allocation at December 31,	
		2018	2017
U.S. equity securities	32%	43%	41%
Non-U.S. equity securities	6%	8%	8%
Real estate	2%	2%	2%
Debt securities	45%	40%	36%
Cash	15%	7%	13%
Total	100%	100%	100%

Fair Value Measurements

Duke Energy classifies recurring and non-recurring fair value measurements based on the fair value hierarchy as discussed in Note 16.

Valuation methods of the primary fair value measurements disclosed below are as follows:

Investments in equity securities

Investments in equity securities are typically valued at the closing price in the principal active market as of the last business day of the reporting period. Principal active markets for equity prices include published exchanges such as NASDAQ and NYSE. Foreign equity prices are translated from their trading currency using the currency exchange rate in effect at the close of the principal active market. Prices have not been adjusted to reflect after-hours market activity. The majority of investments in equity securities are valued using Level 1 measurements. When the price of an institutional commingled fund is unpublished, it is not categorized in the fair value hierarchy, even though the funds are readily available at the fair value.

Investments in corporate debt securities and U.S. government securities

Most debt investments are valued based on a calculation using interest rate curves and credit spreads applied to the terms of the debt instrument (maturity and coupon interest rate) and consider the counterparty credit rating. Most debt valuations are Level 2 measurements. If the market for a particular fixed-income security is relatively inactive or illiquid, the measurement is Level 3. U.S. Treasury debt is typically Level 2.

Investments in short-term investment funds

Investments in short-term investment funds are valued at the net asset value of units held at year end and are readily redeemable at the measurement date. Investments in short-term investment funds with published prices are valued as Level 1. Investments in short-term investment funds with unpublished prices are valued as Level 2.

Investments in real estate limited partnerships

Investments in real estate limited partnerships are valued by the trustee at each valuation date (monthly). As part of the trustee's valuation process, properties are externally appraised generally on an annual basis, conducted by reputable, independent appraisal firms, and signed by appraisers that are members of the Appraisal Institute, with the professional designation MAI. Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. There are three valuation techniques that can be used to value investments in real estate assets: the market, income or cost approach. The appropriateness of each valuation technique depends on the type of asset or business being valued. In addition, the trustee may cause additional appraisals to be performed as warranted by specific asset or market conditions. Property valuations and the salient valuation-sensitive assumptions of each direct investment property are reviewed by the trustee quarterly and values are adjusted if there has been a significant change in circumstances related to the investment property since the last valuation. Value adjustments for interim capital expenditures are only recognized to the extent that the valuation process acknowledges a corresponding increase in fair value. An independent firm is hired to review and approve quarterly direct real estate valuations. Key inputs and assumptions used to determine fair value includes among others, rental revenue and expense amounts and related revenue and expense growth rates, terminal capitalization rates and discount rates. Development investments are valued using cost incurred to date as a primary input until substantive progress is achieved in terms of mitigating construction and leasing risk at which point a discounted cash flow approach is more heavily weighted. Key inputs and assumptions in addition to those noted above used to determine the fair value of development investments include construction costs and the status of construction completion and leasing. Investments in real estate limited partnerships are valued at net asset value of units held at year end and are not readily redeemable at the measurement date. Investments in real estate limited partnerships are not categorized within the fair value hierarchy.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Master Retirement Trust

The following tables provide the fair value measurement amounts for the Duke Energy Master Retirement Trust qualified pension and other post-retirement assets.

(in millions)	December 31, 2018				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized ^(b)
Equity securities	\$2,373	\$1,751	\$ —	\$ —	\$ 622
Corporate debt securities	4,054	—	4,054	—	—
Short-term investment funds	363	279	84	—	—
Partnership interests	120	—	—	—	120
Hedge funds	226	—	—	—	226
Real estate limited partnerships	144	—	—	—	144
U.S. government securities	961	—	961	—	—
Guaranteed investment contracts	27	—	—	27	—
Governments bonds – foreign	30	—	30	—	—
Cash	28	28	—	—	—
Net pending transactions and other investments	(2)	(6)	4	—	—
Total assets ^(a)	\$8,324	\$2,052	\$5,133	\$ 27	\$ 1,112

(a) Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana, and Piedmont were allocated approximately 27 percent, 31 percent, 15 percent, 16 percent, 5 percent, 7 percent, and 4 percent, respectively, of the Duke Energy Master Retirement Trust at December 31, 2018. Accordingly, all amounts included in the table above are allocable to the Subsidiary Registrants using these percentages.

(b) Certain investments that are measured at fair value using the net asset value per share practical expedient have not been categorized in the fair value hierarchy.

(in millions)	December 31, 2017				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized ^(b)
Equity securities	\$2,823	\$1,976	\$ —	\$ —	\$ 847
Corporate debt securities	4,694	—	4,694	—	—
Short-term investment funds	246	192	54	—	—
Partnership interests	137	—	—	—	137
Hedge funds	226	—	—	—	226
Real estate limited partnerships	135	—	—	—	135
U.S. government securities	762	—	762	—	—
Guaranteed investment contracts	28	—	—	28	—
Governments bonds – foreign	38	—	38	—	—
Cash	6	6	—	—	—
Government and commercial mortgage backed securities	2	—	2	—	—
Net pending transactions and other investments	17	15	2	—	—
Total assets ^(a)	\$9,114	\$2,189	\$5,552	\$ 28	\$ 1,345

(a) Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana, and Piedmont were allocated approximately 27 percent, 30 percent, 15 percent, 15 percent, 5 percent, 8 percent, and 4 percent, respectively, of the Duke Energy Master Retirement Trust and Piedmont's Pension assets at December 31, 2017. Accordingly, all amounts included in the table above are allocable to the Subsidiary Registrants using these percentages.

(b) Certain investments that are measured at fair value using the net asset value per share practical expedient have not been categorized in the fair value hierarchy.

The following table provides a reconciliation of beginning and ending balances of Duke Energy Master Retirement Trust qualified pension and other post-retirement assets at fair value on a recurring basis where the determination of fair value includes significant unobservable inputs (Level 3).

(in millions)	2018	2017 ^(a)
Balance at January 1	\$ 28	\$ 38
Sales	(1)	(2)
Total gains and other, net	—	1
Transfer of Level 3 assets to other classifications	—	(9)
Balance at December 31	\$ 27	\$ 28

(a) Balance at January 1 includes \$9 million associated with Piedmont pension assets.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Other post-retirement assets

The following tables provide the fair value measurement amounts for VEBA trust assets.

(in millions)	December 31, 2018	
	Total Fair Value	Level 2
Cash and cash equivalents	\$ 3	\$ 3
Real estate	1	1
Equity securities	25	25
Debt securities	20	20
Total assets	\$ 49	\$ 49

(in millions)	December 31, 2017	
	Total Fair Value	Level 2
Cash and cash equivalents	\$ 8	\$ 8
Real estate	1	1
Equity securities	28	28
Debt securities	21	21
Total assets	\$ 58	\$ 58

EMPLOYEE SAVINGS PLANS

Retirement Savings Plan

Duke Energy or its affiliates sponsor, and the Subsidiary Registrants participate in, employee savings plans that cover substantially all U.S. employees. Most employees participate in a matching contribution formula where Duke Energy provides a matching contribution generally equal to 100 percent of employee before-tax and Roth 401(k) contributions of up to 6 percent of eligible pay per pay period. Dividends on Duke Energy shares held by the savings plans

are charged to retained earnings when declared and shares held in the plans are considered outstanding in the calculation of basic and diluted EPS.

For new and rehired employees who are not eligible to participate in Duke Energy's defined benefit plans, an additional employer contribution of 4 percent of eligible pay per pay period, which is subject to a three-year vesting schedule, is provided to the employee's savings plan account. Certain Piedmont employees whose participation in a prior Piedmont defined benefit plan (that was frozen as of December 31, 2017) are eligible for employer transition credit contributions of 3 to 5 percent of eligible pay per period, for each pay period during the three-year period ending December 31, 2020.

The following table includes pretax employer matching contributions made by Duke Energy and expensed by the Subsidiary Registrants.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont ^(a)
Years ended December 31,								
2018	\$213	\$68	\$58	\$40	\$19	\$4	\$10	\$12
2017	179	61	53	37	16	3	9	7
2016	169	57	50	35	15	3	8	

(a) Piedmont's pretax employer matching contributions were \$1 million and \$7 million during the two months ended December 31, 2016, and for the year ended October 31, 2016, respectively.

Money Purchase Pension Plan

Piedmont sponsored the MPP plan, which is a defined contribution pension plan that allowed employees to direct investments and assume risk of investment returns. Under the MPP plan, Piedmont annually deposited a percentage of each participant's pay into an account of the MPP plan. This contribution equaled 4 percent of the participant's eligible compensation plus an additional 4 percent of eligible compensation above the Social Security wage base up to the IRS compensation limit. The participant was vested in

MPP plan after three years of service. No contributions were made to the MPP plan during the two months ended December 31, 2016. Piedmont contributed \$2 million to the MPP plan during each of the years ended December 31, 2017, and October 31, 2016. Effective December 31, 2017, the MPP Plan was merged into the Retirement Savings Plan and the money purchase plan formula was discontinued. Beginning with the 2018 plan year, the former MPP Plan participants are eligible to receive the additional employer contribution under the Retirement Savings Plan, discussed above.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

23. INCOME TAXES

Tax Act

On December 22, 2017, President Trump signed the Tax Act into law. Among other provisions, the Tax Act lowered the corporate federal income tax rate from 35 to 21 percent, limits interest deductions outside of regulated utility operations, requires the normalization of excess deferred taxes associated with property under the average rate assumption method as a prerequisite to qualifying for accelerated depreciation and repealed the federal manufacturing deduction. The Tax Act also repealed the corporate AMT and stipulates a refund of 50 percent of remaining AMT credit carryforwards (to the extent the credits exceed regular tax for the year) for tax years 2018, 2019 and 2020 with all remaining AMT credits to be refunded in tax year 2021.

On December 22, 2017, the SEC staff issued SAB 118, Income Tax Accounting Implications of the Tax Cuts and Jobs Act, which provides guidance on accounting for the Tax Act's impact. SAB 118 provides a measurement period, which in no case should extend beyond one year from the Tax Act enactment date, during which a company acting in good faith may complete the accounting for the impacts of the Tax Act under ASC Topic 740. In accordance with SAB 118, a company must reflect the income tax effects of the Tax Act in the reporting period in which the accounting under ASC Topic 740 is complete. To the extent that a company's accounting for certain income tax effects of the Tax Act is incomplete, a company can determine a reasonable estimate for those effects and record a provisional estimate in the financial statements in the first reporting period in which a reasonable estimate can be determined.

As of December 31, 2018, the accounting for the effects of the Tax Act is complete. During the year ended December 31, 2018, Duke Energy recorded the following measurement period adjustments in accordance with SAB 118:

- Additional tax expense of \$23 million related to the completion of the analysis of Duke Energy's existing regulatory liability related to deferred taxes;
- A \$10 million tax benefit for the remeasurement of deferred tax assets and deferred tax liabilities primarily related to the guidance on bonus depreciation issued by the IRS in August 2018 affecting the computation of the Company's 2017 Federal income tax liability;

- Additional tax expense of \$7 million related to the portion of the deferred tax asset as of December 31, 2017, that represents nondeductible long-term incentives under the Tax Act's limitation on the deductibility of executive compensation; and
- During the fourth quarter of 2018, the Company released the \$76 million valuation allowance that it recorded in the first quarter of 2018 as a result of additional guidance published by the IRS that stated refundable AMT credits would not be subject to sequestration.
- The majority of Duke Energy's operations are regulated and it is expected that the Subsidiary Registrants will ultimately pass on the savings associated with the amount representing the remeasurement of deferred tax balances related to regulated operations to customers. For Duke Energy's regulated operations, where the reduction is expected to be returned to customers in future rates, the remeasurement has been deferred as a regulatory liability. During 2018, Duke Energy recorded an additional regulatory liability of \$83 million, representing the revaluation of those deferred tax balances. The Subsidiary Registrants continue to respond to requests from regulators in various jurisdictions to determine the timing and magnitude of savings they will pass on to customers.

In addition, during 2018 Duke Energy reclassified \$573 million of AMT credit carryforwards from noncurrent deferred tax liabilities to a current federal income tax receivable as the Company expects to receive this amount via a refund from the IRS in 2019, based on the expected filing of Duke Energy's 2018 income tax return in the second quarter of 2019.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Income Tax Expense

Components of Income Tax Expense

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current income taxes								
Federal	\$ (647)	\$ (8)	\$ (135)	\$ (71)	\$ (49)	\$ 20	\$ 29	\$ 67
State	(11)	6	(5)	(5)	(10)	(1)	3	1
Foreign	3	—	—	—	—	—	—	—
Total current income taxes	(655)	(2)	(140)	(76)	(59)	19	32	68
Deferred income taxes								
Federal	1,064	299	341	256	115	21	74	(36)
State	49	11	20	(17)	45	3	22	5
Total deferred income taxes ^{(a)(b)}	1,113	310	361	239	160	24	96	(31)
Investment tax credit amortization	(10)	(5)	(3)	(3)	—	—	—	—
Income tax expense from continuing operations	448	303	218	160	101	43	128	37
Tax benefit from discontinued operations	(26)	—	—	—	—	—	—	—
Total income tax expense included in Consolidated Statements of Operations	\$ 422	\$ 303	\$ 218	\$ 160	\$ 101	\$ 43	\$ 128	\$ 37

(a) Includes benefits of NOL carryforwards and tax credit carryforwards of \$22 million at Duke Energy Carolinas, \$293 million at Progress Energy, \$59 million at Duke Energy Progress, \$219 million at Duke Energy Florida, \$17 million at Duke Energy Ohio, \$21 million at Duke Energy Indiana and \$39 million at Piedmont. In addition, total deferred income taxes includes utilization of NOL carryforwards and tax credit carryforwards of \$18 million at Duke Energy.

(b) For the year ended December 31, 2018, the Company has revised the December 31, 2017, estimates of the income tax effects of the Tax Act, in accordance with SAB 118. See the Statutory Rate Reconciliation section below for additional information on the Tax Act's impact on income tax expense.

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current income taxes								
Federal	\$ (247)	\$ 221	\$ (436)	\$ (95)	\$ (188)	\$ (37)	\$ 128	\$ (90)
State	4	20	(5)	2	(11)	2	21	(3)
Foreign	3	—	—	—	—	—	—	—
Total current income taxes	(240)	241	(441)	(93)	(199)	(35)	149	(93)
Deferred income taxes								
Federal	1,344	381	664	378	194	99	138	147
State	102	35	44	10	51	(4)	14	8
Total deferred income taxes ^{(a)(b)}	1,446	416	708	388	245	95	152	155
Investment tax credit amortization	(10)	(5)	(3)	(3)	—	(1)	—	—
Income tax expense from continuing operations	1,196	652	264	292	46	59	301	62
Tax benefit from discontinued operations	(6)	—	—	—	—	—	—	—
Total income tax expense included in Consolidated Statements of Operations	\$ 1,190	\$ 652	\$ 264	\$ 292	\$ 46	\$ 59	\$ 301	\$ 62

(a) Includes utilization of NOL carryforwards and tax credit carryforwards of \$428 million at Duke Energy, \$74 million at Progress Energy, \$36 million at Duke Energy Florida, \$17 million at Duke Energy Ohio, \$42 million at Duke Energy Indiana and \$79 million at Piedmont. In addition, total deferred income taxes includes benefits of NOL carryforwards and tax credit carryforwards of \$10 million at Duke Energy Carolinas and \$1 million at Duke Energy Progress.

(b) As a result of the Tax Act, Duke Energy's deferred tax assets and liabilities were revalued as of December 31, 2017. See the Statutory Rate Reconciliation section below for additional information on the Tax Act's impact on income tax expense.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Year Ended December 31, 2016						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Current income taxes							
Federal	\$ —	\$ 139	\$ 15	\$ (59)	\$ 76	\$ (7)	\$ 7
State	(15)	25	(19)	(25)	22	(13)	6
Foreign	2	—	—	—	—	—	—
Total current income taxes	(13)	164	(4)	(84)	98	(20)	13
Deferred income taxes							
Federal	1,064	430	486	350	199	88	202
State	117	45	50	40	25	11	11
Total deferred income taxes ^(a)	1,181	475	536	390	224	99	213
Investment tax credit amortization	(12)	(5)	(5)	(5)	—	(1)	(1)
Income tax expense from continuing operations	1,156	634	527	301	322	78	225
Tax (benefit) expense from discontinued operations	(30)	—	1	—	—	(36)	—
Total income tax expense included in Consolidated Statements of Operations	\$ 1,126	\$ 634	\$ 528	\$ 301	\$ 322	\$ 42	\$ 225

(a) Includes benefits of NOL carryforwards and utilization of NOL and tax credit carryforwards of \$648 million at Duke Energy, \$4 million at Duke Energy Carolinas, \$190 million at Progress Energy, \$60 million at Duke Energy Progress, \$49 million at Duke Energy Florida, \$26 million at Duke Energy Ohio and \$58 million at Duke Energy Indiana.

(in millions)	Piedmont	
	Two Months Ended	Year Ended October 31,
	December 31, 2016	2016
Current income taxes		
Federal	\$ 4	\$ 27
State	(2)	12
Total current income taxes	2	39
Deferred income taxes		
Federal	24	79
State	6	6
Total deferred income taxes ^(a)	30	85
Total income tax expense from continuing operations included in Consolidated Statements of Operations	\$ 32	\$ 124

(a) Includes benefits of NOL and tax carryforwards of \$17 million and \$91 million for the two months ended December 31, 2016, and the year ended October 31, 2016, respectively.

Duke Energy Income from Continuing Operations before Income Taxes

(in millions)	Years Ended December 31,		
	2018	2017	2016
Domestic ^(a)	\$ 3,018	\$ 4,207	\$ 3,689
Foreign	55	59	45
Income from continuing operations before income taxes	\$ 3,073	\$ 4,266	\$ 3,734

(a) Includes a \$16 million expense in 2017 related to the Tax Act impact on equity earnings included within Equity in earnings (losses) of unconsolidated affiliates on the Consolidated Statement of Operations.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Taxes on Foreign Earnings

In February 2016, Duke Energy announced it had initiated a process to divest the International Disposal Group and, accordingly, no longer intended to indefinitely reinvest post-2014 undistributed foreign earnings. This change in the company's intent, combined with the extension of bonus depreciation by Congress in late 2015, allowed Duke Energy to more efficiently utilize foreign tax credits and reduce U.S. deferred tax liabilities associated with the historical unremitted foreign earnings by approximately \$95 million during the year ended December 31, 2016.

Due to the classification of the International Disposal Group as discontinued operations beginning in the fourth quarter of 2016, income tax amounts related to the International Disposal Group's foreign earnings are presented within Income (Loss) From Discontinued Operations, net of tax on the Consolidated Statements of Operations. In December 2016, Duke Energy closed on the sale of the International Disposal Group in two separate transactions to execute the divestiture. See Note 2 for additional information on the sale.

Statutory Rate Reconciliation

The following tables present a reconciliation of income tax expense at the U.S. federal statutory tax rate to the actual tax expense from continuing operations.

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Income tax expense, computed at the statutory rate of 21 percent	\$ 645	\$ 288	\$ 263	\$ 174	\$ 137	\$ 46	\$ 109	\$ 35
State income tax, net of federal income tax effect	30	14	13	(17)	28	2	20	4
Amortization of excess deferred income tax	(61)	—	(55)	(1)	(54)	(3)	(2)	—
AFUDC equity income	(42)	(15)	(22)	(12)	(10)	(2)	(2)	—
AFUDC equity depreciation	31	18	9	5	4	1	4	—
Renewable energy production tax credits	(129)	—	—	—	—	—	—	—
Other tax credits	(28)	(7)	(13)	(5)	(8)	(1)	(1)	(3)
Tax Act ^(a)	20	1	25	19	—	2	—	—
Other items, net	(18)	4	(2)	(3)	4	(2)	—	1
Income tax expense from continuing operations	\$ 448	\$ 303	\$ 218	\$ 160	\$ 101	\$ 43	\$ 128	\$ 37
Effective tax rate	14.6%	22.1%	17.4%	19.3%	15.4%	19.6%	24.6%	22.3%

(a) For the year ended December 31, 2018, the Company revised the December 31, 2017 estimates of the income tax effects of the Tax Act, in accordance with SAB 118. Amounts primarily include but are not limited to items that are excluded for ratemaking purposes related certain wholesale fixed rate contracts, remeasurement of nonregulated net deferred tax liabilities, Federal net operating losses, and valuation allowance on foreign tax credits.

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Income tax expense, computed at the statutory rate of 35 percent	\$ 1,493	\$ 653	\$ 536	\$ 353	\$ 265	\$ 88	\$ 229	\$ 70
State income tax, net of federal income tax effect	69	36	25	8	26	(1)	23	3
AFUDC equity income	(81)	(37)	(32)	(17)	(16)	(4)	(8)	—
Renewable energy production tax credits	(132)	—	—	—	—	—	—	—
Tax Act ^(a)	(112)	15	(246)	(40)	(226)	(23)	55	(12)
Tax true up	(52)	(24)	(19)	(13)	(7)	(5)	(6)	—
Other items, net	11	9	—	1	4	4	8	1
Income tax expense from continuing operations	\$ 1,196	\$ 652	\$ 264	\$ 292	\$ 46	\$ 59	\$ 301	\$ 62
Effective tax rate	28.0%	34.9%	17.2%	29.0%	6.1%	23.4%	46.0%	30.8%

(a) Amounts primarily include but are not limited to items that are excluded for ratemaking purposes related to abandoned or impaired assets, certain wholesale fixed rate contracts, remeasurement of nonregulated net deferred tax liabilities, Federal net operating losses, and valuation allowance on foreign tax credits.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Year Ended December 31, 2016						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Income tax expense, computed at the statutory rate of 35 percent	\$ 1,307	\$ 630	\$ 548	\$ 315	\$ 306	\$ 95	\$ 212
State income tax, net of federal income tax effect	64	46	20	10	30	(2)	11
AFUDC equity income	(70)	(36)	(26)	(17)	(9)	(2)	(6)
Renewable energy production tax credits	(97)	—	—	—	—	—	—
Audit adjustment	5	3	—	—	—	—	—
Tax true up	(14)	(14)	(11)	(3)	(9)	(16)	2
Other items, net	(39)	5	(4)	(4)	4	3	6
Income tax expense from continuing operations	\$ 1,156	\$ 634	\$ 527	\$ 301	\$ 322	\$ 78	\$ 225
Effective tax rate	31.0%	35.2%	33.7%	33.4%	36.9%	28.9%	37.1%

(in millions)	Piedmont	
	Two Months Ended December 31, 2016	Year Ended October 31, 2016
Income tax expense, computed at the statutory rate of 35 percent	\$ 30	\$ 111
State income tax, net of federal income tax effect	1	11
Other items, net	1	2
Income tax expense from continuing operations	\$ 32	\$ 124
Effective tax rate	37.2%	39.1%

Valuation allowances have been established for certain state NOL carryforwards and state income tax credits that reduce deferred tax assets to an amount that will be realized on a more-likely-than-not basis. The net change in the total valuation allowance is included in the State income tax, net of federal income tax effect in the above tables.

DEFERRED TAXES

Net Deferred Income Tax Liability Components

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Deferred credits and other liabilities	\$ 164	\$ 64	\$ 35	\$ 53	\$ —	\$ 17	\$ 6	\$ 17
Capital lease obligations	60	26	—	—	—	—	2	—
Pension, post-retirement and other employee benefits	347	24	110	47	58	16	24	(1)
Progress Energy merger purchase accounting adjustments ^(a)	483	—	—	—	—	—	—	—
Tax credits and NOL carryforwards	4,580	257	693	215	363	42	237	110
Regulatory liabilities and deferred credits	—	—	—	—	—	56	—	48
Investments and other assets	—	—	—	—	—	18	—	16
Other	25	6	5	5	—	1	(1)	—
Valuation allowance	(484)	—	—	—	—	—	—	—
Total deferred income tax assets	5,175	377	843	320	421	150	268	190
Investments and other assets	(1,317)	(795)	(430)	(272)	(163)	—	(5)	—
Accelerated depreciation rates	(10,124)	(3,207)	(3,369)	(1,735)	(1,670)	(967)	(1,081)	(733)
Regulatory assets and deferred debits, net	(1,540)	(64)	(985)	(432)	(574)	—	(191)	—
Other	—	—	—	—	—	—	—	(8)
Total deferred income tax liabilities	(12,981)	(4,066)	(4,784)	(2,439)	(2,407)	(967)	(1,277)	(741)
Net deferred income tax liabilities	\$ (7,806)	\$ (3,689)	\$ (3,941)	\$ (2,119)	\$ (1,986)	\$ (817)	\$ (1,009)	\$ (551)

(a) Primarily related to capital lease obligations and debt fair value adjustments.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

The following table presents the expiration of tax credits and NOL carryforwards.

(in millions)	December 31, 2018	
	Amount	Expiration Year
Investment tax credits	\$ 1,614	2024 – 2038
Alternative minimum tax credits	574	Refundable by 2021
Federal NOL carryforwards ^{(a)(e)}	788	2022 – Indefinite
State NOL carryforwards and credits ^{(b)(e)}	301	2019 – Indefinite
Foreign NOL carryforwards ^(c)	12	2027 – 2037
Foreign Tax Credits ^(d)	1,271	2024 – 2027
Charitable contribution carryforwards	20	2019 – 2023
Total tax credits and NOL carryforwards	\$ 4,580	

(a) A valuation allowance of \$4 million has been recorded on the Federal NOL carryforwards, as presented in the Net Deferred Income Tax Liability Components table.

(b) A valuation allowance of \$85 million has been recorded on the state NOL carryforwards, as presented in the Net Deferred Income Tax Liability Components table.

(c) A valuation allowance of \$12 million has been recorded on the foreign NOL carryforwards, as presented in the Net Deferred Income Tax Liability Components table.

(d) A valuation allowance of \$383 million has been recorded on the foreign tax credits, as presented in the Net Deferred Income Tax Liability Components table.

(e) Indefinite carryforward for Federal NOLs, and NOLs for states that have adopted the Tax Act's NOL provisions, generated in tax years beginning after December 31, 2017.

(in millions)	December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Deferred credits and other liabilities	\$ 143	\$ 33	\$ 78	\$ 23	\$ 49	\$ 11	\$ 6	\$ (5)
Capital lease obligations	49	14	—	—	—	—	2	—
Pension, post-retirement and other employee benefits	295	(17)	111	44	60	14	18	(4)
Progress Energy merger purchase accounting adjustments ^(a)	536	—	—	—	—	—	—	—
Tax credits and NOL carryforwards	4,527	234	402	156	143	25	216	70
Regulatory liabilities and deferred credits	—	222	—	—	—	65	—	61
Investments and other assets	—	—	—	—	—	—	1	18
Other	73	10	1	4	—	—	—	—
Valuation allowance	(519)	—	(14)	—	—	—	—	—
Total deferred income tax assets	5,104	496	578	227	252	115	243	140
Investments and other assets	(1,419)	(849)	(470)	(289)	(187)	—	(14)	—
Accelerated depreciation rates	(9,216)	(3,060)	(2,803)	(1,583)	(1,257)	(896)	(966)	(697)
Regulatory assets and deferred debits, net	(1,090)	—	(807)	(238)	(569)	—	(188)	—
Other	—	—	—	—	—	—	—	(7)
Total deferred income tax liabilities	(11,725)	(3,909)	(4,080)	(2,110)	(2,013)	(896)	(1,168)	(704)
Net deferred income tax liabilities	\$ (6,621)	\$ (3,413)	\$ (3,502)	\$ (1,883)	\$ (1,761)	\$ (781)	\$ (925)	\$ (564)

(a) Primarily related to capital lease obligations and debt fair value adjustments.

On June 28, 2017, the North Carolina General Assembly amended N.C. Gen. Stat. 105-130.3, reducing the North Carolina corporate income tax rate from a statutory rate of 3.0 to 2.5 percent beginning January 1, 2019. Duke Energy recorded a net reduction of approximately \$55 million to their North Carolina deferred tax liabilities in the second quarter of 2017. The significant majority of this deferred tax liability reduction was offset by

recording a regulatory liability pending NCUC determination of the disposition of amounts related to Duke Energy Carolinas, Duke Energy Progress and Piedmont. The impact did not have a significant impact on the financial position, results of operation or cash flows of Duke Energy, Duke Energy Carolinas, Progress Energy or Duke Energy Progress.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

UNRECOGNIZED TAX BENEFITS

The following tables present changes to unrecognized tax benefits.

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unrecognized tax benefits – January 1	\$ 25	\$ 5	\$ 5	\$ 5	\$ 5	\$ 1	\$ 1	\$ 3
Unrecognized tax benefits increases (decreases)								
Gross decreases – tax positions in prior periods	(2)	(1)	—	—	(4)	—	—	—
Gross increases – current period tax positions	7	2	4	1	2	—	—	1
Decreases due to settlements	(6)	—	—	—	—	—	—	—
Total changes	(1)	1	4	1	(2)	—	—	1
Unrecognized tax benefits – December 31	\$ 24	\$ 6	\$ 9	\$ 6	\$ 3	\$ 1	\$ 1	\$ 4

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unrecognized tax benefits – January 1	\$ 17	\$ 1	\$ 2	\$ 2	\$ 4	\$ 4	\$ —	\$ —
Unrecognized tax benefits increases (decreases)								
Gross increases – tax positions in prior periods	12	4	3	3	1	1	1	3
Gross decreases – tax positions in prior periods	(4)	—	—	—	—	(4)	—	—
Total changes	8	4	3	3	1	(3)	1	3
Unrecognized tax benefits – December 31	\$ 25	\$ 5	\$ 5	\$ 5	\$ 5	\$ 1	\$ 1	\$ 3

(in millions)	Year Ended December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unrecognized tax benefits – January 1	\$ 88	\$ 72	\$ 1	\$ 3	\$ —	\$ —	\$ —	\$ 1
Unrecognized tax benefits increases (decreases)								
Gross increases – tax positions in prior periods	—	—	—	—	4	4	—	—
Gross decreases – tax positions in prior periods	(4)	(4)	(1)	(1)	—	—	—	—
Decreases due to settlements	(68)	(67)	—	—	—	—	—	(1)
Reduction due to lapse of statute of limitations	1	—	2	—	—	—	—	—
Total changes	(71)	(71)	1	(1)	4	4	—	(1)
Unrecognized tax benefits – December 31	\$ 17	\$ 1	\$ 2	\$ 2	\$ 4	\$ 4	\$ —	\$ —

The following table includes additional information regarding the Duke Energy Registrants' unrecognized tax benefits at December 31, 2018. All Duke Energy Registrants do not anticipate a material increase or decrease in unrecognized tax benefits within the next 12 months.

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Amount that if recognized, would affect the effective tax rate or regulatory liability ^(a)	\$21	\$ 6	\$ 9	\$ 6	\$ 3	\$ 1	\$ 1	\$ 4
Amount that if recognized, would be recorded as a component of discontinued operations	2	—	—	—	—	—	—	—

(a) Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont are unable to estimate the specific amounts that would affect the effective tax rate versus the regulatory liability.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

OTHER TAX MATTERS

The following tables include interest recognized in the Consolidated Statements of Operations and the Consolidated Balance Sheets.

(in millions)	Year Ended December 31, 2018		
	Duke Energy	Progress Energy	Duke Energy Progress
Net interest income recognized related to income taxes	\$ 2	\$ —	\$ —
Interest payable related to income taxes	3	1	1

(in millions)	Year Ended December 31, 2017				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Net interest income recognized related to income taxes	\$ —	\$ —	\$ 1	\$ —	\$ 1
Net interest expense recognized related to income taxes	—	2	—	—	—
Interest payable related to income taxes	5	25	1	1	—

(in millions)	Year Ended December 31, 2016				
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Net interest income recognized related to income taxes	\$ —	\$ —	\$ 1	\$ —	\$ 2
Net interest expense recognized related to income taxes	—	7	—	—	—
Interest payable related to income taxes	4	23	1	1	—

Piedmont recognized \$1 million in net interest income related to income taxes in the Consolidated Statements of Operations for the year ended October 31, 2016.

Duke Energy and its subsidiaries are no longer subject to U.S. federal examination for years before 2015. With few exceptions, Duke Energy and its subsidiaries are no longer subject to state, local or non-U.S. income tax examinations by tax authorities for years before 2015.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

24. OTHER INCOME AND EXPENSES, NET

The components of Other income and expenses, net on the Consolidated Statements of Operations are as follows.

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Interest income	\$ 20	\$ 1	\$ 18	\$ 1	\$ 18	\$ 7	\$ 9	\$ 1
AFUDC equity	221	73	104	57	47	11	32	—
Post in-service equity returns	15	9	5	5	—	1	—	—
Nonoperating income, other	143	70	38	24	21	4	4	13
Other income and expense, net	\$399	\$153	\$ 165	\$ 87	\$ 86	\$ 23	\$ 45	\$ 14

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Interest income	\$ 13	\$ 2	\$ 6	\$ 2	\$ 5	\$ 6	\$ 8	\$ —
AFUDC equity	237	106	92	47	45	11	28	—
Post in-service equity returns	40	28	12	12	—	—	—	—
Nonoperating income, other	218	63	99	54	46	6	11	(11)
Other income and expense, net	\$508	\$199	\$ 209	\$115	\$ 96	\$ 23	\$ 47	\$ (11)

(in millions)	Year Ended December 31, 2016							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Interest income	\$ 21	\$ 4	\$ 4	\$ 3	\$ 2	\$ 5	\$ 6	\$ 6
AFUDC equity	200	102	76	50	26	6	16	16
Post in-service equity returns	67	55	12	12	—	—	—	—
Nonoperating income, other	175	53	94	67	35	—	4	4
Other income and expense, net ^(a)	\$ 463	\$ 214	\$ 186	\$ 132	\$ 63	\$ 11	\$ 26	\$ 26

(a) Amounts for Piedmont for the two months ended December 31, 2016, and for the year ended October 31, 2016, were not material.

25. SUBSEQUENT EVENTS

For information on subsequent events related to the adoption of the new lease accounting standard, regulatory matters, commitments and contingencies and debt and credit facilities, see Notes 1, 4, 5 and 6, respectively.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

26. QUARTERLY FINANCIAL DATA (UNAUDITED)

DUKE ENERGY

Quarterly EPS amounts may not sum to the full-year total due to changes in the weighted average number of common shares outstanding and rounding.

(in millions, except per share data)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Operating revenues	\$6,135	\$5,643	\$6,628	\$6,115	\$24,521
Operating income	1,256	979	1,579	871	4,685
Income from continuing operations	622	507	1,062	434	2,625
(Loss) Income from discontinued operations, net of tax	—	(5)	4	20	19
Net income	622	502	1,066	454	2,644
Net income attributable to Duke Energy Corporation	620	500	1,082	464	2,666
Earnings per share:					
Income from continuing operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ 0.88	\$ 0.72	\$ 1.51	\$ 0.62	\$ 3.73
Diluted	\$ 0.88	\$ 0.72	\$ 1.51	\$ 0.62	\$ 3.73
(Loss) Income from discontinued operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ —	\$ (0.01)	\$ —	\$ 0.03	\$ 0.03
Diluted	\$ —	\$ (0.01)	\$ —	\$ 0.03	\$ 0.03
Net income attributable to Duke Energy Corporation common stockholders					
Basic	\$ 0.88	\$ 0.71	\$ 1.51	\$ 0.65	\$ 3.76
Diluted	\$ 0.88	\$ 0.71	\$ 1.51	\$ 0.65	\$ 3.76
2017					
Operating revenues	\$5,729	\$5,555	\$6,482	\$5,799	\$23,565
Operating income	1,402	1,353	1,661	1,209	5,625
Income from continuing operations	717	691	957	705	3,070
Loss from discontinued operations, net of tax	—	(2)	(2)	(2)	(6)
Net income	717	689	955	703	3,064
Net income attributable to Duke Energy Corporation	716	686	954	703	3,059
Earnings per share:					
Income from continuing operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ 1.02	\$ 0.98	\$ 1.36	\$ 1.00	\$ 4.37
Diluted	\$ 1.02	\$ 0.98	\$ 1.36	\$ 1.00	\$ 4.37
Loss from discontinued operations attributable to Duke Energy Corporation common stockholders					
Basic	\$ —	\$ —	\$ —	\$ —	\$ (0.01)
Diluted	\$ —	\$ —	\$ —	\$ —	\$ (0.01)
Net income attributable to Duke Energy Corporation common stockholders					
Basic	\$ 1.02	\$ 0.98	\$ 1.36	\$ 1.00	\$ 4.36
Diluted	\$ 1.02	\$ 0.98	\$ 1.36	\$ 1.00	\$ 4.36

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (17)	\$ (20)	\$ (16)	\$ (31)	\$ (84)
Regulatory and Legislative Impacts (see Note 4)	(86)	(179)	—	—	(265)
Sale of Retired Plant (see Note 3)	(107)	—	—	—	(107)
Impairment Charges (see Notes 4, 11 and 12)	(55)	—	(93)	(60)	(208)
Severance Charges (see Note 20)	—	—	—	(187)	(187)
Impacts of the Tax Act (see Note 23)	(76)	—	3	53	(20)
Total	\$ (341)	\$ (199)	\$ (106)	\$ (225)	\$ (871)
2017					
Costs to Achieve Mergers (see Note 2)	\$ (16)	\$ (30)	\$ (23)	\$ (34)	\$ (103)
Regulatory Settlements (see Note 4)	—	—	(135)	(23)	(158)
Commercial Renewables Impairments (see Notes 10 and 11)	—	—	(84)	(18)	(102)
Impacts of the Tax Act (see Note 23)	—	—	—	102	102
Total	\$ (16)	\$ (30)	\$ (242)	\$ 27	\$ (261)

DUKE ENERGY CAROLINAS

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Operating revenues	\$ 1,763	\$ 1,672	\$ 2,090	\$ 1,775	\$7,300
Operating income	482	224	713	241	1,660
Net income	323	117	496	135	1,071
2017					
Operating revenues	\$ 1,716	\$ 1,729	\$ 2,136	\$ 1,721	\$7,302
Operating income	471	471	763	384	2,089
Net income	270	273	466	205	1,214

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (4)	\$ (2)	\$ (2)	\$ (1)	\$ (9)
Regulatory and Legislative Impacts (see Note 4)	(19)	(179)	—	—	(198)
Severance Charges (see Note 20)	—	—	—	(102)	(102)
Impacts of the Tax Act (see Note 23)	—	—	(1)	—	(1)
Total	\$ (23)	\$ (181)	\$ (3)	\$ (103)	\$ (310)
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (4)	\$ (6)	\$ (5)	\$ (5)	\$ (20)
Impacts of the Tax Act (see Note 23)	—	—	—	(15)	(15)
Total	\$ (4)	\$ (6)	\$ (5)	\$ (20)	\$ (35)

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

PROGRESS ENERGY

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Operating revenues	\$ 2,576	\$ 2,498	\$ 3,045	\$ 2,609	\$10,728
Operating income	447	484	663	334	1,928
Net income	237	267	406	123	1,033
Net income attributable to Parent	235	265	404	123	1,027
2017					
Operating revenues	\$ 2,179	\$ 2,392	\$ 2,864	\$ 2,348	\$ 9,783
Operating income	471	576	641	459	2,147
Net income	201	277	343	447	1,268
Net income attributable to Parent	199	274	341	444	1,258

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (4)	\$ (3)	\$ (1)	\$ (2)	\$ (10)
Regulatory and Legislative Impacts (see Note 4)	(67)	—	—	—	(67)
Impairment Charges (see Note 4)	—	—	—	(60)	(60)
Severance Charges (see Note 20)	—	—	—	(69)	(69)
Impacts of the Tax Act (see Note 23)	(1)	—	(5)	(19)	(25)
Total	\$ (72)	\$ (3)	\$ (6)	\$ (150)	\$ (231)
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (4)	\$ (7)	\$ (6)	\$ (6)	\$ (23)
Regulatory Settlements (see Note 4)	—	—	(135)	(23)	(158)
Impacts of the Tax Act (see Note 23)	—	—	—	246	246
Total	\$ (4)	\$ (7)	\$ (141)	\$ 217	\$ 65

DUKE ENERGY PROGRESS

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Operating revenues	\$ 1,460	\$ 1,291	\$ 1,582	\$ 1,366	\$ 5,699
Operating income	269	233	330	227	1,059
Net income	177	139	216	135	667
2017					
Operating revenues	\$ 1,219	\$ 1,199	\$ 1,460	\$ 1,251	\$ 5,129
Operating income	274	270	398	243	1,185
Net income	147	154	246	168	715

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (2)	\$ (2)	\$ (1)	\$ (1)	\$ (6)
Regulatory and Legislative Impacts (see Note 4)	(67)	—	—	—	(67)
Severance Charges (see Note 20)	—	—	—	(52)	(52)
Impacts of the Tax Act (see Note 23)	—	—	(4)	(15)	(19)
Total	\$ (69)	\$ (2)	\$ (5)	\$ (68)	\$ (144)
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (2)	\$ (4)	\$ (4)	\$ (4)	\$ (14)
Regulatory Settlements (see Note 4)	—	—	—	(23)	(23)
Impacts of the Tax Act (see Note 23)	—	—	—	40	40
Total	\$ (2)	\$ (4)	\$ (4)	\$ 13	\$ 3

DUKE ENERGY FLORIDA

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Operating revenues	\$ 1,115	\$ 1,203	\$ 1,462	\$ 1,241	\$5,021
Operating income	173	245	331	107	856
Net income	103	168	243	40	554
2017					
Operating revenues	\$ 959	\$ 1,191	\$ 1,401	\$ 1,095	\$4,646
Operating income	192	301	236	212	941
Net income	90	158	120	344	712

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (2)	\$ (1)	\$ —	\$ (1)	\$ (4)
Impairment Charges (see Note 4)	—	—	—	(60)	(60)
Severance Charges (see Note 20)	—	—	—	(17)	(17)
Impacts of the Tax Act (see Note 23)	—	—	(2)	2	—
Total	\$ (2)	\$ (1)	\$ (2)	\$ (76)	\$ (81)
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (2)	\$ (3)	\$ (2)	\$ (2)	\$ (9)
Regulatory Settlements (see Note 4)	—	—	(135)	—	(135)
Impacts of the Tax Act (see Note 23)	—	—	—	226	226
Total	\$ (2)	\$ (3)	\$ (137)	\$ 224	\$ 82

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

DUKE ENERGY OHIO

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Operating revenues	\$ 524	\$ 459	\$ 469	\$ 505	\$ 1,957
Operating (loss) income	(21)	77	139	93	288
Net (loss) income	(25)	46	100	55	176
2017					
Operating revenues	\$ 518	\$ 437	\$ 471	\$ 497	\$ 1,923
Operating income	82	64	101	73	320
Loss from discontinued operations, net of tax	—	—	(1)	—	(1)
Net income	42	30	55	65	192

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (3)	\$ (5)	\$ —	\$ (6)	\$ (14)
Sale of Retired Plant (see Note 3)	(107)	—	—	—	(107)
Severance Charges (see Note 20)	—	—	—	(6)	(6)
Impacts of the Tax Act (see Note 23)	—	—	—	(2)	(2)
Total	\$ (110)	\$ (5)	\$ —	\$ (14)	\$ (129)
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (1)	\$ (1)	\$ (2)	\$ (2)	\$ (6)
Impacts of the Tax Act (see Note 23)	—	—	—	23	23
Total	\$ (1)	\$ (1)	\$ (2)	\$ 21	\$ 17

DUKE ENERGY INDIANA

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Operating revenues	\$ 731	\$ 738	\$ 819	\$ 771	\$ 3,059
Operating income	168	169	173	133	643
Net income	100	98	119	76	393
2017					
Operating revenues	\$ 758	\$ 742	\$ 802	\$ 745	\$ 3,047
Operating income	184	208	228	166	786
Net income	91	106	121	36	354

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ —	\$ —	\$ (2)	\$ —	\$ (2)
Severance Charges (see Note 20)	—	—	—	(7)	(7)
Total	\$ —	\$ —	\$ (2)	\$ (7)	\$ (9)
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (1)	\$ (2)	\$ (2)	\$ (1)	\$ (6)
Impacts of the Tax Act (see Note 23)	—	—	—	(55)	(55)
Total	\$ (1)	\$ (2)	\$ (2)	\$ (56)	\$ (61)

PIEDMONT

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Operating revenues	\$ 553	\$ 215	\$ 172	\$ 435	\$ 1,375
Operating income (loss)	161	5	(19)	79	226
Net income (loss)	110	(8)	(21)	48	129
2017					
Operating revenues	\$ 500	\$ 201	\$ 183	\$ 444	\$ 1,328
Operating income (loss)	170	5	(4)	126	297
Net income (loss)	95	(8)	(11)	63	139

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (6)	\$ (9)	\$ (11)	\$ (22)	\$ (48)
Severance Charges (see Note 20)	—	—	—	(2)	(2)
Total	\$ (6)	\$ (9)	\$ (11)	\$ (24)	\$ (50)
2017					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (6)	\$ (13)	\$ (8)	\$ (19)	\$ (46)
Impacts of the Tax Act (see Note 23)	—	—	—	2	2
Total	\$ (6)	\$ (13)	\$ (8)	\$ (17)	\$ (44)

PART II

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

ITEM 9A. CONTROLS AND PROCEDURES

Disclosure Controls and Procedures

Disclosure controls and procedures are controls and other procedures that are designed to ensure that information required to be disclosed by the Duke Energy Registrants in the reports they file or submit under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified by the SEC rules and forms.

Disclosure controls and procedures include, without limitation, controls and procedures designed to provide reasonable assurance that information required to be disclosed by the Duke Energy Registrants in the reports they file or submit under the Exchange Act is accumulated and communicated to management, including the Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.

Under the supervision and with the participation of management, including the Chief Executive Officer and Chief Financial Officer, the Duke Energy Registrants have evaluated the effectiveness of their disclosure controls and procedures (as such term is defined in Rule 13a-15(e) and 15d-15(e) under the Exchange Act) as of December 31, 2018, and, based upon this evaluation, the Chief Executive Officer and Chief Financial Officer have concluded that these controls and procedures are effective in providing reasonable assurance of compliance.

Changes in Internal Control Over Financial Reporting

Under the supervision and with the participation of management, including the Chief Executive Officer and Chief Financial Officer, the Duke Energy Registrants have evaluated changes in internal control over financial reporting (as such term is defined in Rules 13a-15 and 15d-15 under the Exchange Act) that occurred during the fiscal quarter ended December 31, 2018, and have concluded no change has materially affected, or is reasonably likely to materially affect, internal control over financial reporting.

Management's Annual Report on Internal Control Over Financial Reporting

The Duke Energy Registrants' management is responsible for establishing and maintaining an adequate system of internal control over financial reporting, as such term is defined in Exchange Act Rules 13a-15(f) and 15d-15(f). The Duke Energy Registrants' internal control system was designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes, in accordance with generally accepted accounting principles in the United States. Due to inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness of the internal control over financial reporting to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with policies and procedures may deteriorate.

The Duke Energy Registrants' management, including their Chief Executive Officer and Chief Financial Officer, has conducted an evaluation of the effectiveness of their internal control over financial reporting as of December 31, 2018, based on the framework in the Internal Control – Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on that evaluation, management concluded that its internal controls over financial reporting were effective as of December 31, 2018.

Deloitte & Touche LLP, Duke Energy's independent registered public accounting firm, has issued an attestation report on the effectiveness of Duke Energy's internal control over financial reporting, which is included herein. This report is not applicable to the Subsidiary Registrants as these companies are not accelerated or large accelerated filers.

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholders and the Board of Directors of
Duke Energy Corporation

Opinion on Internal Control over Financial Reporting

We have audited the internal control over financial reporting of Duke Energy Corporation and subsidiaries (the "Company") as of December 31, 2018, based on criteria established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2018, based on criteria established in Internal Control - Integrated Framework (2013) issued by COSO.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated financial statements as of December 31, 2018, of the Company and our report dated February 28, 2019, expressed an unqualified opinion on those financial statements.

Basis for Opinion

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management's Annual Report on Internal Control Over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 28, 2019

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PART III

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

Information regarding Duke Energy's Executive Officers is set forth in Part I, Item 1, "Business — Executive Officers of the Registrants," in this Annual Report on Form 10-K. Duke Energy will provide information that is responsive to the remainder of this Item 10 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 10 by reference.

ITEM 11. EXECUTIVE COMPENSATION

Duke Energy will provide information that is responsive to this Item 11 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 11 by reference.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

Equity Compensation Plan Information

The following table shows information as of December 31, 2018, about securities to be issued upon exercise of outstanding options, warrants and rights under Duke Energy's equity compensation plans, along with the weighted-average exercise price of the outstanding options, warrants and rights and the number of securities remaining available for future issuance under the plans.

Plan Category	Number of securities to be issued upon exercise of outstanding options, warrants and rights (a)	Weighted average exercise price of outstanding options, warrants and rights (b) ⁽¹⁾	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a)) (c)
Equity compensation plans approved by security holders	3,729,606 ⁽²⁾	n/a	6,080,741 ⁽³⁾
Equity compensation plans not approved by security holders	186,900 ⁽⁴⁾	n/a	n/a ⁽⁵⁾
Total	3,916,506	n/a	6,080,741

(1) As of December 31, 2018, no options were outstanding under equity compensation plans.

(2) Includes restricted stock units and performance shares (assuming the maximum payout level) granted under the Duke Energy Corporation 2015 Long-Term Incentive Plan, as well as shares that could be payable with respect to certain compensation deferred under the Executive Savings Plan or the Directors' Savings Plan.

(3) Includes shares remaining available for issuance pursuant to stock awards under the Duke Energy Corporation 2015 Long-Term Incentive Plan.

(4) Includes shares that could be payable with respect to certain compensation deferred under the Executive Savings Plan or the Directors' Savings Plan, each of which is a non-qualified deferred compensation plan described in more detail below.

(5) The number of shares remaining available for future issuance under equity compensation plans not approved by security holders cannot be determined because it is based on the amount of future voluntary deferrals, if any, under the Executive Savings Plan and the Directors' Savings Plan.

Under the Executive Savings Plan, participants can elect to defer a portion of their base salary and short-term incentive compensation. Participants also receive a company matching contribution in excess of the contribution limits prescribed by the Internal Revenue Code under the Duke Energy Retirement Savings Plan, which is the 401(k) plan in which employees are generally eligible to participate. In general, payments are made following termination of employment or death in the form of a lump sum or installments, as selected by the participant. Participants may direct the deemed investment of base salary deferrals, short-term incentive compensation deferrals and matching contributions among investment options available under the Duke Energy Retirement Savings Plan, including the Duke Energy Common Stock Fund. Participants may change their investment elections on a daily basis. Deferrals of equity awards are credited with earnings and losses based on the performance

of the Duke Energy Common Stock Fund. The benefits payable under the plan are unfunded and subject to the claims of Duke Energy's creditors.

Under the Directors' Savings Plan, outside directors may elect to defer all or a portion of their annual compensation, generally consisting of retainers. Deferred amounts are credited to an unfunded account, the balance of which is adjusted for the performance of phantom investment options, including the Duke Energy common stock fund, as elected by the director, and generally are paid when the director terminates his or her service from the Board of Directors.

Duke Energy will provide additional information that is responsive to this Item 12 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 12 by reference.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE

Duke Energy will provide information that is responsive to this Item 13 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 13 by reference.

PART III

ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

Deloitte provided professional services to the Duke Energy Registrants. The following tables present the Deloitte fees for services rendered to the Duke Energy Registrants during 2018 and 2017.

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Types of Fees								
Audit Fees ^(a)	\$ 14.0	\$ 5.0	\$ 5.5	\$ 3.3	\$ 2.2	\$ 0.9	\$ 1.4	\$ 0.8
Audit-Related Fees ^(b)	0.4	—	0.1	—	0.1	—	—	—
Tax Fees ^(c)	0.6	0.2	0.2	0.1	0.1	—	0.1	0.1
Other Fees ^(d)	—	—	—	—	—	—	—	—
Total Fees	\$ 15.0	\$ 5.2	\$ 5.8	\$ 3.4	\$ 2.4	\$ 0.9	\$ 1.5	\$ 0.9

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Types of Fees								
Audit Fees ^(a)	\$ 13.6	\$ 4.7	\$ 5.6	\$ 3.1	\$ 2.4	\$ 0.8	\$ 1.4	\$ 0.8
Audit-Related Fees ^(b)	0.2	—	—	—	—	—	—	—
Tax Fees ^(c)	1.7	0.6	0.1	0.4	—	0.1	0.1	0.1
Other Fees ^(d)	0.1	—	—	—	—	—	—	—
Total Fees	\$ 15.6	\$ 5.3	\$ 5.7	\$ 3.5	\$ 2.4	\$ 0.9	\$ 1.5	\$ 0.9

- (a) Audit Fees are fees billed, or expected to be billed, by Deloitte for professional services for the financial statement audits, audit of the Duke Energy Registrants' financial statements included in the Annual Report on Form 10-K, reviews of financial statements included in Quarterly Reports on Form 10-Q, and services associated with securities filings such as comfort letters and consents.
- (b) Audit-Related Fees are fees billed, or expected to be billed, by Deloitte for assurance and related services that are reasonably related to the performance of an audit or review of financial statements, including statutory reporting requirements.
- (c) Tax Fees are fees billed by Deloitte for tax return assistance and preparation, tax examination assistance and professional services related to tax planning and tax strategy.
- (d) Other Fees are billed by Deloitte for attendance at Deloitte-sponsored conferences and access to Deloitte research tools and subscription services.

To safeguard the continued independence of the independent auditor, the Audit Committee of Duke Energy adopted a policy that all services provided by the independent auditor require preapproval by the Audit Committee. Pursuant to the policy, certain audit services, audit-related services, tax services and other services have been specifically preapproved up to fee limits. In the event

the cost of any of these services may exceed the fee limits, the Audit Committee must specifically approve the service. All services performed in 2018 and 2017 by the independent accountant were approved by the Audit Committee pursuant to the preapproval policy.

PART IV

ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

(a) Consolidated Financial Statements, Supplemental Financial Data and Supplemental Schedules included in Part II of this Annual Report are as follows:

Duke Energy Corporation

Consolidated Financial Statements
Consolidated Statements of Operations for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Statements of Comprehensive Income for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Balance Sheets as of December 31, 2018, and 2017
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, 2017 and 2016
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 26 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Carolinas, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Balance Sheets as of December 31, 2018, and 2017
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, 2017 and 2016
Notes to the Consolidated Financial Statements
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All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Progress Energy, Inc.

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Balance Sheets as of December 31, 2018, and 2017
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, 2017 and 2016
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 26 to the Consolidated Financial Statements)
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All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Progress, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Balance Sheets as of December 31, 2018, and 2017
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, 2017 and 2016
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 26 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Florida, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Balance Sheets as of December 31, 2018, and 2017
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, 2017 and 2016
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 26 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

PART IV

Duke Energy Ohio, Inc.

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Balance Sheets as of December 31, 2018, and 2017
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, 2017 and 2016
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 26 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Indiana, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Balance Sheets as of December 31, 2018, and 2017
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, 2017 and 2016
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, 2017 and 2016
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 26 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Piedmont Natural Gas Company, Inc.

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2018, and 2017, Two Months Ended December 31, 2016, and the Year Ended October 31, 2016
Consolidated Balance Sheets as of December 31, 2018, and 2017
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, and 2017, Two Months Ended December 31, 2016, and the Year Ended October 31, 2016
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2018, and 2017, Two Months Ended December 31, 2016, and the Year Ended October 31, 2016
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 26 to the Consolidated Financial Statements)
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All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

PART IV

EXHIBIT INDEX

Exhibits filed herewithin are designated by an asterisk (*). All exhibits not so designated are incorporated by reference to a prior filing, as indicated. Items constituting management contracts or compensatory plans or arrangements are designated by a double asterisk (**). The Company agrees to furnish upon request to the Commission a copy of any omitted schedules or exhibits upon request on all items designated by a triple asterisk (***).

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
2.1	Agreement and Plan of Merger between Duke Energy Corporation, Diamond Acquisition Corporation and Progress Energy, Inc., dated as of January 8, 2011 (incorporated by reference to Exhibit 2.1 to Duke Energy Corporation's Current Report on Form 8-K filed on January 11, 2011, File No. 1-32853).	X							
2.2	Agreement and Plan of Merger between Piedmont Natural Gas Company, Duke Energy Corporation and Forest Subsidiary, Inc. (incorporated by reference to Exhibit 2.1 to Duke Energy Corporation's Current Report on Form 8-K filed on October 26, 2015, File No. 1-32853).	X							
3.1	Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 to Duke Energy Corporation's Current Report on Form 8-K filed on May 20, 2014, File No. 1-32853).	X							
3.2	Amended and Restated By-Laws of Duke Energy Corporation (incorporated by reference to Exhibit 3.1 to Duke Energy Corporation's Current Report on Form 8-K filed on January 4, 2016, File No. 1-32853).	X							
3.3	Articles of Organization including Articles of Conversion (incorporated by reference to Exhibit 3.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on April 7, 2006, File No. 1-4928).		X						
3.3.1	Amended Articles of Organization, effective October 1, 2006, (incorporated by reference to Exhibit 3.1 to Duke Energy Carolinas, LLC's Quarterly Report on Form 10-Q for the quarter ended September 30, 2006, filed on November 13, 2006, File No. 1-4928).		X						
3.4	Amended Articles of Incorporation of Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company), effective October 23, 1996, (incorporated by reference to Exhibit 3(a) to registrant's Quarterly Report on Form 10-Q for the quarter ended September 30, 1996, filed on November 13, 1996, File No. 1-1232).						X		
3.4.1	Amended Articles of Incorporation, effective September 19, 2006, (incorporated by reference to Exhibit 3.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Quarterly Report on Form 10-Q for the quarter ended September 30, 2006, filed on November 17, 2006, File No. 1-1232).						X		
3.5	Certificate of Conversion of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.1 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.1	Articles of Entity Conversion of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.2	Plan of Entity Conversion of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.3 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.3	Articles of Organization of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.4 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.4	Limited Liability Company Operating Agreement of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.5 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.6	Limited Liability Company Operating Agreement of Duke Energy Carolinas, LLC (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on April 7, 2006, File No. 1-4928).		X						

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
3.7	Regulations of Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company), effective July 23, 2003, (incorporated by reference to Exhibit 3.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2003, filed on August 13, 2003, File No. 1-1232).						X		
3.8	Articles of Organization including Articles of Conversion for Duke Energy Progress, LLC (incorporated by reference to Exhibit 3.1 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3382).				X				
3.8.1	Plan of Conversion of Duke Energy Progress, Inc. (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3382).				X				
3.8.2	Limited Liability Company Operating Agreement of Duke Energy Progress, LLC (incorporated by reference to Exhibit 3.3 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3382).				X				
3.9	Amended and Restated Articles of Incorporation of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective June 15, 2000, (incorporated by reference to Exhibit 3(a)(1) to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2000, filed on August 14, 2000, File No. 1-3382).			X					
3.9.1	Articles of Amendment to the Amended and Restated Articles of Incorporation of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective December 4, 2000, (incorporated by reference to Exhibit 3(b)(1) to registrant's Annual Report on Form 10-K for the year ended December 31, 2001, filed on March 28, 2002, File No. 1-3382).			X					
3.9.2	Articles of Amendment to the Amended and Restated Articles of Incorporation of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective May 10, 2006, (incorporated by reference to Exhibit 3(a) to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006, filed on August 9, 2006, File No. 1-15929).			X					
3.9.3	By-Laws of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective May 10, 2006, (incorporated by reference to Exhibit 3(b) to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006, filed on August 9, 2006, File No. 1-15929).			X					
3.10	Articles of Conversion for Duke Energy Florida, LLC (incorporated by reference to Exhibit 3.4 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).					X			
3.10.1	Articles of Organization for Duke Energy Florida, LLC (incorporated by reference to Exhibit 3.5 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).					X			
3.10.2	Plan of Conversion of Duke Energy Florida, Inc. (incorporated by reference to Exhibit 3.6 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).					X			
3.10.3	Limited Liability Company Operating Agreement of Duke Energy Florida, LLC (incorporated by reference to Exhibit 3.7 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).					X			
3.11	Amended and Restated Articles of Incorporation of Piedmont Natural Gas Company, Inc., dated as of October 3, 2016 (incorporated by reference to Exhibit 3.1 to registrant's Annual Report on Form 10-K for the fiscal year ended October 31, 2016, filed on December 22, 2016, File No. 001-06196).								X
3.11.1	Bylaws of Piedmont Natural Gas Company, Inc., as amended and restated effective October 3, 2016 (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on October 3, 2016, File No. 1-06196).								X

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.1	Indenture between Duke Energy Corporation and The Bank of New York Mellon Trust Company, N.A., as Trustee, dated as of June 3, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 16, 2008, File No. 1-32853).	X							
4.1.1	First Supplemental Indenture, dated as of June 16, 2008, (incorporated by reference to Exhibit 4.2 to Duke Energy Corporation's Current Report on Form 8-K filed on June 16, 2008, File No. 1-32853).	X							
4.1.2	Second Supplemental Indenture, dated as of January 26, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on January 26, 2009, File No. 1-32853).	X							
4.1.3	Third Supplemental Indenture, dated as of August 28, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on August 28, 2009, File No. 1-32853).	X							
4.1.4	Fourth Supplemental Indenture, dated as of March 25, 2010, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on March 25, 2010, File No. 1-32853).	X							
4.1.5	Fifth Supplemental Indenture, dated as of August 25, 2011, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on August 25, 2011, File No. 1-32853).	X							
4.1.6	Sixth Supplemental Indenture, dated as of November 17, 2011, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on November 17, 2011, File No. 1-32853).	X							
4.1.7	Seventh Supplemental Indenture, dated as of August 16, 2012, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on August 16, 2012, File No. 1-32853).	X							
4.1.8	Eighth Supplemental Indenture, dated as of January 14, 2013, (incorporated by reference to Exhibit 2 to the Registration Statement of Form 8-A of the Company filed on January 14, 2013, File No. 1-32853).	X							
4.1.9	Ninth Supplemental Indenture, dated as of June 13, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 13, 2013, File No. 1-32853).	X							
4.1.10	Tenth Supplemental Indenture, dated as of October 11, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on October 11, 2013, File No. 1-32853).	X							
4.1.11	Eleventh Supplemental Indenture, dated as of April 4, 2014, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on April 4, 2014, File No. 1-32853).	X							
4.1.12	Twelfth Supplemental Indenture, dated as of November 19, 2015, (incorporated by reference to Exhibit 4.2 to Duke Energy Corporation's Current Report on Form 8-K filed on November 19, 2015, File No. 1-32853).	X							
4.1.13	Thirteenth Supplemental Indenture, dated as of April 18, 2016, to the indenture dated as of June 3, 2008, between Duke Energy Corporation and The Bank of New York Mellon Trust Company, N.A., as Trustee (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended March 31, 2016, filed on May 5, 2016, File No. 1-32853).	X							
4.1.14	Fourteenth Supplemental Indenture, dated as of August 12, 2016, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 12, 2016, File No. 1-32853).	X							
4.1.15	Fifteenth Supplemental Indenture, dated as of April 11, 2017 (incorporated by reference to Exhibit 4.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).	X							

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.1.16	Sixteenth Supplemental Indenture, dated as of June 13, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2017 filed on August 3, 2017, File No. 1-32853).	X							
4.1.17	Seventeenth Supplemental Indenture, dated as of August 10, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 10, 2017, File No. 1-32853).	X							
4.1.18	Eighteenth Supplemental Indenture, dated as of March 29, 2018 (incorporated by reference to Exhibit 4.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2018 filed on May 10, 2018, File No. 1-32853).	X							
4.1.19	Nineteenth Supplemental Indenture, dated as of May 16, 2018 (incorporated by reference to Exhibit 4.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2018 filed on August 2, 2018, File No. 1-32853).	X							
4.1.20	Twentieth Supplemental Indenture (incorporated by reference to Exhibit 4.2 to registrant's Registration Statement on Form 8-A filed on September 17, 2018, File No. 1-32853).	X							
4.2	Senior Indenture between Duke Energy Carolinas, LLC and The Bank of New York Mellon Trust Company, N.A., as successor trustee to JPMorgan Chase Bank (formerly known as The Chase Manhattan Bank), dated as of September 1, 1998, (incorporated by reference to Exhibit 4-D-1 to registrant's Post-Effective Amendment No. 2 to Registration Statement on Form S-3 filed on April 7, 1999, File No. 333-14209).		X						
4.2.1	Fifteenth Supplemental Indenture, dated as of April 3, 2006, (incorporated by reference to Exhibit 4.4.1 to registrant's Registration Statement on Form S-3 filed on October 3, 2007, File No. 333-146483-03).		X						
4.2.2	Sixteenth Supplemental Indenture, dated as of June 5, 2007, (incorporated by reference to Exhibit 4.1 registrant's Current Report on Form 8-K filed on June 6, 2007, File No. 1-4928).		X						
4.3	First and Refunding Mortgage from Duke Energy Carolinas, LLC to The Bank of New York Mellon Trust Company, N.A., successor trustee to Guaranty Trust Company of New York, dated as of December 1, 1927, (incorporated by reference to Exhibit 7(a) to registrant's Form S-1, effective October 15, 1947, File No. 2-7224).		X						
4.3.1	Instrument of Resignation, Appointment and Acceptance among Duke Energy Carolinas, LLC, JPMorgan Chase Bank, N.A., as Trustee, and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of September 24, 2007, (incorporated by reference to Exhibit 4.6.1 to registrant's Registration Statement on Form S-3 filed on October 3, 2007, File No. 333-146483).		X						
4.3.2	Ninth Supplemental Indenture, dated as of February 1, 1949, (incorporated by reference to Exhibit 7(j) to registrant's Form S-1 filed on February 3, 1949, File No. 2-7808).		X						
4.3.3	Twentieth Supplemental Indenture, dated as of June 15, 1964, (incorporated by reference to Exhibit 4-B-20 to registrant's Form S-1 filed on August 23, 1966, File No. 2-25367).		X						
4.3.4	Twenty-third Supplemental Indenture, dated as of February 1, 1968, (incorporated by reference to Exhibit 2-B-26 to registrant's Form S-9 filed on January 21, 1969, File No. 2-31304).		X						
4.3.5	Sixtieth Supplemental Indenture, dated as of March 1, 1990, (incorporated by reference to Exhibit 4-B-61 to registrant's Annual Report on Form 10-K for the year ended December 31, 1990, File No.1-4928).		X						
4.3.6	Sixty-third Supplemental Indenture, dated as of July 1, 1991, (incorporated by reference to Exhibit 4-B-64 to registrant's Registration Statement on Form S-3 filed on February 13, 1992, File No. 33-45501).		X						

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.3.7		X						
4.3.8		X						
4.3.9		X						
4.3.10		X						
4.3.11		X						
4.3.12		X						
4.3.13		X						
4.3.14		X						
4.3.15		X						
4.3.16		X						
4.3.17		X						
4.3.18		X						
4.3.19		X						
4.3.20		X						
4.4				X				
4.4.1				X				
4.4.2				X				

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.4.3				X				
4.4.4				X				
4.4.5				X				
4.4.6				X				
4.4.7				X				
4.4.8				X				
4.4.9				X				
4.4.10				X				
4.4.11				X				
4.4.12				X				
4.4.13				X				
4.4.14				X				
4.4.15				X				
4.4.16				X				
4.4.17				X				
4.4.18				X				
4.4.19				X				
4.4.20				X				
4.4.21				X				
4.4.22				X				
4.4.23				X				
4.4.24				X				
4.4.25				X				
4.4.26				X				

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.4.27				X				
4.4.28				X				
4.4.29				X				
4.4.30				X				
4.4.31				X				
4.4.32				X				
4.4.33				X				
4.4.34				X				
4.4.35				X				
4.4.36				X				
4.4.37				X				
4.4.38				X				
4.4.39				X				
4.4.40				X				
4.4.41				X				
4.4.42				X				
4.4.43				X				
4.4.44				X				
4.4.45				X				
4.4.46				X				
4.4.47				X				
4.4.48				X				
4.4.49				X				
4.4.50				X				

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.4.51				X				
4.4.52				X				
4.4.53				X				
4.4.54				X				
4.4.55				X				
4.4.56				X				
4.4.57				X				
4.4.58				X				
4.4.59				X				
4.4.60				X				
4.4.61				X				
4.4.62				X				
4.4.63				X				
4.4.64				X				
4.4.65				X				
4.4.66				X				
4.4.67				X				
4.4.68				X				
4.4.69				X				

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.4.70				X				
	(incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on November 30, 2005, File No. 1-3382).							
4.4.71				X				
	(incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on March 13, 2008, File No. 1-3382).							
4.4.72				X				
	(incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on January 15, 2009, File No. 1-3382).							
4.4.73				X				
	(incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on June 23, 2009, File No. 1-3382).							
4.4.74				X				
	(incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on September 15, 2011, File No. 1-3382).							
4.4.75				X				
	(incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on May 18, 2012, File No. 1-3382).							
4.4.76				X				
	(incorporated by reference to Exhibit 4.1 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on March 12, 2013, File No. 1-3382).							
4.4.77				X				
	(incorporated by reference to Exhibit 4.1 to Duke Energy Progress, Inc.'s Current Report on Form 8-K filed on March 6, 2014, File No. 1-3382).							
4.4.78				X				
	(incorporated by reference to Exhibit 4.1 to Duke Energy Progress, Inc.'s Current Report on Form 8-K filed on November 20, 2014, File No. 1-3382).							
4.4.79				X				
	(incorporated by reference to Exhibit 4.1 to Duke Energy Progress, LLC's Current Report on Form 8-K filed on August 13, 2015, File No. 1-3382).							
4.4.80				X				
	(incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 16, 2016, File No. 1-15929).							
4.4.81				X				
	(incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 8, 2017, File No. 1-3382).							
4.5				X				
	(Indenture (for Debt Securities) between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and The Bank of New York Mellon (successor in interest to The Chase Manhattan Bank), as Trustee (incorporated by reference to Exhibit 4(a) to registrant's Current Report on Form 8-K filed on November 5, 1999, File No. 1-3382).							

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.6				X				
4.7					X			
4.7.1					X			
4.7.2					X			
4.7.3					X			
4.7.4					X			
4.7.5					X			
4.7.6					X			
4.7.7					X			
4.7.8					X			
4.7.9					X			
4.7.10					X			
4.7.11					X			
4.7.12					X			

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.7.13	Forty-ninth Supplemental Indenture, dated as of March 1, 2010, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on March 25, 2010, File No. 1-3274).					X			
4.7.14	Fiftieth Supplemental Indenture, dated as of August 11, 2011, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on August 18, 2011, File No. 1-3274).					X			
4.7.15	Fifty-first Supplemental Indenture, dated as of November 1, 2012, (incorporated by reference to Exhibit 4.1 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on November 20, 2012, File No. 1-3274).					X			
4.7.16	Fifty-third Supplemental Indenture, dated as of September 1, 2016, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 9, 2016, File No. 1-03274).					X			
4.7.17	Fifty-fifth Supplemental Indenture, dated as of June 1, 2018, (incorporated by reference to Exhibit 4.1 to Registrant's Current Report on Form 8-K filed on June 21, 2018, File No. 1-3274).					X			
4.8	Indenture (for Debt Securities) between Duke Energy Florida, Inc. (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) and The Bank of New York Mellon Trust Company, National Association (successor in interest to J.P. Morgan Trust Company, National Association), as Trustee, dated as of December 7, 2005, (incorporated by reference to Exhibit 4(a) to registrant's Current Report on Form 8-K filed on December 13, 2005, File No. 1-3274).					X			
4.8.1	First Supplemental Indenture, dated as of December 12, 2017, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on December 12, 2017, File No. 1-03274).					X			
4.9	Indenture (for [Subordinated] Debt Securities) (open ended) (incorporated by reference to Exhibit 4(a)(2) Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Registration Statement on Form S-3 filed on November 18, 2008, File No. 333-155418).					X			
4.10	Original Indenture (Unsecured Debt Securities) between Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company) and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of May 15, 1995, (incorporated by reference to Exhibit 3 to registrant's Form 8-A filed on July 27, 1995, File No. 1-1232).						X		
4.10.1	First Supplemental Indenture, dated as of June 1, 1995, (incorporated by reference to Exhibit 4 B to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Quarterly Report on Form 10-Q for the quarter ended June 30, 1995, filed on August 11, 1995, File No. 1-1232).						X		
4.10.2	Seventh Supplemental Indenture, dated as of June 15, 2003, (incorporated by reference to Exhibit 4.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Quarterly Report on Form 10-Q for the quarter ended June 30, 2003, filed on August 13, 2003, File No. 1-1232).						X		
4.11	Original Indenture (First Mortgage Bonds) between Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company) and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of August 1, 1936, (incorporated by reference to an exhibit to registrant's Registration Statement No. 2-2374).						X		
4.11.1	Fortieth Supplemental Indenture, dated as of March 23, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Current Report on Form 8-K filed on March 24, 2009, File No. 1-1232).						X		

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.11.2						X		
4.11.3						X		
4.11.4						X		
4.11.5						X		
4.12							X	
4.12.1							X	
4.12.2							X	
4.12.3							X	
4.12.4							X	
4.13							X	
4.13.1							X	
4.13.2							X	
4.13.3							X	
4.13.4							X	
4.13.5							X	
4.13.6							X	
4.13.7							X	

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.13.8							X	
4.13.9							X	
4.13.10							X	
4.13.11							X	
4.13.12							X	
4.13.13							X	
4.13.14							X	
4.13.15							X	
4.13.16							X	
4.13.17							X	
4.13.18							X	
4.13.19							X	
4.13.20							X	
4.13.21							X	

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.13.22	Sixty-eighth Supplemental Indenture, dated as of May 12, 2016, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on May 12, 2016, File No. 1-3543).							X	
4.14	Repayment Agreement between Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company) and The Dayton Power and Light Company, dated as of December 23, 1992, (filed with registrant's Annual Report on Form 10-K for the year ended December 31, 1992, File No. 1-1232).						X		
4.15	Unsecured Promissory Note between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and the Rural Utilities Service, dated as of October 14, 1998, (incorporated by reference to Exhibit 4 to registrant's Annual Report on Form 10-K for the year ended December 31, 1998, filed on March 8, 1999, File No. 1-3543).							X	
4.16	6.302% Subordinated Note between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Cinergy Corp., dated as of February 5, 2003, (incorporated by reference to Exhibit 4(yyy) to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2003, filed on May 12, 2003, File No. 1-3543).							X	
4.17	6.403% Subordinated Note between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Cinergy Corp., dated as of February 5, 2003, (incorporated by reference to Exhibit 4(zzz) to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2003, filed on May 12, 2003, File No. 1-3543).							X	
4.18	Contingent Value Obligation Agreement between Progress Energy, Inc. (formerly CP&L Energy, Inc.) and The Chase Manhattan Bank, as Trustee, dated as of November 30, 2000, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on December 1, 2000, File No. 1-3382).			X					
4.19	Form of 3.47% Series A Senior Notes due July 16, 2027 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on March 29, 2012, File No. 1-06196).								X
4.20	Form of 3.57% Series B Senior Notes due July 16, 2027 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on March 29, 2012, File No. 1-06196).								X
4.21	Form of 4.65% Senior Notes due 2043 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on August 1, 2013, File No. 1-06196).								X
4.22	Form of 4.10% Senior Notes due 2034 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on September 18, 2014, File No. 1-06196).								X
4.23	Form of 3.60% Senior Notes due 2025 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on September 14, 2015, File No. 1-06196).								X
4.24	Form of 3.64% Senior Notes due 2046 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on July 28, 2016, File No. 1-06196).								X
4.25	Form of 4.24% Series B Senior Notes due June 6, 2021 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on May 12, 2011, File No. 1-06196).								X
4.26	Indenture, dated as of April 1, 1993, between Piedmont and The Bank of New York Mellon Trust Company, N.A. (as successor to Citibank, N.A.), Trustee (incorporated by reference to Exhibit 4.1 to registrant's Registration Statement on Form S-3 filed on May 16, 1995, File No. 33-59369).								X
4.26.1	Second Supplemental Indenture, dated as of June 15, 2003, between Piedmont and Citibank, N.A., Trustee (incorporated by reference to Exhibit 4.3 to registrant's Registration Statement on Form S-3 filed on June 19, 2003, File No. 333-106268).								X

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.26.2								X
4.26.3								X
4.26.4								X
4.26.5								X
4.26.6								X
4.27								X
4.28								X
4.29								X
4.30								X
4.31								X
4.32								X
4.33								X
4.34								X
10.1								X

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.2		X						
10.3		X						
10.4								X
10.5								X
10.6		X						
10.7								X
10.8							X	
10.9	X							
10.10	X							
10.11**	X							

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.12	Engineering, Procurement and Construction Management Agreement between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Bechtel Power Corporation, dated as of December 15, 2008, (incorporated by reference to Item 1.01 to registrant's Current Report on Form 8-K filed on December 19, 2008, File Nos. 1-32853 and 1-3543). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)	X						X	
10.13**	Duke Energy Corporation Executive Severance Plan (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on January 13, 2011, File No. 1-32853).	X							
10.14	\$6,000,000,000 Five-Year Credit Agreement between Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Carolina Power and Light Company d/b/a Duke Energy Progress, Inc. and Florida Power Corporation, d/b/a Duke Energy Florida, Inc., as Borrowers, the lenders listed therein, Wells Fargo Bank, National Association, as Administrative Agent, Bank of America, N.A. and The Royal Bank of Scotland plc, as Co-Syndication Agents and Bank of China, New York Branch, Barclays Bank PLC, Citibank, N.A., Credit Suisse AG, Cayman Islands Branch, Industrial and Commercial Bank of China Limited, New York Branch, JPMorgan Chase Bank, N.A. and UBS Securities LLC, as Co-Documentation Agents, dated as of November 18, 2011, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on November 25, 2011, File Nos. 1-32853, 1-4928, 1-1232 and 1-3543).	X	X				X	X	
10.14.1	Amendment No. 1 and Consent between Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Duke Energy Progress, Inc., Duke Energy Florida, Inc., and Wells Fargo Bank, National Association, dated as of December 18, 2013, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on December 23, 2013, File Nos. 1-32853, 1-4928, 1-3382, 1-3274, 1-1232 and 1-3543).	X	X		X	X	X	X	
10.14.2	Amendment No. 2 and Consent between Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Duke Energy Progress, Inc., and Duke Energy Florida, Inc., the Lenders party hereto, the issuing Lenders party hereto, Wells Fargo Bank, National Association, as Administrative Agent and Swingline Lender, dated as of January 30, 2015, (incorporated by reference to Exhibit 10.1 of registrant's Current Report on Form 8-K filed on February 5, 2015, File Nos. 1-32853, 1-4928, 1-1232, 1-3543, 1-3382 and 1-3274).	X	X		X	X	X	X	
10.14.3	Amendment No. 3 and Consent, dated as of March 16, 2017, among the registrants, the Lenders party thereto, the issuing Lenders party thereto, and Wells Fargo Bank, National Association, as Administrative Agent and Swingline Lender (incorporated by reference to Exhibit 10.1 to registrants' Current Report on Form 8-K filed on March 17, 2017, File Nos. 1-32853, 1-04928, 1-03382, 1-03274, 1-01232, 1-03543, 1-06196).	X	X		X	X	X	X	X
10.15**	Duke Energy Corporation 2010 Long-Term Incentive Plan (incorporated by reference to Appendix A to registrant's Form DEF 14A filed on March 22, 2010, File No. 1-32853).	X							
10.15.1**	Amendment to Duke Energy Corporation 2010 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.3 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2012, filed on August 8, 2012, File No. 1-32853).	X							
10.16**	Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Appendix C to registrant's DEF 14A filed on March 26, 2015, File No. 1-32853).	X							
*10.16.1**	Amendment to Duke Energy Corporation 2015 Long-Term Incentive Plan.	X							

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.17**	Form of Performance Award Agreement of Duke Energy Corporation under the Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on February 18, 2016, File No. 1-32853).	X							
10.18**	Form of Restricted Stock Unit Award Agreement of Duke Energy Corporation under the Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.2 to registrant's Current Report on Form 8-K filed on February 18, 2016, File No. 1-32853).	X							
10.19**	Restricted Stock Unit Award Agreement (incorporated by reference to Exhibit 10.4 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).	X							
10.20**	Restricted Stock Unit Award Agreement (incorporated by reference to Exhibit 10.24 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2017 filed on February 21, 2018, File No. 1-32853).	X							
10.21**	Performance-Based Retention Award Agreement (incorporated by reference to Exhibit 10.2 to registrant's Current Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).	X							
10.22**	Performance Award Agreement (incorporated by reference to Exhibit 10.3 to registrant's Current Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).	X							
10.23**	Performance Award Agreement (incorporated by reference to Exhibit 10.27 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2017 filed on February 21, 2018, File No. 1-32853).	X							
10.24	Settlement Agreement between Duke Energy Corporation, the North Carolina Utilities Commission Staff and the North Carolina Public Staff, dated as of November 28, 2012, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on November 29, 2012, File No. 1-32853).	X							
10.25	Settlement Agreement between Duke Energy Corporation and the North Carolina Attorney General, dated as of December 3, 2012, (incorporated by reference Item 7.01 to registrant's Current Report on Form 8-K filed on December 3, 2012, File No. 1-32853).	X							
10.26**	Form of Change-in-Control Agreement (incorporated by reference to Exhibit 10.58 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2012, filed on March 1, 2013, File No. 1-32853).	X							
10.27**	Amended and Restated Duke Energy Corporation Executive Cash Balance Plan, dated as of January 1, 2014, (incorporated by reference to Exhibit 10.52 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2013, filed on February 28, 2014, File No. 1-32852).	X							
10.28	Purchase, Construction and Ownership Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Municipal Power Agency Number 3 and Exhibits, together with resolution, dated as of December 16, 1981, changing name to North Carolina Eastern Municipal Power Agency, amending letter, dated as of February 18, 1982, and amendment, dated as of February 24, 1982, (incorporated by reference to Exhibit 10(a) to registrant's File No. 33-25560).				X				
10.29	Operating and Fuel Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Municipal Power Agency Number 3 and Exhibits, together with resolution, dated as of December 16, 1981, changing name to North Carolina Eastern Municipal Power Agency, amending letters, dated as of August 21, 1981, and December 15, 1981, and amendment, dated as of February 24, 1982, (incorporated by reference to Exhibit 10(b) to registrant's File No. 33-25560).				X				

PART IV

Exhibit Number	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.30	Power Coordination Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Municipal Power Agency Number 3 and Exhibits, together with resolution, dated as of December 16, 1981, changing name to North Carolina Eastern Municipal Power Agency and amending letter, dated as of January 29, 1982, (incorporated by reference to Exhibit 10(c) to registrant's File No. 33-25560).			X				
10.31	Amendment, dated as of December 16, 1982, to Purchase, Construction and Ownership Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Eastern Municipal Power Agency (incorporated by reference to Exhibit 10(d) to registrant's File No. 33-25560).			X				
10.32**	Progress Energy, Inc. 2007 Equity Incentive Plan (incorporated by reference to Exhibit C to registrant's Form DEF 14A filed on March 30, 2007, File No. 1-15929).			X				
10.33	Precedent and Related Agreements between Duke Energy Florida, Inc. (formerly Florida Power Corporation d/b/a Progress Energy Florida, Inc. ("PEF")), Southern Natural Gas Company, Florida Gas Transmission Company ("FGT"), and BG LNG Services, LLC ("BG"), including: a) Precedent Agreement between Southern Natural Gas Company and PEF, dated as of December 2, 2004; b) Gas Sale and Purchase Contract between BG and PEF, dated as of December 1, 2004; c) Interim Firm Transportation Service Agreement by and between FGT and PEF, dated as of December 2, 2004; d) Letter Agreement between FGT and PEF, dated as of December 2, 2004, and Firm Transportation Service Agreement between FGT and PEF to be entered into upon satisfaction of certain conditions precedent; e) Discount Agreement between FGT and PEF, dated as of December 2, 2004; f) Amendment to Gas Sale and Purchase Contract between BG and PEF, dated as of January 28, 2005; and g) Letter Agreement between FGT and PEF, dated as of January 31, 2005, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K/A filed on March 15, 2005, File Nos. 1-15929 and 1-3274). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)			X	X			
10.34	Engineering, Procurement and Construction Agreement between Duke Energy Florida, Inc. (formerly Florida Power Corporation d/b/a/ Progress Energy Florida, Inc.), as owner, and a consortium consisting of Westinghouse Electric Company LLC and Stone & Webster, Inc., as contractor, for a two-unit AP1000 Nuclear Power Plant, dated as of December 31, 2008, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on March 2, 2009, File Nos. 1-15929 and 1-3274). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)			X	X			
10.35**	Employment Agreement between Duke Energy Corporation and Lynn J. Good, dated as of June 17, 2013, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 18, 2013, File No. 1-32853).							X
10.35.1**	Amendment to Employment Agreement between Duke Energy Corporation and Lynn J. Good, dated as of June 25, 2015, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 29, 2015, File No. 1-32853).							X
10.36**	Duke Energy Corporation Executive Short-Term Incentive Plan, effective February 25, 2013, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on May 7, 2013, File No. 1-32853).							X

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.37**	Duke Energy Corporation 2017 Director Compensation Program Summary (incorporated by reference to Exhibit 10.3 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2017 filed on August 3, 2017, File No. 1-32853).	X							
10.38**	Amended and Restated Duke Energy Corporation Executive Savings Plan, dated as of January 1, 2014, (incorporated by reference to Exhibit 10.82 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2013, filed on February 28, 2014, File No. 1-32853).	X							
10.38.1	Amendment to Duke Energy Corporation Executive Savings Plan, effective as of January 1, 2014 (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2017, filed on November 3, 2017, File No. 1-32853).	X							
10.39	Agreement between Duke Energy SAM, LLC, Duke Energy Ohio, Inc., Duke Energy Commercial Enterprise, Inc. and Dynegy Resource I, LLC, dated as of August 21, 2014, (incorporated by reference to Exhibit 10.61 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2014, filed on March 2, 2015, File No. 1-32853).	X					X		
10.40	Asset Purchase Agreement between Duke Energy Progress, Inc. and North Carolina Eastern Municipal Power Agency, dated as of September 5, 2014, (incorporated by reference to Exhibit 10.62 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2014, filed on March 2, 2015, File No. 1-32853).	X			X				
10.41	Change in Control Agreement between Duke Energy Corporation and Lloyd M. Yates, dated as of April 30, 2014, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on May 6, 2014, File No. 1-32853).	X							
10.42	Accelerated Stock Repurchase Program executed by Goldman, Sachs & Co., and JPMorgan Chase Bank, N.A. on April 6, 2015, under an agreement with Duke Energy Corporation (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on April 6, 2015, File No. 1-32853).	X							
10.43	Plea Agreement between Duke Energy Corporation and the Court of the Eastern District of North Carolina in connection with the May 14, 2015, Dan River Grand Jury Settlement (incorporated by reference to Exhibit 10.3 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2015, filed on August 7, 2015, File No. 1-32853).	X							
10.44	Plea Agreement between Duke Energy Corporation and the Court of the Eastern District of North Carolina in connection with the May 14, 2015, Dan River Grand Jury Settlement (incorporated by reference to Exhibit 10.4 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2015, filed on August 7, 2015, File No. 1-32853).	X							
10.45	\$1,500,000,000 Amended and Restated Term Loan Agreement among Duke Energy Corporation, as Borrower, the Lenders listed therein, The Bank of Tokyo-Mitsubishi UFJ, Ltd., as Administrative Agent, and The Bank of Tokyo-Mitsubishi UFJ, Ltd., Santander Bank, N.A. and TD Bank, N.A., as Joint Lead Arrangers and Bookrunners, dated as of August 1, 2016, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2016, filed on August 4, 2016, File No. 1-32853).	X							
10.46	Purchase and Sale Agreement by and among Duke Energy International Group S.à.r.l., Duke Energy International Brazil Holdings S.à.r.l. and China Three Gorges (Luxembourg) Energy S.à.r.l., dated as of October 10, 2016, (incorporated by reference to Exhibit 2.1 to registrant's Current Report on Form 8-K filed on October 13, 2016, File No. 1-32853).	X							

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.47	Purchase and Sale Agreement by and among Duke Energy Brazil Holdings II, C.V., Duke Energy International Uruguay Investments SRL, Duke Energy International Group S.à.r.l., Duke Energy International España Holdings SL, Duke Energy International Investments No. 2 Ltd., ISQ Enerlam Aggregator, L.P., and Enerlam (UK) Holdings Ltd., dated as of October 10, 2016, (incorporated by reference to Exhibit 2.2. to registrant's Current Report on Form 8-K filed on October 13, 2016, File No. 1-32853).	X							
10.48**	Amended and Restated Employment Agreement, dated May 25, 2012, between Piedmont Natural Gas Company, Inc. and Franklin H. Yoho (incorporated by reference to Exhibits 10.1 and 10.2 to Piedmont Natural Gas Company, Inc.'s Quarterly Report on Form 10-Q for the quarter ended July 31, 2012, filed on September 7, 2012, File No. 1-06196).	X							
10.49**	Severance Agreements with Thomas E. Skains and Franklin H. Yoho, dated September 4, 2007, (incorporated by reference to Exhibits 10.2 and 10.2a to Piedmont Natural Gas Company, Inc.'s Quarterly Report on Form 10-Q for the quarter ended July 31, 2007, filed on September 7, 2007, File No. 1-06196).	X							
10.50**	Piedmont Natural Gas Company, Inc. Incentive Compensation Plan (incorporated by reference to Exhibit 10.64 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).	X							
10.50.1**	First Amendment to Piedmont Natural Gas Company, Inc. Incentive Compensation Plan (incorporated by reference to Exhibit 4.2 to registrant's Registration Statement on Form S-8 filed on October 3, 2016, File No. 1-32853).	X							
10.51**	Form of Performance Unit Award Agreement (incorporated by reference to Exhibit 10.4 to registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 2016, filed on March 9, 2016, File No. 1-06196).	X							
10.52**	Waiver of Certain Rights to Terminate for Good Reason between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.66 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).	X							
10.53**	Notice of Non-Renewal of Employment Agreement between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.67 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).	X							
10.54**	Retention Award Agreement, dated as of October 24, 2015, between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.68 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).	X							
10.55	\$1,000,000,000 Credit Agreement, dated as of June 14, 2017, among Duke Energy Corporation, the lenders listed therein, The Bank of Nova Scotia, as Administrative Agent, PNC Bank, National Association, Sumitomo Mitsui Banking Corporation and TD Bank, N.A., as CO-Syndication Agents, and Bank of China, New York Branch, BNP Paribas, Santander Bank, N.A. and U.S. Bank National Association, as Co-Documentation Agents (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on June 14, 2017, File No. 1-32853).	X							
10.56	\$250,000,000 Term Loan Credit Agreement, dated as of June 14, 2017, among Piedmont Natural Gas Company, Inc. the lenders listed therein, U.S. Bank National Association, as Administrative Agent, Branch Banking and Trust Company and Regions Bank, as Co-Syndication Agents and PNC Bank, National Association, as Documentation Agent (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on June 14, 2017, File No. 1-06196).								X

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.56.1	Amendment No. 1 to the Term Loan Credit Agreement, dated as of September 13, 2018, among Piedmont Natural Gas Company, Inc., the lenders listed therein, U.S. Bank National Association, as Administrative Agent, and PNC Bank, National Association, Bank of New York Mellon and KeyBank, National Association, as Co-Documentation Agents (incorporated by reference to Exhibit 10.1 to registrant's Quarterly Report on Form 10-Q filed on November 2, 2018, File No. 1-32853).	X							
10.57	Note Purchase Agreement, dated as of May 6, 2011, among Piedmont Natural Gas Company, Inc. and the Purchasers party thereto (incorporated by reference to Exhibit 10 to registrant's Current Report on Form 8-K filed on May 12, 2011, File No. 1-06196).								X
10.58	Amended and Restated Limited Liability Company Agreement of Constitution Pipeline Company, LLC dated April 9, 2012, by and among Williams Partners Operating LLC and Cabot Pipeline Holdings LLC (incorporated by reference to Exhibit 10.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 2013, filed on March 6, 2013, File No. 1-06196).								X
10.58.1	First Amendment to Amended and Restated Limited Liability Company Agreement of Constitution Pipeline Company, LLC, dated as of November 9, 2012, by and among Constitution Pipeline Company, LLC, Williams Partners Operating LLC, Cabot Pipeline Holdings LLC, and Piedmont Constitution Pipeline Company, LLC (incorporated by reference to Exhibit 10.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 2013, filed on March 6, 2013, File No. 1-06196).								X
10.58.2	Second Amendment to Amended and Restated Limited Liability Company Agreement of Constitution Pipeline Company, LLC, dated as of May 29, 2013, by and among Constitution Pipeline Company, LLC, Williams Partners Operating LLC, Cabot Pipeline Holdings LLC, Piedmont Constitution Pipeline Company, LLC, and Capitol Energy Ventures Corp. (incorporated by reference to Exhibit 99.1 to registrant's Current Report on Form 8-K filed on September 4, 2013, File No. 1-06196).								X
10.59	Second Amended and Restated Limited Liability Company Agreement of SouthStar Energy Services LLC, dated as of September 1, 2013, by and between Georgia Natural Gas Company and Piedmont Energy Company (incorporated by reference to Exhibit 10.39 to registrant's Annual Report on Form 10-K for the year ended October 31, 2013, filed on December 23, 2013, File No. 1-06196).								X
10.60	Limited Liability Company Agreement of Atlantic Coast Pipeline, LLC, dated as of September 2, 2014, by and between Dominion Atlantic Coast Pipeline, LLC, Duke Energy ACP, LLC, Piedmont ACP Company, LLC, and Maple Enterprise Holdings, Inc. (incorporated by reference to Exhibit 10.35 to registrant's Annual Report on Form 10-K for the year ended October 31, 2014, filed on December 23, 2014, File No. 1-06196).								X
*21	List of Subsidiaries	X							
*23.1.1	Consent of Independent Registered Public Accounting Firm.	X							
*23.1.2	Consent of Independent Registered Public Accounting Firm.		X						
*23.1.3	Consent of Independent Registered Public Accounting Firm.				X				
*23.1.4	Consent of Independent Registered Public Accounting Firm.					X			
*23.1.5	Consent of Independent Registered Public Accounting Firm.						X		
*23.1.6	Consent of Independent Registered Public Accounting Firm.							X	
*23.1.7	Consent of Independent Registered Public Accounting Firm.								X
*24.1	Power of attorney authorizing Lynn J. Good and others to sign the Annual Report on behalf of the registrant and certain of its directors and officers.	X							

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
*24.2	Certified copy of resolution of the Board of Directors of the registrant authorizing power of attorney.	X							
*31.1.1	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	X							
*31.1.2	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.		X						
*31.1.3	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.			X					
*31.1.4	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X				
*31.1.5	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.					X			
*31.1.6	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.						X		
*31.1.7	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.							X	
*31.1.8	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.								X
*31.2.1	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	X							
*31.2.2	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.		X						
*31.2.3	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.			X					
*31.2.4	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X				
*31.2.5	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.					X			
*31.2.6	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.						X		
*31.2.7	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.							X	
*31.2.8	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.								X
*32.1.1	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.	X							
*32.1.2	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.		X						
*32.1.3	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.			X					
*32.1.4	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.				X				
*32.1.5	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.					X			
*32.1.6	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.						X		
*32.1.7	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.							X	

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
*32.1.8	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.								X
*32.2.1	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.	X							
*32.2.2	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.		X						
*32.2.3	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.			X					
*32.2.4	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.				X				
*32.2.5	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.					X			
*32.2.6	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.						X		
*32.2.7	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.							X	
*32.2.8	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.								X
*101.INS	XBRL Instance Document	X	X	X	X	X	X	X	X
*101.SCH	XBRL Taxonomy Extension Schema Document	X	X	X	X	X	X	X	X
*101.CAL	XBRL Taxonomy Calculation Linkbase Document	X	X	X	X	X	X	X	X
*101.LAB	XBRL Taxonomy Label Linkbase Document	X	X	X	X	X	X	X	X
*101.PRE	XBRL Taxonomy Presentation Linkbase Document	X	X	X	X	X	X	X	X
*101.DEF	XBRL Taxonomy Definition Linkbase Document	X	X	X	X	X	X	X	X

The total amount of securities of each respective registrant or its subsidiaries authorized under any instrument with respect to long-term debt not filed as an exhibit does not exceed 10 percent of the total assets of such registrant and its subsidiaries on a consolidated basis. Each registrant agrees, upon request of the SEC, to furnish copies of any or all of such instruments to it.

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PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrants have duly caused this report to be signed on their behalf by the undersigned, thereunto duly authorized.

Date: February 28, 2019

DUKE ENERGY CORPORATION
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chairman, President and Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chairman, President and Chief Executive Officer (Principal Executive Officer and Director)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:

Michael G. Browning*	James B. Hyler, Jr.*
Annette K. Clayton*	William E. Kennard*
Theodore F. Craver, Jr.*	E. Marie McKee*
Robert M. Davis*	Charles W. Moorman IV*
Daniel R. DiMicco*	Carlos A. Saladrigas*
John H. Forsgren*	Thomas E. Skains*
Lynn J. Good*	William E. Webster, Jr.*
John T. Herron*	

Steven K. Young, by signing his name hereto, does hereby sign this document on behalf of the registrant and on behalf of each of the above-named persons previously indicated by asterisk (*) pursuant to a power of attorney duly executed by the registrant and such persons, filed with the Securities and Exchange Commission as an exhibit hereto.

By: /s/ STEVEN K. YOUNG
Attorney-In-Fact

Date: February 28, 2019

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PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 28, 2019

DUKE ENERGY CAROLINAS, LLC
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ LYNN J. GOOD
Lynn J. Good
 - /s/ DHIAA M. JAMIL
Dhiaa M. Jamil
 - /s/ LLOYD M. YATES
Lloyd M. Yates

Date: February 28, 2019

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PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 28, 2019

PROGRESS ENERGY, INC.
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ LYNN J. GOOD
Lynn J. Good
 - /s/ JULIA S. JANSON
Julia S. Janson

Date: February 28, 2019

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PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 28, 2019

DUKE ENERGY PROGRESS, LLC
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ DOUGLAS F ESAMANN
Douglas F Esamann
 - /s/ LYNN J. GOOD
Lynn J. Good
 - /s/ DHIAA M. JAMIL
Dhiala M. Jamil
 - /s/ JULIA S. JANSON
Julia S. Janson
 - /s/ LLOYD M. YATES
Lloyd M. Yates

Date: February 28, 2019

PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 28, 2019

DUKE ENERGY FLORIDA, LLC
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ DOUGLAS F ESAMANN
Douglas F Esamann
 - /s/ LYNN J. GOOD
Lynn J. Good
 - /s/ DHIAA M. JAMIL
Dhiaa M. Jamil
 - /s/ JULIA S. JANSON
Julia S. Janson
 - /s/ LLOYD M. YATES
Lloyd M. Yates

Date: February 28, 2019

PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 28, 2019

DUKE ENERGY OHIO, INC.
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ DOUGLAS F ESAMANN
Douglas F Esamann
 - /s/ LYNN J. GOOD
Lynn J. Good
 - /s/ DHIAA M. JAMIL
Dhiala M. Jamil

Date: February 28, 2019

PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 28, 2019

DUKE ENERGY INDIANA, LLC
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ DOUGLAS F ESAMANN
Douglas F Esamann
 - /s/ KELLEY A. KARN
Kelley A. Karn
 - /s/ STAN PINEGAR
Stan Pinegar

Date: February 28, 2019

PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 28, 2019

PIEDMONT NATURAL GAS COMPANY, INC.
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ LYNN J. GOOD
Lynn J. Good
 - /s/ DHIAA M. JAMIL
Dhiala M. Jamil
 - /s/ FRANKLIN H. YOHO
Franklin H. Yoho

Date: February 28, 2019

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--/A

UNITED STATES SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

FORM 10-K


(Mark One)

☒ **ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

For the fiscal period ended December 31, 2019 or

☐ **TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

For the transition period from _____ to _____

Commission file number	Registrant, State of Incorporation or Organization, Address of Principal Executive Offices and Telephone Number	IRS Employer Identification No.
		
1-32853	DUKE ENERGY CORPORATION (a Delaware corporation) 550 South Tryon Street Charlotte, North Carolina 28202-1803 704-382-3853	20-2777218
1-4928	DUKE ENERGY CAROLINAS, LLC (a North Carolina limited liability company) 526 South Church Street Charlotte, North Carolina 28202-1803 704-382-3853	56-0205520
1-15929	PROGRESS ENERGY, INC. (a North Carolina corporation) 410 South Wilmington Street Raleigh, North Carolina 27601-1748 704-382-3853	56-2155481
1-3382	DUKE ENERGY PROGRESS, LLC (a North Carolina limited liability company) 410 South Wilmington Street Raleigh, North Carolina 27601-1748 704-382-3853	56-0165465
1-3274	DUKE ENERGY FLORIDA, LLC (a Florida limited liability company) 299 First Avenue North St. Petersburg, Florida 33701 704-382-3853	59-0247770
1-1232	DUKE ENERGY OHIO, INC. (an Ohio corporation) 139 East Fourth Street Cincinnati, Ohio 45202 704-382-3853	31-0240030
1-3543	DUKE ENERGY INDIANA, LLC (an Indiana limited liability company) 1000 East Main Street Plainfield, Indiana 46168 704-382-3853	35-0594457
1-6196	PIEDMONT NATURAL GAS COMPANY, INC. (a North Carolina corporation) 4720 Piedmont Row Drive Charlotte, North Carolina 28210 704-364-3120	56-0556998

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SECURITIES REGISTERED PURSUANT TO SECTION 12(b) OF THE ACT:

<u>Registrant</u>	<u>Title of each class</u>	<u>Trading symbols</u>	<u>Name of each exchange on which registered</u>
Duke Energy Corporation (Duke Energy)	Common Stock, \$0.001 par value	DUK	New York Stock Exchange LLC
Duke Energy	5.125% Junior Subordinated Debentures due January 15, 2073	DUKH	New York Stock Exchange LLC
Duke Energy	5.625% Junior Subordinated Debentures due September 15, 2078	DUKB	New York Stock Exchange LLC
Duke Energy	Depository Shares, each representing a 1/1,000th interest in a share of 5.75% Series A Cumulative Redeemable Perpetual Preferred Stock, par value \$0.001 per share	DUK PRA	New York Stock Exchange LLC

SECURITIES REGISTERED PURSUANT TO SECTION 12(g) OF THE ACT: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.

Duke Energy	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Duke Energy Florida, LLC (Duke Energy Florida)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Duke Energy Carolinas, LLC (Duke Energy Carolinas)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Duke Energy Ohio, Inc. (Duke Energy Ohio)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Progress Energy, Inc. (Progress Energy)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Duke Energy Indiana, LLC (Duke Energy Indiana)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Duke Energy Progress, LLC (Duke Energy Progress)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Piedmont Natural Gas Company, Inc. (Piedmont)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Exchange Act.

Yes ☐ No ☒ (Response applicable to all registrants.)

Indicate by check mark whether the registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes ☒ No ☐

Indicate by check mark whether the registrants have submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes ☒ No ☐

Indicate by check mark whether Duke Energy is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.: Large accelerated filer ☒ Accelerated filer ☐ Non-accelerated filer ☐ Smaller reporting company ☐ Emerging growth company ☐

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether each of Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont is a large accelerated filer, accelerated filer, non-accelerated filer, smaller reporting company, or emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.: Large accelerated filer ☐ Accelerated filer ☐ Non-accelerated filer ☒ Smaller reporting company ☐ Emerging growth company ☐

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether each of the registrants is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes ☐ No ☒

Estimated aggregate market value of the common equity held by nonaffiliates of Duke Energy at June 30, 2019. \$ 64,230,558,771

Number of shares of Common Stock, \$0.001 par value, outstanding at January 31, 2020. 733,321,965

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the Duke Energy definitive proxy statement for the 2020 Annual Meeting of the Shareholders or an amendment to this Annual Report are incorporated by reference into PART III, Items 10, 11 and 13 hereof.

This combined Form 10-K is filed separately by eight registrants: Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont (collectively the Duke Energy Registrants). Information contained herein relating to any individual registrant is filed by such registrant solely on its own behalf. Each registrant makes no representation as to information relating exclusively to the other registrants.

--/A

Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont meet the conditions set forth in General Instructions I(1)(a) and (b) of Form 10-K and are, therefore, filing this Form 10-K with the reduced disclosure format specified in General Instructions I(2) of Form 10-K.

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TABLE OF CONTENTS

TABLE OF CONTENTS

FORM 10-K FOR THE YEAR ENDED December 31, 2019

Item	Page
CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING INFORMATION	
GLOSSARY OF TERMS	
PART I.	
1. BUSINESS	9
DUKE ENERGY	9
GENERAL	9
BUSINESS SEGMENTS	9
EMPLOYEES	21
EXECUTIVE OFFICERS	22
ENVIRONMENTAL MATTERS	22
DUKE ENERGY CAROLINAS	23
PROGRESS ENERGY	23
DUKE ENERGY PROGRESS	23
DUKE ENERGY FLORIDA	24
DUKE ENERGY OHIO	24
DUKE ENERGY INDIANA	24
PIEDMONT	24
1A. RISK FACTORS	24
1B. UNRESOLVED STAFF COMMENTS	32
2. PROPERTIES	33
3. LEGAL PROCEEDINGS	37
4. MINE SAFETY DISCLOSURES	37
PART II.	
5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES	38
6. SELECTED FINANCIAL DATA	39
7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS	40
7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK	75
8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA	76
9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE	243
9A. CONTROLS AND PROCEDURES	244
PART III.	
10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE	246
11. EXECUTIVE COMPENSATION	246
12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS	246
13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE	247
14. PRINCIPAL ACCOUNTING FEES AND SERVICES	247
PART IV.	
15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES	248
EXHIBIT INDEX	E-1
SIGNATURES	E-32

FORWARD LOOKING STATEMENTS

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING INFORMATION

This document includes forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. Forward-looking statements are based on management's beliefs and assumptions and can often be identified by terms and phrases that include "anticipate," "believe," "intend," "estimate," "expect," "continue," "should," "could," "may," "plan," "project," "predict," "will," "potential," "forecast," "target," "guidance," "outlook" or other similar terminology. Various factors may cause actual results to be materially different than the suggested outcomes within forward-looking statements; accordingly, there is no assurance that such results will be realized. These factors include, but are not limited to:

- State, federal and foreign legislative and regulatory initiatives, including costs of compliance with existing and future environmental requirements, including those related to climate change, as well as rulings that affect cost and investment recovery or have an impact on rate structures or market prices;
- The extent and timing of costs and liabilities to comply with federal and state laws, regulations and legal requirements related to coal ash remediation, including amounts for required closure of certain ash impoundments, are uncertain and difficult to estimate;
- The ability to recover eligible costs, including amounts associated with coal ash impoundment retirement obligations and costs related to significant weather events, and to earn an adequate return on investment through rate case proceedings and the regulatory process;
- The costs of decommissioning nuclear facilities could prove to be more extensive than amounts estimated and all costs may not be fully recoverable through the regulatory process;
- Costs and effects of legal and administrative proceedings, settlements, investigations and claims;
- Industrial, commercial and residential growth or decline in service territories or customer bases resulting from sustained downturns of the economy and the economic health of our service territories or variations in customer usage patterns, including energy efficiency efforts and use of alternative energy sources, such as self-generation and distributed generation technologies;
- Federal and state regulations, laws and other efforts designed to promote and expand the use of energy efficiency measures and distributed generation technologies, such as private solar and battery storage, in Duke Energy service territories could result in customers leaving the electric distribution system, excess generation resources as well as stranded costs;
- Advancements in technology;
- Additional competition in electric and natural gas markets and continued industry consolidation;
- The influence of weather and other natural phenomena on operations, including the economic, operational and other effects of severe storms, hurricanes, droughts, earthquakes and tornadoes, including extreme weather associated with climate change;
- The ability to successfully operate electric generating facilities and deliver electricity to customers including direct or indirect effects to the company resulting from an incident that affects the United States electric grid or generating resources;
- The ability to obtain the necessary permits and approvals and to complete necessary or desirable pipeline expansion or infrastructure projects in our natural gas business;
- Operational interruptions to our natural gas distribution and transmission activities;
- The availability of adequate interstate pipeline transportation capacity and natural gas supply;
- The impact on facilities and business from a terrorist attack, cybersecurity threats, data security breaches, operational accidents, information technology failures or other catastrophic events, such as fires, explosions, pandemic health events or other similar occurrences;
- The inherent risks associated with the operation of nuclear facilities, including environmental, health, safety, regulatory and financial risks, including the financial stability of third-party service providers;
- The timing and extent of changes in commodity prices and interest rates and the ability to recover such costs through the regulatory process, where appropriate, and their impact on liquidity positions and the value of underlying assets;
- The results of financing efforts, including the ability to obtain financing on favorable terms, which can be affected by various factors, including credit ratings, interest rate fluctuations, compliance with debt covenants and conditions and general market and economic conditions;
- Credit ratings of the Duke Energy Registrants may be different from what is expected;
- Declines in the market prices of equity and fixed-income securities and resultant cash funding requirements for defined benefit pension plans, other post-retirement benefit plans and nuclear decommissioning trust funds;
- Construction and development risks associated with the completion of the Duke Energy Registrants' capital investment projects, including risks related to financing, obtaining and complying with terms of permits, meeting construction budgets and schedules and satisfying operating and environmental performance standards, as well as the ability to recover costs from customers in a timely manner, or at all;
- Changes in rules for regional transmission organizations, including changes in rate designs and new and evolving capacity markets, and risks related to obligations created by the default of other participants;
- The ability to control operation and maintenance costs;
- The level of creditworthiness of counterparties to transactions;
- The ability to obtain adequate insurance at acceptable costs;

FORWARD LOOKING STATEMENTS

- Employee workforce factors, including the potential inability to attract and retain key personnel;
- The ability of subsidiaries to pay dividends or distributions to Duke Energy Corporation holding company (the Parent);
- The performance of projects undertaken by our nonregulated businesses and the success of efforts to invest in and develop new opportunities;
- The effect of accounting pronouncements issued periodically by accounting standard-setting bodies;
- The impact of United States tax legislation to our financial condition, results of operations or cash flows and our credit ratings;
- The impacts from potential impairments of goodwill or equity method investment carrying values; and
- The ability to implement our business strategy, including enhancing existing technology systems.

Additional risks and uncertainties are identified and discussed in the Duke Energy Registrants' reports filed with the SEC and available at the SEC's website at sec.gov. In light of these risks, uncertainties and assumptions, the events described in the forward-looking statements might not occur or might occur to a different extent or at a different time than described. Forward-looking statements speak only as of the date they are made and the Duke Energy Registrants expressly disclaim an obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

Glossary of Terms

The following terms or acronyms used in this Form 10-K are defined below:

Term or Acronym	Definition
2013 Settlement	Revised and Restated Stipulation and Settlement Agreement approved in November 2013 among Duke Energy Florida, the Florida Office of Public Counsel and other customer advocates
2017 Settlement	Second Revised and Restated Settlement Agreement in 2017 among Duke Energy Florida, the Florida Office of Public Counsel and other customer advocates, which replaces and supplants the 2013 Settlement
ACE	Affordable Clean Energy
ACP	Atlantic Coast Pipeline, LLC, a limited liability company owned by Dominion, Duke Energy and Southern Company Gas
ACP pipeline	The approximately 600-mile proposed interstate natural gas pipeline
AFUDC	Allowance for funds used during construction
AFS	Available for Sale
ALJ	Administrative Law Judge
AMI	Advanced Metering Infrastructure
AMT	Alternative Minimum Tax
AOCI	Accumulated Other Comprehensive Income (Loss)
ARO	Asset Retirement Obligation
ATM	At-the-market
Audit Committee	Audit Committee of the Board of Directors
Beckjord	Beckjord Generating Station
Belews Creek	Belews Creek Steam Station
Bison	Bison Insurance Company Limited
Board of Directors	Duke Energy Board of Directors
Brunswick	Brunswick Nuclear Plant
Cardinal	Cardinal Pipeline Company, LLC
Catawba	Catawba Nuclear Station
CC	Combined Cycle
CCR	Coal Combustion Residuals
Cinergy	Cinergy Corp. (collectively with its subsidiaries)
Citrus County CC	Citrus County Combined Cycle Facility
CO ₂	Carbon Dioxide
Coal Ash Act	North Carolina Coal Ash Management Act of 2014
the Company	Duke Energy Corporation and its subsidiaries
Constitution	Constitution Pipeline Company, LLC
CPCN	Certificate of Public Convenience and Necessity
CRC	Cinergy Receivables Company LLC
Crystal River Unit 3	Crystal River Unit 3 Nuclear Plant
CWA	Clean Water Act

DATC	Duke-American Transmission Co.
D.C. Circuit Court	U.S. Court of Appeals for the District of Columbia
DEFR	Duke Energy Florida Receivables, LLC
Deloitte	Deloitte & Touche LLP, and the member firms of Deloitte Touche Tohmatsu and their respective affiliates
DEPR	Duke Energy Progress Receivables, LLC
DERF	Duke Energy Receivables Finance Company, LLC
DETM	Duke Energy Trading and Marketing, LLC
DOE	U.S. Department of Energy
Dominion	Dominion Energy, Inc.
DRIP	Dividend Reinvestment Program
Dth	Dekatherms
Duke Energy	Duke Energy Corporation (collectively with its subsidiaries)
Duke Energy Carolinas	Duke Energy Carolinas, LLC
Duke Energy Florida	Duke Energy Florida, LLC
Duke Energy Indiana	Duke Energy Indiana, LLC
Duke Energy Kentucky	Duke Energy Kentucky, Inc.
Duke Energy Ohio	Duke Energy Ohio, Inc.
Duke Energy Progress	Duke Energy Progress, LLC
Duke Energy Registrants	Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont
East Bend	East Bend Generating Station
EE	Energy efficiency
EPA	U.S. Environmental Protection Agency
EPC	Engineering, Procurement and Construction agreement
EPS	Earnings Per Share
ETR	Effective tax rate
Exchange Act	Securities Exchange Act of 1934
FASB	Financial Accounting Standards Board
FERC	Federal Energy Regulatory Commission
FES	FirstEnergy Solutions Corp.
Form S-3	Registration statement
FPSC	Florida Public Service Commission
FTR	Financial transmission rights
Fluor	Fluor Enterprises, Inc.
FV-NI	Fair value through net income
GAAP	Generally Accepted Accounting Principles in the United States
GAAP Reported EPS	Diluted EPS Available to Duke Energy Corporation common stockholders
GHG	Greenhouse Gas
GWh	Gigawatt-hours

GLOSSARY OF TERMS

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Hardy Storage	Hardy Storage Company, LLC
Harris	Shearon Harris Nuclear Plant
HLBV	Hypothetical Liquidation at Book Value
IGCC	Integrated Gasification Combined Cycle
IMPA	Indiana Municipal Power Agency
IMR	Integrity Management Rider
IRP	Integrated Resource Plans
IRS	Internal Revenue Service
ISO	Independent System Operator
ITC	Investment Tax Credit
IURC	Indiana Utility Regulatory Commission
Investment Trusts	Grantor trusts of Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana
KO Transmission	KO Transmission Company
KPSC	Kentucky Public Service Commission
LIBOR	London Interbank Offered Rate
LLC	Limited Liability Company
McGuire	McGuire Nuclear Station
MGP	Manufactured gas plant
MISO	Midcontinent Independent System Operator, Inc.
MMBtu	Million British Thermal Unit
MTBE	Methyl tertiary butyl ether
MTEP	MISO Transmission Expansion Planning
MW	Megawatt
MWh	Megawatt-hour
NCDEQ	North Carolina Department of Environmental Quality
NCEMC	North Carolina Electric Membership Corporation
NCEMPA	North Carolina Eastern Municipal Power Agency
NCUC	North Carolina Utilities Commission
NDTF	Nuclear decommissioning trust funds
New Source Review	Clean Air Act program that requires industrial facilities to install modern pollution control equipment when they are built or when making a change that increases emissions significantly
NMC	National Methanol Company
NOL	Net operating loss
NO _x	Nitrogen oxide
NPNS	Normal purchase/normal sale
NRC	U.S. Nuclear Regulatory Commission
NYSE	New York Stock Exchange
Oconee	Oconee Nuclear Station
OPEB	Other Post-Retirement Benefit Obligations

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GLOSSARY OF TERMS

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OPEB Assets	Other post-retirement plan assets are comprised of the Retirement Plan of Piedmont 401(h) Medical Plan, and the following VEBA Trusts: Duke Energy Corporation Employee Benefits Trust, Piedmont Natural Gas Company 501(c)(9) Trust for Retired Bargaining Unit Employees and the Piedmont Natural Gas Company 501(c)(9) Trust for Retired Non-Bargaining Unit Employees
ORS	Office of Regulatory Staff
OTTI	Other-than-temporary impairment
OVEC	Ohio Valley Electric Corporation
the Parent	Duke Energy Corporation holding company
PGA	Purchased Gas Adjustments
PHMSA	Pipeline and Hazardous Materials Safety Administration
Piedmont	Piedmont Natural Gas Company, Inc.
Pine Needle	Pine Needle LNG Company, LLC
Pioneer	Pioneer Transmission, LLC
PJM	PJM Interconnection, LLC
PMPA	Piedmont Municipal Power Agency
PPA	Purchase Power Agreement
Progress Energy	Progress Energy, Inc.
PSCSC	Public Service Commission of South Carolina
PTC	Production Tax Credits
PUCO	Public Utilities Commission of Ohio
PURPA	Public Utility Regulatory Policies Act of 1978
QF	Qualifying Facility
RCA	Revolving Credit Agreement
RFP	Requests for Proposal
REC	Renewable Energy Certificate
REC Solar	REC Solar Corp.
Relative TSR	TSR of Duke Energy stock relative to a predefined peer group
Robinson	Robinson Nuclear Plant
RSU	Restricted Stock Unit
RTO	Regional Transmission Organization
Sabal Trail	Sabal Trail Transmission, LLC
SAFSTOR	A method of decommissioning in which a nuclear facility is placed and maintained in a condition that allows the facility to be safely stored and subsequently decontaminated to levels that permit release for unrestricted use
SEC	Securities and Exchange Commission
SELC	Southern Environmental Law Center
Segment Income	Income from continuing operations net of income attributable to noncontrolling interests and preferred stock dividends
SO ₂	Sulfur dioxide
Spectra Capital	Spectra Energy Capital, LLC
S&P	Standard & Poor's Rating Services
State utility commissions	NCUC, PSCSC, FPSC, PUCO, IURC, KPSC and TPUC (Collectively)

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GLOSSARY OF TERMS

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State electric utility commissions	NCUC, PSCSC, FPSC, PUCO, IURC and KPSC (Collectively)
State gas utility commissions	NCUC, PSCSC, PUCO, TPUC and KPSC (Collectively)
Subsidiary Registrants	Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont
Sutton	L.V. Sutton Combined Cycle Plant
the Tax Act	Tax Cuts and Jobs Act
TPUC	Tennessee Public Utility Commission
TSR	Total shareholder return
U.S.	United States
VEBA	Voluntary Employees' Beneficiary Association
VIE	Variable Interest Entity
WACC	Weighted Average Cost of Capital
WNA	Weather normalization adjustment
W.S. Lee CC	William States Lee Combined Cycle Facility
WVPA	Wabash Valley Power Association, Inc.

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BUSINESS

ITEM 1. BUSINESS

DUKE ENERGY

General

Duke Energy was incorporated on May 3, 2005, and is an energy company headquartered in Charlotte, North Carolina, subject to regulation by the FERC and other regulatory agencies listed below. Duke Energy operates in the U.S. primarily through its direct and indirect subsidiaries. Certain Duke Energy subsidiaries are also Subsidiary Registrants, including Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont. When discussing Duke Energy's consolidated financial information, it necessarily includes the results of its separate Subsidiary Registrants, which along with Duke Energy, are collectively referred to as the Duke Energy Registrants.

The Duke Energy Registrants electronically file reports with the SEC, including Annual Reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, proxy statements and amendments to such reports.

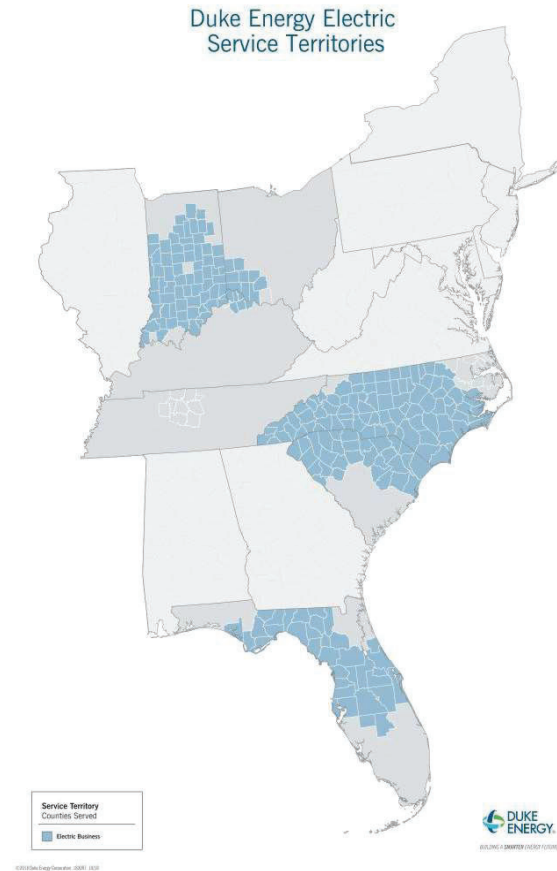
The SEC maintains an internet site that contains reports, proxy and information statements and other information regarding issuers that file electronically with the SEC at sec.gov. Additionally, information about the Duke Energy Registrants, including reports filed with the SEC, is available through Duke Energy's website at duke-energy.com. Such reports are accessible at no charge and are made available as soon as reasonably practicable after such material is filed with or furnished to the SEC.

Business Segments

Duke Energy's segment structure includes three reportable business segments: Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables. The remainder of Duke Energy's operations is presented as Other. Duke Energy's chief operating decision-maker routinely reviews financial information about each of these business segments in deciding how to allocate resources and evaluate the performance of the business. For additional information on each of these business segments, including financial and geographic information, see Note 3 to the Consolidated Financial Statements, "Business Segments." The following sections describe the business and operations of each of Duke Energy's business segments, as well as Other.

ELECTRIC UTILITIES AND INFRASTRUCTURE

Electric Utilities and Infrastructure conducts operations primarily through the regulated public utilities of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida, Duke Energy Indiana and Duke Energy Ohio. Electric Utilities and Infrastructure provides retail electric service through the generation, transmission, distribution and sale of electricity to approximately 7.8 million customers within the Southeast and Midwest regions of the U.S. The service territory is approximately 91,000 square miles across six states with a total estimated population of 25 million people. The operations include electricity sold wholesale to municipalities, electric cooperative utilities and other load-serving entities. Electric Utilities and Infrastructure is also a joint owner in certain electric transmission projects. Electric Utilities and Infrastructure has a 50% ownership interest in DATC, a partnership with American Transmission Company, formed to design, build and operate transmission infrastructure. DATC owns 72% of the transmission service rights to Path 15, an 84-mile transmission line in central California. Electric Utilities and Infrastructure also has a 50% ownership interest in Pioneer which builds, owns and operates electric transmission facilities in North America. The following map shows the service territory for Electric Utilities and Infrastructure as of December 31, 2019.



The electric operations and investments in projects are subject to the rules and regulations of the FERC, the NRC, the NCUC, the PSCSC, the FPSC, the IURC, the PUCO and the KPSC.

The following table represents the distribution of billed sales by customer class for the year ended December 31, 2019.

	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Residential	32%	27%	49%	37%	29%
General service	33%	23%	37%	38%	26%
Industrial	24%	15%	7%	23%	32%
Total retail sales	89%	65%	93%	98%	87%
Wholesale and other sales	11%	35%	7%	2%	13%
Total sales	100%	100%	100%	100%	100%

The number of residential and general service customers within the Electric Utilities and Infrastructure service territory is expected to increase over time. While economic conditions within the service territory remain strong, sales growth continues to be influenced by adoption of energy efficiencies and self-generation. Residential sales for 2019 compared to 2018 declined. The continued adoption of more efficient structures and appliances is expected to continue to drive average usage per customer lower over time. However, the continued adoption of more efficient housing and appliances is expected to have a negative impact on average usage per residential customer over time.

Seasonality and the Impact of Weather

Revenues and costs are influenced by seasonal weather patterns. Peak sales of electricity occur during the summer and winter months, which results in higher revenue and cash flows during these periods. By contrast, lower sales of electricity occur during the spring and fall, allowing for scheduled plant maintenance. Residential and general service customers are more impacted by weather than industrial customers. Estimated weather impacts are based on actual current period weather compared to normal weather conditions. Normal weather conditions are defined as the long-term average of actual historical weather conditions.

BUSINESS

The estimated impact of weather on earnings is based on the temperature variances from a normal condition and customers' historic usage patterns. The methodology used to estimate the impact of weather does not consider all variables that may impact customer response to weather conditions such as humidity in the summer or wind chill in the winter. The precision of this estimate may also be impacted by applying long-term weather trends to shorter-term periods.

Heating-degree days measure the variation in weather based on the extent the average daily temperature falls below a base temperature. Cooling-degree days measure the variation in weather based on the extent the average daily temperature rises above the base temperature. Each degree of temperature below the base temperature counts as one heating-degree day and each degree of temperature above the base temperature counts as one cooling-degree day.

Competition

Retail

Electric Utilities and Infrastructure's businesses operate as the sole supplier of electricity within their service territories, with the exception of Ohio, which has a competitive electricity supply market for generation service. Electric Utilities and Infrastructure owns and operates facilities necessary to generate, transmit, distribute and sell electricity. Services are priced by state commission approved rates designed to include the costs of providing these services and a reasonable return on invested capital. This regulatory policy is intended to provide safe and reliable electricity at fair prices.

In Ohio, Electric Utilities and Infrastructure conducts competitive auctions for electricity supply. The cost of energy purchased through these auctions is recovered from retail customers. Electric Utilities and Infrastructure earns retail margin in Ohio on the transmission and distribution of electricity, but not on the cost of the underlying energy.

Competition in the regulated electric distribution business is primarily from the development and deployment of alternative energy sources including on-site generation from industrial customers and distributed generation, such as private solar, at residential, general service and/or industrial customer sites.

Wholesale

Duke Energy competes with other utilities and merchant generators for bulk power sales, sales to municipalities and cooperatives and wholesale transactions under primarily cost-based contracts approved by FERC. The principal factors in competing for these sales are availability of capacity and power, reliability of service and price. Prices are influenced primarily by market conditions and fuel costs.

Increased competition in the wholesale electric utility industry and the availability of transmission access could affect Electric Utilities and Infrastructure's load forecasts, plans for power supply and wholesale energy sales and related revenues. Wholesale energy sales will be impacted by the extent to which additional generation is available to sell to the wholesale market and the ability of Electric Utilities and Infrastructure to attract new customers and to retain existing customers.

Energy Capacity and Resources

Electric Utilities and Infrastructure owns approximately 51,144 MW of generation capacity. For additional information on owned generation facilities, see Item 2, "Properties."

Energy and capacity are also supplied through contracts with other generators and purchased on the open market. Factors that could cause Electric Utilities and Infrastructure to purchase power for its customers may include, but are not limited to, generating plant outages, extreme weather conditions, generation reliability, demand growth and price. Electric Utilities and Infrastructure has interconnections and arrangements with its neighboring utilities to facilitate planning, emergency assistance, sale and purchase of capacity and energy and reliability of power supply.

Electric Utilities and Infrastructure's generation portfolio is a balanced mix of energy resources having different operating characteristics and fuel sources designed to provide energy at the lowest possible cost to meet its obligation to serve retail customers. All options, including owned generation resources and purchased power opportunities, are continually evaluated on a real-time basis to select and dispatch the lowest-cost resources available to meet system load requirements.

BUSINESS

Sources of Electricity

Electric Utilities and Infrastructure relies principally on natural gas, nuclear fuel and coal for its generation of electricity. The following table lists sources of electricity and fuel costs for the three years ended December 31, 2019.

	Generation by Source			Cost of Delivered Fuel per Net Kilowatt-hour Generated (Cents)		
	2019	2018	2017	2019	2018	2017
Natural gas and oil ^(a)	29.2%	26.2%	23.6%	2.96	3.57	2.85
Nuclear ^(a)	28.6%	26.0%	27.8%	0.60	0.50	0.69
Coal ^(a)	21.6%	24.4%	27.4%	3.08	2.82	2.72
All fuels (cost-based on weighted average) ^(a)	79.4%	76.6%	78.8%	2.14	2.29	2.04
Hydroelectric and solar ^(b)	1.2%	1.3%	0.7%			
Total generation	80.6%	77.9%	79.5%			
Purchased power and net interchange	19.4%	22.1%	20.5%			
Total sources of energy	100.0%	100.0%	100.0%			

- (a) Statistics related to all fuels reflect Electric Utilities and Infrastructure's ownership interest in jointly owned generation facilities.
(b) Generating figures are net of output required to replenish pumped storage facilities during off-peak periods.

Natural Gas and Fuel Oil

Natural gas and fuel oil supply, transportation and storage for Electric Utilities and Infrastructure's generation fleet is purchased under standard industry agreements from various suppliers, including Piedmont. Natural gas supply agreements typically provide for a percentage of forecasted burns being procured over time, with varied expiration dates. Electric Utilities and Infrastructure believes it has access to an adequate supply of natural gas and fuel oil for the reasonably foreseeable future.

Electric Utilities and Infrastructure has certain dual-fuel generating facilities that can operate utilizing both natural gas and fuel oil. The cost of Electric Utilities and Infrastructure's natural gas and fuel oil is fixed price or determined by published market prices as reported in certain industry publications, plus any transportation and freight costs. Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana use derivative instruments to manage a portion of their exposure to price fluctuations for natural gas. For Duke Energy Florida, there is currently an agreed to moratorium with the FPSC on future hedging of natural gas prices.

Electric Utilities and Infrastructure has firm interstate and intrastate natural gas transportation agreements and storage agreements in place to support generation needed for load requirements. Electric Utilities and Infrastructure may purchase additional shorter-term natural gas transportation and utilize natural gas interruptible transportation agreements to support generation needed for load requirements. The Electric Utilities and Infrastructure natural gas plants are served by various supply zones and multiple pipelines.

Nuclear

The industrial processes for producing nuclear generating fuel generally involve the mining and milling of uranium ore to produce uranium concentrates and services to convert, enrich and fabricate fuel assemblies.

Electric Utilities and Infrastructure has contracted for uranium materials and services to fuel its nuclear reactors. Uranium concentrates, conversion services and enrichment services are primarily met through a diversified portfolio of long-term supply contracts. The contracts are diversified by supplier, country of origin and pricing. Electric Utilities and Infrastructure staggers its contracting so that its portfolio of long-term contracts covers the majority of its fuel requirements in the near term and decreasing portions of its fuel requirements over time thereafter. Near-term requirements not met by long-term supply contracts have been and are expected to be fulfilled with spot market purchases. Due to the technical complexities of changing suppliers of fuel fabrication services, Electric Utilities and Infrastructure generally sources these services to a single domestic supplier on a plant-by-plant basis using multiyear contracts.

Electric Utilities and Infrastructure has entered into fuel contracts that cover 100% of its uranium concentrates, conversion services and enrichment services requirements through at least 2020 and cover fabrication services requirements for these plants through at least 2027. For future requirements not already covered under long-term contracts, Electric Utilities and Infrastructure believes it will be able to renew contracts as they expire or enter into similar contractual arrangements with other suppliers of nuclear fuel materials and services.

BUSINESS

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Coal

Electric Utilities and Infrastructure meets its coal demand through a portfolio of long-term purchase contracts and short-term spot market purchase agreements. Large amounts of coal are purchased under long-term contracts with mining operators who mine both underground and at the surface. Electric Utilities and Infrastructure uses spot market purchases to meet coal requirements not met by long-term contracts. Expiration dates for its long-term contracts, which have various price adjustment provisions and market reopeners, range from 2020 to 2022 for Duke Energy Carolinas and Duke Energy Progress, 2020 to 2021 for Duke Energy Florida and Duke Energy Ohio and 2020 to 2025 for Duke Energy Indiana. Electric Utilities and Infrastructure expects to renew these contracts or enter into similar contracts with other suppliers as existing contracts expire, though prices will fluctuate over time as coal markets change. Electric Utilities and Infrastructure has an adequate supply of coal under contract to meet its hedging guidelines regarding projected future consumption. As a result of volatility in natural gas prices and the associated impacts on coal-fired dispatch within the generation fleet, coal inventories will continue to fluctuate. Electric Utilities and Infrastructure continues to actively manage its portfolio and has worked with suppliers to obtain increased flexibility in its coal contracts.

Coal purchased for the Carolinas is primarily produced from mines in Central Appalachia, Northern Appalachia and the Illinois Basin. Coal purchased for Florida is primarily produced from mines in Colorado and the Illinois Basin. Coal purchased for Kentucky is produced from mines along the Ohio River in Illinois, Ohio, West Virginia and Pennsylvania. Coal purchased for Indiana is primarily produced in Indiana and Illinois. The current average sulfur content of coal purchased by Electric Utilities and Infrastructure is between 1.5% and 2% for Duke Energy Carolinas and Duke Energy Progress, between 2% and 3% for Duke Energy Florida, between 2.5% and 3% for Duke Energy Ohio and between 1.5% and 3% for Duke Energy Indiana. Electric Utilities and Infrastructure's environmental controls, in combination with the use of SO₂ emission allowances, enable Electric Utilities and Infrastructure to satisfy current SO₂ emission limitations for its existing facilities.

Purchased Power

Electric Utilities and Infrastructure purchases a portion of its capacity and system requirements through purchase obligations, leases and purchase capacity contracts. Electric Utilities and Infrastructure believes it can obtain adequate purchased power capacity to meet future system load needs. However, during periods of high demand, the price and availability of purchased power may be significantly affected.

The following table summarizes purchased power for the previous three years:

	2019	2018	2017
Purchase obligations and leases (in millions of MWh) ^(a)	34.8	21.3	17.7
Purchase capacity under contract (in MW) ^(b)	4,238	4,025	4,028

(a) Represents approximately 14% for 2019 and 7% for 2018 and 2017 of total system requirements.

(b) For 2019, 2018 and 2017 these agreements include approximately 412 MW of firm capacity under contract by Duke Energy Florida with QFs.

Inventory

Electric Utilities and Infrastructure must maintain an adequate stock of fuel and materials and supplies in order to ensure continuous operation of generating facilities and reliable delivery to customers. As of December 31, 2019, the inventory balance for Electric Utilities and Infrastructure was approximately \$3 billion. For additional information on inventory, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

Ash Basin Management

During 2015, EPA issued regulations related to the management of CCR from power plants. These regulations classify CCR as nonhazardous waste under the Resource Conservation and Recovery Act (RCRA) and apply to electric generating sites with new and existing landfills and new and existing surface impoundments and establishes requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring, protection and remedial procedures and other operational and reporting procedures for the disposal and management of CCR. In addition to the federal regulations, CCR landfills and surface impoundments (ash basins or impoundments) will continue to be regulated by existing state laws, regulations and permits, including the Coal Ash Act in North Carolina.

Electric Utilities and Infrastructure has and will periodically submit to applicable authorities required site-specific coal ash impoundment remediation or closure plans. These plans and all associated permits must be approved before any work can begin. Closure activities began in 2015 at the four sites specified as high priority by the Coal Ash Act and at the W.S. Lee Steam Station site in South Carolina in connection with other legal requirements. Excavation at these sites involves movement of CCR materials to off-site locations for use as structural fill, to appropriate engineered off-site or on-site lined landfills or conversion of the ash for beneficial use. Duke Energy has completed excavation of coal ash regulated by the Coal Ash Act at three of the four high-priority sites. At other sites, planning and closure methods have been studied and factored into the estimated retirement and management costs, and closure activities have commenced.

The Coal Ash Act leaves the decision on cost recovery determinations related to closure of coal ash surface impoundments to the normal ratemaking processes before utility regulatory commissions. Duke Energy Carolinas and Duke Energy Progress have included compliance costs associated with the EPA CCR rule and the Coal Ash Act in their respective rate case filings. During 2017, Duke Energy Carolinas' and Duke Energy Progress' wholesale contracts were amended to include the recovery of expenditures related to AROs for the closure of coal ash basins. The amended contracts have retail disallowance parity or provisions limiting challenges to CCR cost recovery actions at FERC. FERC approved the amended wholesale rate schedules in 2017. For additional information on the ash basins and recovery, see Item 7, "Other Matters" and Notes 4, 5 and 10 to the Consolidated Financial Statements, "Regulatory Matters," "Commitments and Contingencies" and "Asset Retirement Obligations," respectively.

BUSINESS

Nuclear Matters

Duke Energy owns, wholly or partially, 11 operating nuclear reactors located at six operating stations. The Crystal River Unit 3 permanently ceased operation in February 2013. Nuclear insurance includes: nuclear liability coverage; property damage coverage; nuclear accident decontamination and premature decommissioning coverage; and accidental outage coverage for losses in the event of a major accidental outage. Joint owners reimburse Duke Energy for certain expenses associated with nuclear insurance in accordance with joint owner agreements. The Price-Anderson Act requires plant owners to provide for public nuclear liability claims resulting from nuclear incidents to the maximum total financial protection liability, which is approximately \$13.9 billion. For additional information on nuclear insurance see Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies."

Duke Energy has a significant future financial commitment to dispose of spent nuclear fuel and decommission and decontaminate each plant safely. The NCUC, PSCSC and FPSC require Duke Energy to update their cost estimates for decommissioning their nuclear plants every five years.

The following table summarizes the fair value of NDTF investments and the most recent site-specific nuclear decommissioning cost studies. Decommissioning costs are stated in 2018 or 2019 dollars, depending on the year of the cost study, and include costs to decommission plant components not subject to radioactive contamination.

(in millions)	NDTF ^(a)		Decommissioning	
	December 31, 2019	December 31, 2018	Costs ^(a)	Year of Cost Study
Duke Energy	\$ 8,140	\$ 6,720	\$ 9,152	2018 and 2019
Duke Energy Carolinas ^{(b)(c)}	4,359	3,558	4,365	2018
Duke Energy Progress ^(d)	3,047	2,503	4,181	2019
Duke Energy Florida ^(e)	734	659	606	2019

- (a) Amounts for Progress Energy equal the sum of Duke Energy Progress and Duke Energy Florida.
- (b) Decommissioning cost for Duke Energy Carolinas reflects its ownership interest in jointly owned reactors. Other joint owners are responsible for decommissioning costs related to their interest in the reactors.
- (c) Duke Energy Carolinas' site-specific nuclear decommissioning cost study completed in 2018 was filed with the NCUC and PSCSC in 2019. A new funding study was also completed and filed with the NCUC and PSCSC in 2019.
- (d) Duke Energy Progress' site-specific nuclear decommissioning cost study, which was completed in 2019, is expected to be filed with the NCUC and PSCSC during the first quarter of 2020. Duke Energy Progress is expected to file an updated funding study with NCUC and PSCSC in the third quarter of 2020.
- (e) During 2019, Duke Energy Florida reached an agreement to transfer decommissioning work for Crystal River Unit 3 to a third party. The agreement requires regulatory approval from the NRC and the FPSC.

The NCUC, PSCSC, FPSC and FERC have allowed Electric Utilities and Infrastructure to recover estimated decommissioning costs through retail and wholesale rates over the expected remaining service periods of their nuclear stations. Electric Utilities and Infrastructure believes the decommissioning costs being recovered through rates, when coupled with the existing fund balances and expected fund earnings, will be sufficient to provide for the cost of future decommissioning. For additional information, see Note 10 to the Consolidated Financial Statements, "Asset Retirement Obligations."

The Nuclear Waste Policy Act of 1982 (as amended) provides the framework for development by the federal government of interim storage and permanent disposal facilities for high-level radioactive waste materials. The government has not yet developed a storage facility or disposal capacity, so Electric Utilities and Infrastructure will continue to store spent fuel on its reactor sites.

Under federal law, the DOE is responsible for the selection and construction of a facility for the permanent disposal of spent nuclear fuel and high-level radioactive waste. The DOE terminated the project to license and develop a geologic repository at Yucca Mountain, Nevada in 2010, and is currently taking no action to fulfill its responsibilities to dispose of spent fuel.

Until the DOE begins to accept the spent nuclear fuel, Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida will continue to safely manage their spent nuclear fuel. Under current regulatory guidelines, Harris has sufficient storage capacity in its spent fuel pools through the expiration of its renewed operating license. With certain modifications and approvals by the NRC to expand the on-site dry cask storage facilities, spent nuclear fuel dry storage facilities will be sufficient to provide storage space of spent fuel through the expiration of the operating licenses, including any license renewals, for Brunswick, Catawba, McGuire, Oconee and Robinson. Crystal River Unit 3 ceased operation in 2013 and was placed in a SAFSTOR condition in January 2018. As of January 2018, all spent fuel at Crystal River Unit 3 has been transferred from the spent fuel pool to dry storage at an on-site independent spent fuel storage installation.

The nuclear power industry faces uncertainties with respect to the cost and long-term availability of disposal sites for spent nuclear fuel and other radioactive waste, compliance with changing regulatory requirements, capital outlays for modifications and new plant construction.

BUSINESS

Electric Utilities and Infrastructure is subject to the jurisdiction of the NRC for the design, construction and operation of its nuclear generating facilities. The following table includes the current year of expiration of nuclear operating licenses for nuclear stations in operation. During 2019, Duke Energy announced its intention to seek 20-year operating license renewals for each of the reactors it operates in Duke Energy Carolinas and Duke Energy Progress.

Unit	Year of Expiration
Duke Energy Carolinas	
Catawba Units 1 and 2	2043
McGuire Unit 1	2041
McGuire Unit 2	2043
Oconee Units 1 and 2	2033
Oconee Unit 3	2034
Duke Energy Progress	
Brunswick Unit 1	2036
Brunswick Unit 2	2034
Harris	2046
Robinson	2030

The NRC has acknowledged permanent cessation of operation and permanent removal of fuel from the reactor vessel at Crystal River Unit 3. Therefore, the license no longer authorizes operation of the reactor. For additional information on nuclear decommissioning activity, see Notes 4 and 10 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively.

Regulation

State

The state electric utility commissions approve rates for Duke Energy's retail electric service within their respective states. The state electric utility commissions, to varying degrees, have authority over the construction and operation of Electric Utilities and Infrastructure's generating facilities. CPCNs issued by the state electric utility commissions, as applicable, authorize Electric Utilities and Infrastructure to construct and operate its electric facilities and to sell electricity to retail and wholesale customers. Prior approval from the relevant state electric utility commission is required for the entities within Electric Utilities and Infrastructure to issue securities. The underlying concept of utility ratemaking is to set rates at a level that allows the utility to collect revenues equal to its cost of providing service plus earn a reasonable rate of return on its invested capital, including equity.

In addition to rates approved in base rate cases, each of the state electric utility commissions allow recovery of certain costs through various cost-recovery clauses to the extent the respective commission determines in periodic hearings that such costs, including any past over or under-recovered costs, are prudent.

Fuel, fuel-related costs and certain purchased power costs are eligible for recovery by Electric Utilities and Infrastructure. Electric Utilities and Infrastructure uses coal, hydroelectric, natural gas, oil, renewable generation and nuclear fuel to generate electricity, thereby maintaining a diverse fuel mix that helps mitigate the impact of cost increases in any one fuel. Due to the associated regulatory treatment and the method allowed for recovery, changes in fuel costs from year to year have no material impact on operating results of Electric Utilities and Infrastructure, unless a commission finds a portion of such costs to have been imprudent. However, delays between the expenditure for fuel costs and recovery from customers can adversely impact the timing of cash flows of Electric Utilities and Infrastructure.

BUSINESS

The table below reflects significant electric rate case applications approved and effective in the past three years or applications currently pending approval.

	Regulatory Body	Annual Increase (Decrease) (in millions)	Return on Equity	Equity Component of Capital Structure	Effective Date
Approved Rate Cases:					
Duke Energy Carolinas 2018 South Carolina Rate Case	PSCSC	\$ 45	9.5%	53%	6/1/2019
Duke Energy Progress 2018 South Carolina Rate Case	PSCSC	29	9.5%	53%	6/1/2019
Duke Energy Ohio 2017 Ohio Electric Rate Case	PUCO	(19)	9.84%	50.75%	1/2/2019
Duke Energy Carolinas 2017 North Carolina Rate Case	NCUC	(73)	9.9%	52%	8/1/2018
Duke Energy Kentucky 2017 Kentucky Electric Rate Case	KPSC	8	9.725%	49%	5/1/2018
Duke Energy Progress 2017 North Carolina Rate Case	NCUC	151	9.9%	52%	3/16/2018
Duke Energy Progress 2016 South Carolina Rate Case	PSCSC	(a)	10.1%	53%	1/1/2017
Pending Rate Cases:					
Duke Energy Carolinas 2019 North Carolina Rate Case	NCUC	\$ 291	10.3%	53%	8/1/2020
Duke Energy Progress 2019 North Carolina Rate Case	NCUC	464	10.3%	53%	9/1/2020
Duke Energy Kentucky 2019 Kentucky Electric Rate Case	KPSC	46	9.8%	48.2%	Q2 2020
Duke Energy Indiana 2019 Indiana Rate Case	IURC	(b)	10.4%	53%	mid 2020

- (a) An increase of approximately \$38 million in revenues was effective January 1, 2017, and an additional increase of approximately \$19 million in revenues was effective January 1, 2018.
- (b) Requests an increase of annualized retail revenues of \$352 million beginning in July 2020, and an additional \$44 million beginning in April 2021, which include the impacts of the Utility Receipt Tax.

For more information on rate matters and other regulatory proceedings, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

Federal

The FERC approves Electric Utilities and Infrastructure's cost-based rates for electric sales to certain power and transmission wholesale customers. Regulations of FERC and the state electric utility commissions govern access to regulated electric and other data by nonregulated entities and services provided between regulated and nonregulated energy affiliates. These regulations affect the activities of nonregulated affiliates with Electric Utilities and Infrastructure.

RTOs

PJM and MISO are the ISOs and FERC-approved RTOs for the regions in which Duke Energy Ohio and Duke Energy Indiana operate. PJM and MISO operate energy, capacity and other markets, and control the day-to-day operations of bulk power systems through central dispatch.

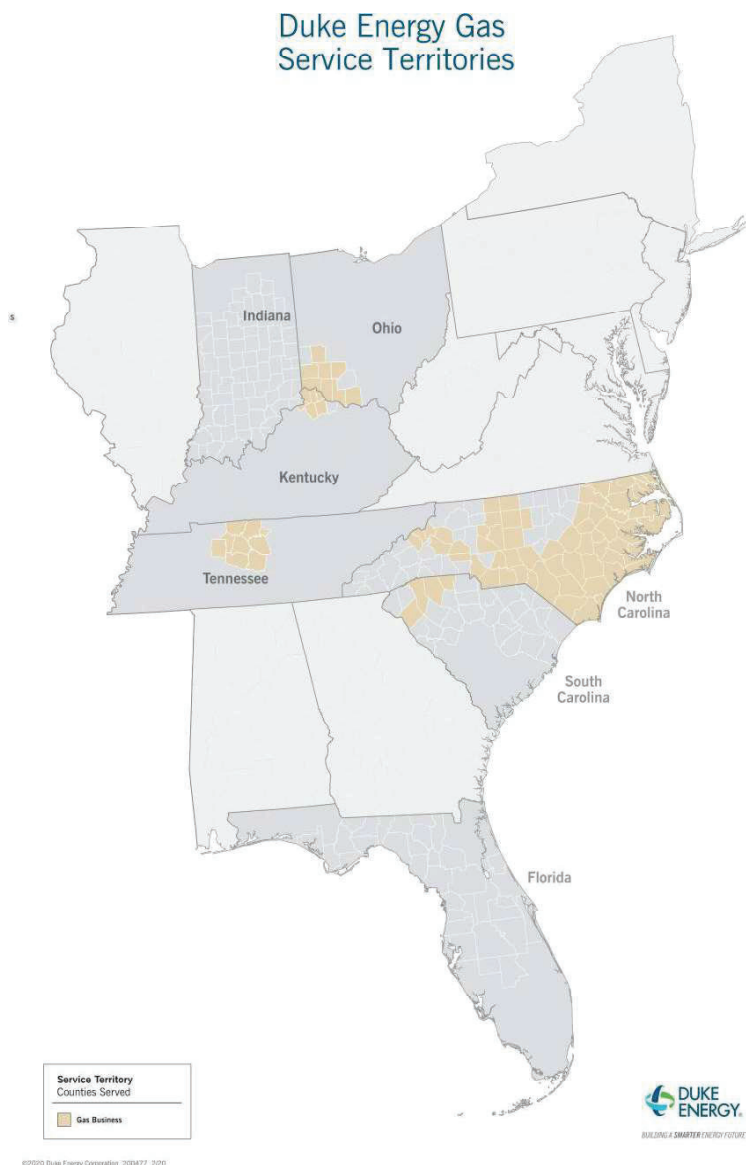
Duke Energy Ohio is a member of PJM and Duke Energy Indiana is a member of MISO. Transmission owners in these RTOs have turned over control of their transmission facilities and their transmission systems are currently under the dispatch control of the RTOs. Transmission service is provided on a nationwide, open-access basis using the transmission facilities of the RTO members at rates based on the costs of transmission service.

Environmental

Electric Utilities and Infrastructure is subject to the jurisdiction of the EPA and state and local environmental agencies. For a discussion of environmental regulation, see "Environmental Matters" in this section. See the "Other Matters" section of Management's Discussion and Analysis for a discussion about potential Global Climate Change legislation and other EPA regulations under development and the potential impacts such legislation and regulation could have on Duke Energy's operations.

GAS UTILITIES AND INFRASTRUCTURE

Gas Utilities and Infrastructure conducts natural gas operations primarily through the regulated public utilities of Piedmont, Duke Energy Ohio and Duke Energy Kentucky. The natural gas operations are subject to the rules and regulations of the NCUC, PSCSC, PUCO, KPSC, TPUC, PHMSA and the FERC. Gas Utilities and Infrastructure serves residential, commercial, industrial and power generation natural gas customers, including customers served by municipalities who are wholesale customers. Gas Utilities and Infrastructure has over 1.6 million customers, including 1.1 million customers located in North Carolina, South Carolina and Tennessee, and an additional 535,000 customers located within southwestern Ohio and northern Kentucky. In the Carolinas, Ohio and Kentucky, the service areas are comprised of numerous cities, towns and communities. In Tennessee, the service area is the metropolitan area of Nashville. The following map shows the service territory and investments in operating and proposed midstream properties for Gas Utilities and Infrastructure as of December 31, 2019.



The number of residential, commercial and industrial customers within the Gas Utilities and Infrastructure service territory is expected to increase over time. Average usage per residential customer is expected to remain flat or decline for the foreseeable future; however, decoupled rates in North Carolina and various rate design mechanisms in other jurisdictions partially mitigate the impact of the declining usage per customer on overall profitability.

Gas Utilities and Infrastructure also owns, operates and has investments in various pipeline transmission and natural gas storage facilities.

BUSINESS

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SEP 13 2021

Natural Gas for Retail Distribution

Gas Utilities and Infrastructure is responsible for the distribution of natural gas to retail customers in its North Carolina, South Carolina, Tennessee, Ohio and Kentucky service territories. Gas Utilities and Infrastructure's natural gas procurement strategy is to contract primarily with major and independent producers and marketers for natural gas supply. It also purchases a diverse portfolio of transportation and storage service from interstate pipelines. This strategy allows Gas Utilities and Infrastructure to assure reliable natural gas supply and transportation for its firm customers during peak winter conditions. When firm pipeline services or contracted natural gas supplies are temporarily not needed due to market demand fluctuations, Gas Utilities and Infrastructure may release these services and supplies in the secondary market under FERC-approved capacity release provisions or make wholesale secondary market sales. In 2019, firm supply purchase commitment agreements provided 100% of the natural gas supply for both Piedmont and Duke Energy Ohio.

Impact of Weather

Gas Utilities and Infrastructure revenues are generally protected from the impact of weather fluctuations due to the regulatory mechanisms that are available in most service territories. In North Carolina, margin decoupling provides protection from both weather and other usage variations like conservation for residential and commercial customer classes. Margin decoupling provides a set revenue per customer independent of actual usage. In South Carolina, Tennessee and Kentucky, weather normalization adjusts revenues either up or down depending on how much warmer or colder than normal a given month has been. Weather normalization adjustments occur from November through March in South Carolina, from October through April in Tennessee and from November through April in Kentucky. Duke Energy Ohio collects most of its non-fuel revenue through a fixed monthly charge that is not impacted by usage fluctuations that result from weather changes or conservation.

Competition

Gas Utilities and Infrastructure's businesses operate as the sole provider of natural gas service within their retail service territories. Gas Utilities and Infrastructure owns and operates facilities necessary to transport and distribute natural gas. Gas Utilities and Infrastructure earns retail margin on the transmission and distribution of natural gas and not on the cost of the underlying commodity. Services are priced by state commission approved rates designed to include the costs of providing these services and a reasonable return on invested capital. This regulatory policy is intended to provide safe and reliable natural gas service at fair prices.

In residential, commercial and industrial customer markets, natural gas distribution operations compete with other companies that supply energy, primarily electric companies, propane and fuel oil dealers, renewable energy providers and coal companies in relation to sources of energy for electric power plants, as well as nuclear energy. A significant competitive factor is price. Gas Utilities and Infrastructure's primary product competition is with electricity for heating, water heating and cooking. Increases in the price of natural gas or decreases in the price of other energy sources could negatively impact competitive position by decreasing the price benefits of natural gas to the consumer. In the case of industrial customers, such as manufacturing plants, adverse economic or market conditions, including higher natural gas costs, could cause these customers to suspend business operations or to use alternative sources of energy in favor of energy sources with lower per-unit costs.

Higher natural gas costs or decreases in the price of other energy sources may allow competition from alternative energy sources for applications that have traditionally used natural gas, encouraging some customers to move away from natural gas-fired equipment to equipment fueled by other energy sources. Competition between natural gas and other forms of energy is also based on efficiency, performance, reliability, safety and other non-price factors. Technological improvements in other energy sources and events that impair the public perception of the non-price attributes of natural gas could erode our competitive advantage. These factors in turn could decrease the demand for natural gas, impair our ability to attract new customers and cause existing customers to switch to other forms of energy or to bypass our systems in favor of alternative competitive sources. This could result in slow or no customer growth and could cause customers to reduce or cease using our product, thereby reducing our ability to make capital expenditures and otherwise grow our business, adversely affecting our earnings.

Pipeline and Storage Investments

Duke Energy, through its Gas Utilities and Infrastructure segment, is a 47% equity member of ACP, which plans to build and own the proposed ACP pipeline, an approximately 600-mile interstate natural gas pipeline, regulated by FERC. The ACP pipeline is intended to transport diverse natural gas supplies into southeastern markets. Duke Energy Carolinas, Duke Energy Progress and Piedmont, among others, will be customers of ACP. ACP expects mechanical completion of the full project in late 2021 with in-service likely in the first half of 2022. Abnormal weather, work delays (including delays due to judicial or regulatory action) and other conditions may result in cost or schedule modifications, a suspension of AFUDC for ACP and/or impairment charges potentially material to Duke Energy's cash flows, financial position and results of operations. ACP and Duke Energy will continue to consider their options with respect to the foregoing in light of their existing contractual and legal obligations.

Gas Utilities and Infrastructure also has a 7.5% equity ownership interest in Sabal Trail. Sabal Trail is a joint venture that owns the Sabal Trail Natural Gas Pipeline (Sabal Trail pipeline) to transport natural gas to Florida, regulated by FERC. The Sabal Trail phase one mainline was placed into service in July 2017 and traverses Alabama, Georgia and Florida. The remaining lateral line to the Duke Energy Florida's Citrus County CC was placed into service in March 2018. In May 2019, construction activities began as planned on Phase II of Sabal Trail. Phase II will add approximately 200,000 Dth of capacity to the Sabal Trail pipeline and is expected to achieve in-service in May 2020.

Gas Utilities and Infrastructure had a 24% equity ownership interest in Constitution, an interstate pipeline development company formed to develop, construct, own and operate a 124-mile natural gas pipeline and related facilities, regulated by FERC. Constitution was slated to transport natural gas supplies from the Marcellus supply region in northern Pennsylvania to major northeastern markets. As of February 5, 2020, the Constitution partners formally resolved to initiate the dissolution of Constitution, and to terminate the Constitution Pipeline project.

Duke Energy, through its Gas Utilities and Infrastructure segment, has a 21.49% equity ownership interest in Cardinal, an intrastate pipeline located in North Carolina regulated by the NCUC, a 45% equity ownership in Pine Needle, an interstate liquefied natural gas storage facility located in North Carolina and a 50% equity ownership interest in Hardy Storage, an underground interstate natural gas storage facility located in Hardy and Hampshire counties in West Virginia. Pine Needle and Hardy Storage are regulated by FERC.

BUSINESS

KO Transmission, a wholly owned subsidiary of Duke Energy Ohio, is an interstate pipeline company engaged in the business of transporting natural gas and is subject to the rules and regulations of FERC. KO Transmission's 90-mile pipeline supplies natural gas to Duke Energy Ohio and interconnects with the Columbia Gulf Transmission pipeline and Tennessee Gas Pipeline. An approximately 70-mile portion of KO Transmission's pipeline facilities is co-owned by Columbia Gas Transmission Corporation.

See Notes 4, 13 and 18 to the Consolidated Financial Statements, "Regulatory Matters," "Investments in Unconsolidated Affiliates" and "Variable Interest Entities," respectively, for further information on Duke Energy's pipeline investments.

Inventory

Gas Utilities and Infrastructure must maintain adequate natural gas inventory in order to provide reliable delivery to customers. As of December 31, 2019, the inventory balance for Gas Utilities and Infrastructure was \$111 million. For more information on inventory, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

Regulation

State

The state gas utility commissions approve rates for Duke Energy's retail natural gas service within their respective states. The state gas utility commissions, to varying degrees, have authority over the construction and operation of Gas Utilities and Infrastructure's natural gas distribution facilities. CPCNs issued by the state gas utility commissions or other government agencies, as applicable, authorize Gas Utilities and Infrastructure to construct and operate its natural gas distribution facilities and to sell natural gas to retail and wholesale customers. Prior approval from the relevant state gas utility commission is required for Gas Utilities and Infrastructure to issue securities. The underlying concept of utility ratemaking is to set rates at a level that allows the utility to collect revenues equal to its cost of providing service plus a reasonable rate of return on its invested capital, including equity.

In addition to amounts collected from customers through approved base rates, each of the state gas utility commissions allow recovery of certain costs through various cost-recovery clauses to the extent the respective commission determines in periodic hearings that such costs, including any past over- or under-recovered costs, are prudent.

Natural gas costs are eligible for recovery by Gas Utilities and Infrastructure. Due to the associated regulatory treatment and the method allowed for recovery, changes in natural gas costs from year to year have no material impact on operating results of Gas Utilities and Infrastructure, unless a commission finds a portion of such costs to have not been prudent. However, delays between the expenditure for natural gas and recovery from customers can adversely impact the timing of cash flows of Gas Utilities and Infrastructure.

The following table summarizes certain components underlying recently approved and effective base rates or rate stabilization filings in the last three years.

	Annual Increase (Decrease) (in millions)	Return on Equity	Equity Component of Capital Structure	Effective Date
Approved Rate Cases:				
Piedmont 2017 South Carolina Rate Stabilization Adjustment Filing	6	10.2%	53.0%	November 2017
Piedmont 2018 South Carolina Rate Stabilization Adjustment Filing	(14)	10.2%	53.0%	November 2018
Piedmont 2019 South Carolina Rate Stabilization Adjustment Filing	6	9.9%	55.4%	November 2019
Duke Energy Kentucky 2018 Natural Gas Base Rate Case	7	9.7%	50.8%	April 2019
Piedmont 2019 North Carolina Natural Gas Base Rate Case	109	9.7%	52.0%	November 2019

Gas Utilities and Infrastructure has IMR mechanisms in North Carolina and Tennessee designed to separately track and recover certain costs associated with capital investments incurred to comply with federal pipeline safety and integrity programs, as well as additional state safety and integrity requirements in Tennessee. The following table summarizes information related to recently approved or pending IMR filings.

(in millions)	Cumulative Investment	Annual Revenues	Effective Date
Piedmont 2019 IMR Filing – North Carolina	\$ 109	\$ 11.4	December 2019
Pending Filing:			
Piedmont 2019 IMR Filing – Tennessee	296.6	28.1	Expected Effective Date mid 2020

For more information on rate matters and other regulatory proceedings, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

BUSINESS

Federal

Gas Utilities and Infrastructure is subject to various federal regulations, including regulations that are particular to the natural gas industry. These federal regulations include but are not limited to the following:

- Regulations of the FERC affect the certification and siting of new interstate natural gas pipeline projects, the purchase and sale of, the prices paid for, and the terms and conditions of service for the interstate transportation and storage of natural gas.
- Regulations of the PHMSA affect the design, construction, operation, maintenance, integrity, safety and security of natural gas distribution and transmission systems.
- Regulations of the EPA relate to the environment including proposed air emissions regulations that would expand to include emissions of methane.

Regulations of the FERC and the state gas utility commissions govern access to regulated natural gas and other data by nonregulated entities and services provided between regulated and nonregulated energy affiliates. These regulations affect the activities of nonregulated affiliates with Gas Utilities and Infrastructure.

Environmental

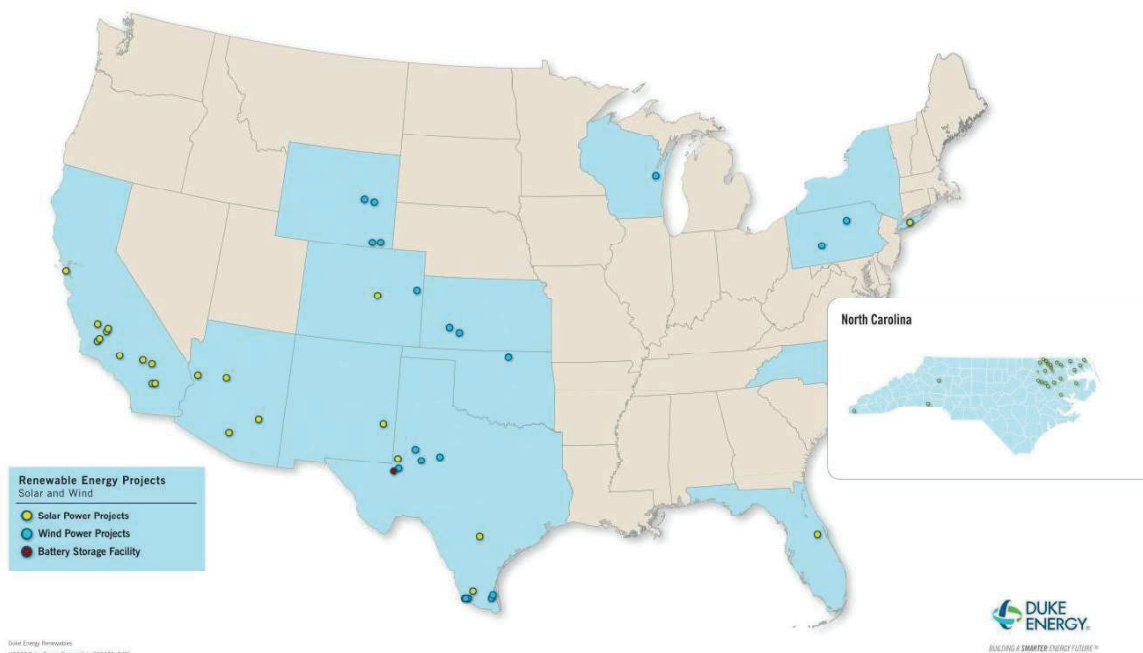
Gas Utilities and Infrastructure is subject to the jurisdiction of the EPA and state and local environmental agencies. For a discussion of environmental regulation, see "Environmental Matters" in this section. See "Other Matters" section of Management's Discussion and Analysis for a discussion about potential Global Climate Change legislation and other EPA regulations under development and the potential impacts such legislation and regulation could have on Duke Energy's operations.

COMMERCIAL RENEWABLES

Commercial Renewables primarily acquires, develops, builds, operates and owns wind and solar renewable generation throughout the continental U.S. The portfolio includes nonregulated renewable energy and energy storage businesses. On April 24, 2019, Duke Energy executed an agreement to sell a minority interest in a portion of certain renewable assets. The sale closed on September 6, 2019. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information.

Commercial Renewables' renewable energy includes utility-scale wind and solar generation assets, distributed solar generation assets, distributed fuel cell assets and a battery storage project, which total 2,282 MW across 19 states from 22 wind facilities, 126 solar projects, 11 fuel cell locations and one battery storage facility. Revenues are primarily generated by selling the power produced from renewable generation through long-term contracts to utilities, electric cooperatives, municipalities and corporate customers. In most instances, these customers have obligations under state-mandated renewable energy portfolio standards or similar state or local renewable energy goals. Energy and renewable energy credits generated by wind and solar projects are generally sold at contractual prices. The following map shows the locations of renewable generation facilities of which Commercial Renewables has an ownership interest as of December 31, 2019.

Commercial Renewables Portfolio



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As eligible projects are placed in service, Commercial Renewables recognizes either PTCs as power is generated by wind projects over 10 years or ITCs when the renewable solar, fuel cells or wind project achieves commercial availability. ITCs are recognized over the useful life of the asset as a reduction to depreciation expense. Benefits of the tax basis adjustment due to the ITC are recognized in income in the year of commercial availability. The ITC is being phased down from the current 2019 rate of 30% to a permanent 10% rate if construction begins after 2021. The PTC is being phased out and wind turbines will earn 10 years of PTCs at phased-out rates if construction began in 2017 through 2020.

As part of its growth strategy, Commercial Renewables has expanded its investment portfolio through the addition of distributed solar companies and projects, energy storage systems and energy management solutions specifically tailored to commercial businesses. These investments include REC Solar, a California-based provider of solar installations for retail, manufacturing, agriculture, technology, government and nonprofit customers across the U.S. and Phoenix Energy Technologies Inc., a California-based provider of enterprise energy management and information software to commercial businesses.

Commercial Renewables has entered into agreements for certain of its generating assets that are held by LLCs whose members include a noncontrolling tax equity investor. The allocation of tax attributes and cash flows to the tax equity investor are governed by the provisions of the LLC agreements. The GAAP earnings allocations to the tax equity investors can result in variability in earnings to Duke Energy. As part of its growth strategy, Commercial Renewables expects to enter into these arrangements for future generating assets.

For additional information on Commercial Renewables' generation facilities, see Item 2, "Properties."

Market Environment and Competition

Commercial Renewables primarily competes for wholesale contracts for the generation and sale of electricity from generation assets it either develops or acquires and owns. The market price of commodities and services, along with the quality and reliability of services provided, drive competition in the wholesale energy business. The number and type of competitors may vary based on location, generation type and project size. Commercial Renewables' main competitors include other nonregulated generators and wholesale power providers.

Sources of Electricity

Commercial Renewables relies on wind, solar, fuel cells and battery resources for its generation of electric energy.

Regulation

Commercial Renewables is subject to regulation at the federal level, primarily from the FERC. Regulations of the FERC govern access to regulated market information by nonregulated entities and services provided between regulated and nonregulated utilities.

OTHER

The remainder of Duke Energy's operations is presented as Other. While it is not a business segment, Other primarily includes interest expense on holding company debt, unallocated corporate costs including costs to achieve strategic acquisitions, amounts related to certain companywide initiatives and contributions made to the Duke Energy Foundation. Other also includes Bison and an investment in NMC.

The Duke Energy Foundation is a nonprofit organization funded by Duke Energy shareholders that makes charitable contributions to selected nonprofits and government subdivisions.

Bison, a wholly owned subsidiary of Duke Energy, is a captive insurance company with the principal activity of providing Duke Energy subsidiaries with indemnification for financial losses primarily related to property, workers' compensation and general liability.

Duke Energy owns a 17.5% equity interest in NMC. The joint venture company has production facilities in Jubail, Saudi Arabia, where it manufactures certain petrochemicals and plastics. The company annually produces approximately 1 million metric tons each of MTBE and methanol and has the capacity to produce 50,000 metric tons of polyacetal. The main feedstocks to produce these products are natural gas and butane. Duke Energy records the investment activity of NMC using the equity method of accounting and retains 25% of NMC's board of directors' representation and voting rights.

Employees

On December 31, 2019, Duke Energy had a total of 28,793 employees on its payroll. The total includes 5,399 employees who are represented by labor unions under various collective bargaining agreements that generally cover wages, benefits, working practices, and other terms and conditions of employment.

BUSINESS

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SEP 13 2021

Information about Our Executive Officers

The following table sets forth the individuals who currently serve as executive officers. Executive officers serve until their successors are duly elected or appointed.

Name	Age ^(a)	Current and Recent Positions Held
Lynn J. Good	60	Chairman, President and Chief Executive Officer. Ms. Good was elected as Chairman of the Board, effective January 1, 2016, and assumed her position as President and Chief Executive Officer in July 2013. Prior to that, she served as Executive Vice President and Chief Financial Officer since 2009.
Steven K. Young	61	Executive Vice President and Chief Financial Officer. Mr. Young assumed his current position in August 2013. Prior to that, he served as Vice President, Chief Accounting Officer and Controller, assuming the role of Chief Accounting Officer in July 2012 and the role of Controller in December 2006.
Melissa H. Anderson	55	Executive Vice President and Chief Human Resources Officer. Ms. Anderson assumed her position in January 2015 and had responsibility for the Administration services organization from May 2016 until October 2019. Prior to joining Duke Energy, she served as Senior Vice President of Human Resources at Domtar Inc. since 2010.
Douglas F Esamann	62	Executive Vice President, Energy Solutions and President, Midwest/Florida Regions and Natural Gas Business. Mr. Esamann assumed his current position in October 2019, was Executive Vice President, Energy Solutions and President, Midwest and Florida Regions since September 2016 and was Executive Vice President and President, Midwest and Florida Regions since June 2015. Prior to that, he served as President, Duke Energy Indiana since November 2010.
Kodwo Ghartey-Tagoe	56	Executive Vice President and Chief Legal Officer. Mr. Ghartey-Tagoe assumed the position of Executive Vice President and Chief Legal Officer in October 2019 after serving as President, South Carolina since 2017. Mr. Ghartey-Tagoe joined Duke Energy in 2002 and has held numerous management positions in Duke Energy's Legal Department, including Duke Energy's Senior Vice President of State and Federal Regulatory Legal Support.
Dwight L. Jacobs	54	Senior Vice President, Chief Accounting Officer, Tax and Controller. Mr. Jacobs has served as Senior Vice President, Chief Accounting Officer, Tax and Controller since January 1, 2019. Prior to that, he served as Senior Vice President, Chief Accounting Officer and Controller since June 1, 2018. Prior to that, he served as Senior Vice President, Financial Planning & Analysis since February 2016 and as Chief Risk Officer since July 2014. Prior to his role as Chief Risk Officer, Mr. Jacobs served as Vice President, Rates & Regulatory Strategy since May 2010.
Dhiaa M. Jamil	63	Executive Vice President and Chief Operating Officer. Mr. Jamil assumed the role of Chief Operating Officer in May 2016. Prior to his current position, he held the title Executive Vice President and President, Regulated Generation and Transmission since June 2015. Prior to that, he served as Executive Vice President and President, Regulated Generation since August 2014. He served as Executive Vice President and President of Duke Energy Nuclear from March 2013 to August 2014, and was Chief Nuclear Officer from February 2008 to February 2013.
Julia S. Janson	54	Executive Vice President, External Affairs and President, Carolinas Region. Ms. Janson has held the position of Executive Vice President, External Affairs and President, Carolinas Region since October 2019. Prior to that, she held the position of Executive Vice President, External Affairs and Chief Legal Officer since November 2018. She originally assumed the position of Executive Vice President, Chief Legal Officer and Corporate Secretary in December 2012, and then assumed the responsibilities for External Affairs in February 2016.
Brian D. Savoy	44	Senior Vice President, Chief Transformation and Administrative Officer. Mr. Savoy assumed his current position in October 2019. Prior to that, he served as Senior Vice President, Business Transformation and Technology since May 2016; Senior Vice President, Controller and Chief Accounting Officer from September 2013 to May 2016; Director, Forecasting and Analysis from 2009 to September 2013; and Vice President and Controller of the Commercial Power segment from 2006 to 2009.
Henry K. Sideris	49	Senior Vice President, Customer Experience and Services. Mr. Sideris assumed his current position in October 2019. Prior to that, he served as Senior Vice President and Chief Distribution Officer since June 2018; State President, Florida from January 2017 to June 2018; Senior Vice President of Environmental Health and Safety from August 2014 to January 2017; and Vice President of Power Generations for the Company's Fossil/Hydro Operations in the western portions of North Carolina and South Carolina from July 2012 to August 2014.

(a) The ages of the officers provided are as of December 31, 2019.

There are no family relationships between any of the executive officers, nor any arrangement or understanding between any executive officer and any other person involved in officer selection.

Environmental Matters

The Duke Energy Registrants are subject to federal, state and local laws and regulations with regard to air and water quality, hazardous and solid waste disposal and other environmental matters. Environmental laws and regulations affecting the Duke Energy Registrants include, but are not limited to:

- The Clean Air Act, as well as state laws and regulations impacting air emissions, including State Implementation Plans related to existing and new national ambient air quality standards for ozone and particulate matter. Owners and/or operators of air emission sources are responsible for obtaining permits and for annual compliance and reporting.
- The CWA, which requires permits for facilities that discharge wastewaters into navigable waters.

BUSINESS

- The Comprehensive Environmental Response, Compensation and Liability Act, which can require any individual or entity that currently owns or in the past owned or operated a disposal site, as well as transporters or generators of hazardous substances sent to a disposal site, to share in remediation costs.
- The National Environmental Policy Act, which requires federal agencies to consider potential environmental impacts in their permitting and licensing decisions, including siting approvals.
- Coal Ash Act, as amended, which establishes requirements regarding the use and closure of existing ash basins, the disposal of ash at active coal plants and the handling of surface water and groundwater impacts from ash basins in North Carolina.
- The Solid Waste Disposal Act, as amended by the RCRA, which creates a framework for the proper management of hazardous and nonhazardous solid waste; classifies CCR as nonhazardous waste; and establishes standards for landfill and surface impoundment placement, design, operation and closure, groundwater monitoring, corrective action, and post-closure care.
- The Toxic Substances Control Act, which gives EPA the authority to require reporting, recordkeeping and testing requirements, and to place restrictions relating to chemical substances and/or mixtures, including polychlorinated biphenyls.
- The ACE rule, which will require states to develop CO₂ reduction plans based on efficiency (heat rate) improvements at coal-fired power plants.

For more information on environmental matters, see Notes 5 and 9 to the Consolidated Financial Statements, "Commitments and Contingencies – Environmental" and "Asset Retirement Obligations," respectively, and the "Other Matters" section of Management's Discussion and Analysis. Except as otherwise described in these sections, costs to comply with current federal, state and local provisions regulating the discharge of materials into the environment or other potential costs related to protecting the environment are incorporated into the routine cost structure of our various business segments and are not expected to have a material adverse effect on the competitive position, consolidated results of operations, cash flows or financial position of the Duke Energy Registrants.

The "Other Matters" section of Management's Discussion and Analysis includes an estimate of future capital expenditures required to comply with environmental regulations and a discussion of Global Climate Change including the potential impact of current and future legislation related to GHG emissions on the Duke Energy Registrants' operations. Recently passed and potential future environmental statutes and regulations could have a significant impact on the Duke Energy Registrants' results of operations, cash flows or financial position. However, if and when such statutes and regulations become effective, the Duke Energy Registrants will seek appropriate regulatory recovery of costs to comply within its regulated operations.

DUKE ENERGY CAROLINAS

Duke Energy Carolinas is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Carolinas' service area covers approximately 24,000 square miles and supplies electric service to 2.7 million residential, commercial and industrial customers. For information about Duke Energy Carolinas' generating facilities, see Item 2, "Properties." Duke Energy Carolinas is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Substantially all of Duke Energy Carolinas' operations are regulated and qualify for regulatory accounting. Duke Energy Carolinas operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

PROGRESS ENERGY

Progress Energy is a public utility holding company primarily engaged in the regulated electric utility business and is subject to regulation by the FERC. Progress Energy conducts operations through its wholly owned subsidiaries, Duke Energy Progress and Duke Energy Florida. When discussing Progress Energy's financial information, it necessarily includes the results of Duke Energy Progress and Duke Energy Florida.

Substantially all of Progress Energy's operations are regulated and qualify for regulatory accounting. Progress Energy operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY PROGRESS

Duke Energy Progress is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Progress' service area covers approximately 29,000 square miles and supplies electric service to approximately 1.6 million residential, commercial and industrial customers. For information about Duke Energy Progress' generating facilities, see Item 2, "Properties." Duke Energy Progress is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Substantially all of Duke Energy Progress' operations are regulated and qualify for regulatory accounting. Duke Energy Progress operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY FLORIDA

Duke Energy Florida is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Florida. Duke Energy Florida's service area covers approximately 13,000 square miles and supplies electric service to approximately 1.8 million residential, commercial and industrial customers. For information about Duke Energy Florida's generating facilities, see Item 2, "Properties." Duke Energy Florida is subject to the regulatory provisions of the FPSC, NRC and FERC.

Substantially all of Duke Energy Florida's operations are regulated and qualify for regulatory accounting. Duke Energy Florida operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY OHIO

Duke Energy Ohio is a regulated public utility primarily engaged in the transmission and distribution of electricity in portions of Ohio and Kentucky, in the generation and sale of electricity in portions of Kentucky and the transportation and sale of natural gas in portions of Ohio and Kentucky. Duke Energy Ohio also conducts competitive auctions for retail electricity supply in Ohio whereby recovery of the energy price is from retail customers. Operations in Kentucky are conducted through its wholly owned subsidiary, Duke Energy Kentucky. References herein to Duke Energy Ohio include Duke Energy Ohio and its subsidiaries, unless otherwise noted. Duke Energy Ohio is subject to the regulatory provisions of the PUCO, KPSC, PHMSA and FERC.

Duke Energy Ohio's service area covers approximately 3,000 square miles and supplies electric service to approximately 870,000 residential, commercial and industrial customers and provides transmission and distribution services for natural gas to approximately 542,000 customers. For information about Duke Energy Ohio's generating facilities, see Item 2, "Properties."

KO Transmission, a wholly owned subsidiary of Duke Energy Ohio, is an interstate pipeline company engaged in the business of transporting natural gas and is subject to the rules and regulations of FERC. KO Transmission's 90-mile pipeline supplies natural gas to Duke Energy Ohio and interconnects with the Columbia Gulf Transmission pipeline and Tennessee Gas Pipeline. An approximately 70-mile portion of KO Transmission's pipeline facilities is co-owned by Columbia Gas Transmission Corporation.

Substantially all of Duke Energy Ohio's operations are regulated and qualify for regulatory accounting. Duke Energy Ohio has two reportable segments, Electric Utilities and Infrastructure and Gas Utilities and Infrastructure. For additional information on these business segments, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY INDIANA

Duke Energy Indiana is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Indiana. Duke Energy Indiana's service area covers 23,000 square miles and supplies electric service to 850,000 residential, commercial and industrial customers. For information about Duke Energy Indiana's generating facilities, see Item 2, "Properties." Duke Energy Indiana is subject to the regulatory provisions of the IURC and FERC.

Substantially all of Duke Energy Indiana's operations are regulated and qualify for regulatory accounting. Duke Energy Indiana operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

PIEDMONT

Piedmont is a regulated public utility primarily engaged in the distribution of natural gas to over 1 million residential, commercial, industrial and power generation customers in portions of North Carolina, South Carolina and Tennessee, including customers served by municipalities who are wholesale customers. For information about Piedmont's natural gas distribution facilities, see Item 2, "Properties." Piedmont is subject to the regulatory provisions of the NCUC, PSCSC, TPUC, PHMSA and FERC.

Substantially all of Piedmont's operations are regulated and qualify for regulatory accounting. Piedmont operates one reportable business segment, Gas Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

ITEM 1A. RISK FACTORS

In addition to other disclosures within this Form 10-K, including "Management's Discussion and Analysis of Financial Condition and Results of Operations – Matters Impacting Future Results" for each registrant in Item 7, and other documents filed with the SEC from time to time, the following factors should be considered in evaluating Duke Energy and its subsidiaries. Such factors could affect actual results of operations and cause results to differ substantially from those currently expected or sought. Unless otherwise indicated, risk factors discussed below generally relate to risks associated with all of the Duke Energy Registrants. Risks identified at the Subsidiary Registrant level are generally applicable to Duke Energy.

RISK FACTORS

BUSINESS STRATEGY RISKS

Duke Energy's future results could be adversely affected if it is unable to implement its business strategy.

Duke Energy's results of operations depend, in significant part, on the extent to which it can implement its business strategy successfully. Duke Energy's strategy, which includes transforming the customer experience, modernizing the energy grid, generating cleaner energy and working to achieve net-zero carbon emissions by 2050, expanding the natural gas infrastructure, modernizing the regulatory construct and digital transformation, is subject to business, economic and competitive uncertainties and contingencies, many of which are beyond its control. As a consequence, Duke Energy may not be able to fully implement or realize the anticipated results of its strategy.

REGULATORY, LEGISLATIVE AND LEGAL RISKS

The Duke Energy Registrants' regulated utility revenues, earnings and results are dependent on state legislation and regulation that affect electric generation, electric and natural gas transmission, distribution and related activities, which may limit their ability to recover costs.

The Duke Energy Registrants' regulated electric and natural gas utility businesses are regulated on a cost-of-service/rate-of-return basis subject to statutes and regulatory commission rules and procedures of North Carolina, South Carolina, Florida, Ohio, Tennessee, Indiana and Kentucky. If the Duke Energy Registrants' regulated utility earnings exceed the returns established by the state utility commissions, retail electric and natural gas rates may be subject to review and possible reduction by the commissions, which may decrease the Duke Energy Registrants' earnings. Additionally, if regulatory bodies do not allow recovery of costs incurred in providing service, or do not do so on a timely basis, the Duke Energy Registrants' earnings could be negatively impacted.

If legislative and regulatory structures were to evolve in such a way that the Duke Energy Registrants' exclusive rights to serve their regulated customers were eroded, their earnings could be negatively impacted. Federal and state regulations, laws and other efforts designed to promote and expand the use of EE measures and distributed generation technologies, such as private solar and battery storage, in Duke Energy service territories could result in customers leaving the electric distribution system and an increase in customer net energy metering, which allows customers with private solar to receive bill credits for surplus power at the full retail amount. Over time, customer adoption of these technologies and increased EE could result in excess generation resources as well as stranded costs if Duke Energy is not able to fully recover the costs and investment in generation.

State regulators have approved various mechanisms to stabilize natural gas utility margins, including margin decoupling in North Carolina and rate stabilization in South Carolina. State regulators have approved other margin stabilizing mechanisms that, for example, allow for recovery of margin losses associated with negotiated transactions designed to retain large volume customers that could use alternative fuels or that may otherwise directly access natural gas supply through their own connection to an interstate pipeline. If regulators decided to discontinue the Duke Energy Registrants' use of tariff mechanisms, it would negatively impact results of operations, financial position and cash flows. In addition, regulatory authorities also review whether natural gas costs are prudently incurred and can disallow the recovery of a portion of natural gas costs that the Duke Energy Registrants seek to recover from customers, which would adversely impact earnings.

The rates that the Duke Energy Registrants' regulated utility businesses are allowed to charge are established by state utility commissions in rate case proceedings, which may limit their ability to recover costs and earn an appropriate return on investment.

The rates that the Duke Energy Registrants' regulated utility business are allowed to charge significantly influences the results of operations, financial position and cash flows of the Duke Energy Registrants. The regulation of the rates that the regulated utility businesses charge customers is determined, in large part, by state utility commissions in rate case proceedings. Negative decisions made by these regulators, or by any court on appeal of a rate case proceeding, could have a material adverse effect on the Duke Energy Registrants' results of operations, financial position or cash flows and affect the ability of the Duke Energy Registrants to recover costs and an appropriate return on the significant infrastructure investments being made.

Deregulation or restructuring in the electric industry may result in increased competition and unrecovered costs that could adversely affect the Duke Energy Registrants' results of operations, financial position or cash flows and their utility businesses.

Increased competition resulting from deregulation or restructuring legislation could have a significant adverse impact on the Duke Energy Registrants' results of operations, financial position or cash flows. If the retail jurisdictions served by the Duke Energy Registrants become subject to deregulation, the impairment of assets, loss of retail customers, lower profit margins or increased costs of capital, and recovery of stranded costs could have a significant adverse financial impact on the Duke Energy Registrants. Stranded costs primarily include the generation assets of the Duke Energy Registrants whose value in a competitive marketplace may be less than their current book value, as well as above-market purchased power commitments from QFs from whom the Duke Energy Registrants are legally obligated to purchase energy at an avoided cost rate under PURPA. The Duke Energy Registrants cannot predict the extent and timing of entry by additional competitors into the electric markets. The Duke Energy Registrants cannot predict if or when they will be subject to changes in legislation or regulation, nor can they predict the impact of these changes on their results of operations, financial position or cash flows.

RISK FACTORS

The Duke Energy Registrants' businesses are subject to extensive federal regulation and a wide variety of laws and governmental policies, including taxes, that may change over time in ways that affect operations and costs.

The Duke Energy Registrants are subject to regulations under a wide variety of U.S. federal and state regulations and policies, including by FERC, NRC, EPA and various other federal agencies as well as the North American Electric Reliability Corporation. Regulation affects almost every aspect of the Duke Energy Registrants' businesses, including, among other things, their ability to: take fundamental business management actions; determine the terms and rates of transmission and distribution services; make acquisitions; issue equity or debt securities; engage in transactions with other subsidiaries and affiliates; and pay dividends upstream to the Duke Energy Registrants. Changes to federal regulations are continuous and ongoing. There can be no assurance that laws, regulations and policies will not be changed in ways that result in material modifications of business models and objectives or affect returns on investment by restricting activities and products, subjecting them to escalating costs, causing delays, or prohibiting them outright.

The Duke Energy Registrants are subject to numerous environmental laws and regulations requiring significant capital expenditures that can increase the cost of operations, and which may impact or limit business plans, or cause exposure to environmental liabilities.

The Duke Energy Registrants are subject to numerous environmental laws and regulations affecting many aspects of their present and future operations, including CCRs, air emissions, water quality, wastewater discharges, solid waste and hazardous waste. These laws and regulations can result in increased capital, operating and other costs. These laws and regulations generally require the Duke Energy Registrants to obtain and comply with a wide variety of environmental licenses, permits, inspections and other approvals. Compliance with environmental laws and regulations can require significant expenditures, including expenditures for cleanup costs and damages arising from contaminated properties. Failure to comply with environmental regulations may result in the imposition of fines, penalties and injunctive measures affecting operating assets. The steps the Duke Energy Registrants could be required to take to ensure their facilities are in compliance could be prohibitively expensive. As a result, the Duke Energy Registrants may be required to shut down or alter the operation of their facilities, which may cause the Duke Energy Registrants to incur losses. Further, the Duke Energy Registrants may not be successful in recovering capital and operating costs incurred to comply with new environmental regulations through existing regulatory rate structures and their contracts with customers. Also, the Duke Energy Registrants may not be able to obtain or maintain from time to time all required environmental regulatory approvals for their operating assets or development projects. Delays in obtaining any required environmental regulatory approvals, failure to obtain and comply with them or changes in environmental laws or regulations to more stringent compliance levels could result in additional costs of operation for existing facilities or development of new facilities being prevented, delayed or subject to additional costs. Although it is not expected that the costs to comply with current environmental regulations will have a material adverse effect on the Duke Energy Registrants' results of operations, financial position and cash flows due to regulatory cost recovery, the Duke Energy Registrants are at risk that the costs of complying with environmental regulations in the future will have such an effect.

The EPA has enacted or proposed federal regulations governing the management of cooling water intake structures, wastewater and CO₂ emissions. These regulations may require the Duke Energy Registrants to make additional capital expenditures and increase operating and maintenance costs.

Duke Energy Carolinas and Duke Energy Progress are subject to the terms of probation set out in judgments of the U.S. District Court for the Eastern District of North Carolina on May 14, 2015. The judgments are based on events and activities that took place prior to 2015. The terms of probation require the companies to comply with certain environmental regulatory obligations related to coal ash and subject the two companies to oversight by a Court Appointed Monitor. If Duke Energy Carolinas or Duke Energy Progress failed to comply with certain coal ash-related environmental laws and regulations or otherwise violated the terms of probation, it could result in the imposition of additional penalties, including the revocation of probation and re-prosecution of the underlying violations. Although it is not expected that the companies will violate the terms of probation or that additional material penalties would occur, a significant violation of probation could have a material adverse effect on the Duke Energy Registrants' reputation, results of operations, financial position and cash flows.

The Duke Energy Registrants' operations, capital expenditures and financial results may be affected by regulatory changes related to the impacts of global climate change.

There is continued concern, both nationally and internationally, about climate change. The EPA and state regulators may adopt and implement regulations to restrict emissions of GHGs to address global climate change. Increased regulation of GHG emissions could impose significant additional costs on the Duke Energy Registrants' operations, their suppliers and customers. Regulatory changes could also result in generation facilities to be retired early and result in stranded costs if Duke Energy is not able to fully recover the costs and investment in generation.

OPERATIONAL RISKS

The Duke Energy Registrants' results of operations may be negatively affected by overall market, economic and other conditions that are beyond their control.

Sustained downturns or sluggishness in the economy generally affect the markets in which the Duke Energy Registrants operate and negatively influence operations. Declines in demand for electricity or natural gas as a result of economic downturns in the Duke Energy Registrants' regulated service territories will reduce overall sales and lessen cash flows, especially as industrial customers reduce production and, therefore, consumption of electricity and the use of natural gas. Although the Duke Energy Registrants' regulated electric and natural gas businesses are subject to regulated allowable rates of return and recovery of certain costs, such as fuel and purchased natural gas costs, under periodic adjustment clauses, overall declines in electricity or natural gas sold as a result of economic downturn or recession could reduce revenues and cash flows, thereby diminishing results of operations. Additionally, prolonged economic downturns that negatively impact the Duke Energy Registrants' results of operations and cash flows could result in future material impairment charges to write-down the carrying value of certain assets, including goodwill, to their respective fair values.

RISK FACTORS

The Duke Energy Registrants also sell electricity into the spot market or other competitive power markets on a contractual basis. With respect to such transactions, the Duke Energy Registrants are not guaranteed any rate of return on their capital investments through mandated rates, and revenues and results of operations are likely to depend, in large part, upon prevailing market prices. These market prices may fluctuate substantially over relatively short periods of time and could reduce the Duke Energy Registrants' revenues and margins, thereby diminishing results of operations.

Factors that could impact sales volumes, generation of electricity and market prices at which the Duke Energy Registrants are able to sell electricity and natural gas are as follows:

- weather conditions, including abnormally mild winter or summer weather that cause lower energy or natural gas usage for heating or cooling purposes, as applicable, and periods of low rainfall that decrease the ability to operate facilities in an economical manner;
- supply of and demand for energy commodities;
- transmission or transportation constraints or inefficiencies that impact nonregulated energy operations;
- availability of competitively priced alternative energy sources, which are preferred by some customers over electricity produced from coal, nuclear or natural gas plants, and customer usage of energy-efficient equipment that reduces energy demand;
- natural gas, crude oil and refined products production levels and prices;
- ability to procure satisfactory levels of inventory, such as coal, natural gas and uranium; and
- capacity and transmission service into, or out of, the Duke Energy Registrants' markets.

Natural disasters or operational accidents may adversely affect the Duke Energy Registrants' operating results.

Natural disasters or other operational accidents within the company or industry (such as forest fires, earthquakes, hurricanes or natural gas transmission pipeline explosions) could have direct or indirect impacts to the Duke Energy Registrants or to key contractors and suppliers. Further, the generation of electricity and the transportation and storage of natural gas involve inherent operating risks that may result in accidents involving serious injury or loss of life, environmental damage or property damage. Such events could impact the Duke Energy Registrants through changes to policies, laws and regulations whose compliance costs have a significant impact on the Duke Energy Registrants' results of operations, financial position and cash flows. In addition, if a serious operational accident were to occur, existing insurance policies may not cover all of the potential exposures or the actual amount of loss incurred. Any losses not covered by insurance, or any increases in the cost of applicable insurance as a result of such accident, could have a material adverse effect on the results of operations, financial position, cash flows and reputation of the Duke Energy Registrants.

The reputation and financial condition of the Duke Energy Registrants could be negatively impacted due to their obligations to comply with federal and state regulations, laws, and other legal requirements that govern the operations, assessments, storage, closure, remediation, disposal and monitoring relating to CCR, the high costs and new rate impacts associated with implementing these new CCR-related requirements and the strategies and methods necessary to implement these requirements in compliance with these legal obligations.

As a result of electricity produced for decades at coal-fired power plants, the Duke Energy Registrants manage large amounts of CCR that are primarily stored in dry storage within landfills or combined with water in other surface impoundments, all in compliance with applicable regulatory requirements. A CCR-related operational incident could have a material adverse impact on the reputation and results of operations, financial position and cash flows of the Duke Energy Registrants.

During 2015, EPA regulations were enacted related to the management of CCR from power plants. These regulations classify CCR as nonhazardous waste under the RCRA and apply to electric generating sites with new and existing landfills and, new and existing surface impoundments, and establish requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring, protection and remedial procedures and other operational and reporting procedures for the disposal and management of CCR. In addition to the federal regulations, CCR landfills and surface impoundments will continue to be regulated by existing state laws, regulations and permits, as well as additional legal requirements that may be imposed in the future, such as the settlement reached with the NCDEQ to excavate seven of the nine remaining coal ash basins in North Carolina, and partially excavate the remaining two. These federal and state laws, regulations and other legal requirements may require or result in additional expenditures, including increased operating and maintenance costs, which could affect the results of operations, financial position and cash flows of the Duke Energy Registrants. The Duke Energy Registrants will continue to seek full cost recovery for expenditures through the normal ratemaking process with state and federal utility commissions, who permit recovery in rates of necessary and prudently incurred costs associated with the Duke Energy Registrants' regulated operations, and through other wholesale contracts with terms that contemplate recovery of such costs, although there is no guarantee of full cost recovery. In addition, the timing for and amount of recovery of such costs could have a material adverse impact on Duke Energy's cash flows.

The Duke Energy Registrants have recognized significant AROs related to these CCR-related requirements. Closure activities began in 2015 at the four sites specified as high-priority by the Coal Ash Act and at the W.S. Lee Steam Station site in South Carolina in connection with other legal requirements. Excavation at these sites involves movement of CCR materials to off-site locations for use as structural fill, to appropriate engineered off-site or on-site lined landfills or conversion of the ash for beneficial use. Duke Energy has completed excavation of coal ash regulated by the Coal Ash Act at three of the four high priority sites. At other sites, planning and closure methods have been studied and factored into the estimated retirement and management costs, and closure activities have commenced. As the closure and CCR management work progresses and final closure plans and corrective action measures are developed and approved at each site, the scope and complexity of work and the amount of CCR material could be greater than estimates and could, therefore, materially increase compliance expenditures and rate impacts.

RISK FACTORS

The Duke Energy Registrants' results of operations, financial position and cash flows may be negatively affected by a lack of growth or slower growth in the number of customers, or decline in customer demand or number of customers.

Growth in customer accounts and growth of customer usage each directly influence demand for electricity and natural gas and the need for additional power generation and delivery facilities. Customer growth and customer usage are affected by several factors outside the control of the Duke Energy Registrants, such as mandated EE measures, demand-side management goals, distributed generation resources and economic and demographic conditions, such as population changes, job and income growth, housing starts, new business formation and the overall level of economic activity.

Certain regulatory and legislative bodies have introduced or are considering requirements and/or incentives to reduce energy consumption by certain dates. Additionally, technological advances driven by federal laws mandating new levels of EE in end-use electric devices or other improvements in or applications of technology could lead to declines in per capita energy consumption.

Advances in distributed generation technologies that produce power, including fuel cells, microturbines, wind turbines and solar cells, may reduce the cost of alternative methods of producing power to a level competitive with central power station electric production utilized by the Duke Energy Registrants.

Some or all of these factors could result in a lack of growth or decline in customer demand for electricity or number of customers and may cause the failure of the Duke Energy Registrants to fully realize anticipated benefits from significant capital investments and expenditures, which could have a material adverse effect on their results of operations, financial position and cash flows.

Furthermore, the Duke Energy Registrants currently have EE riders in place to recover the cost of EE programs in North Carolina, South Carolina, Florida, Indiana, Ohio and Kentucky. Should the Duke Energy Registrants be required to invest in conservation measures that result in reduced sales from effective conservation, regulatory lag in adjusting rates for the impact of these measures could have a negative financial impact.

The Duke Energy Registrants' operating results may fluctuate on a seasonal and quarterly basis and can be negatively affected by changes in weather conditions and severe weather, including extreme weather conditions associated with climate change.

Electric power generation and natural gas distribution are generally seasonal businesses. In most parts of the U.S., the demand for power peaks during the warmer summer months, with market prices also typically peaking at that time. In other areas, demand for power peaks during the winter. Demand for natural gas peaks during the winter months. Further, extreme weather conditions such as hurricanes, droughts, heat waves, winter storms and severe weather associated with climate change could cause these seasonal fluctuations to be more pronounced. As a result, the overall operating results of the Duke Energy Registrants' businesses may fluctuate substantially on a seasonal and quarterly basis and thus make period-to-period comparison less relevant.

Sustained severe drought conditions could impact generation by hydroelectric plants, as well as fossil and nuclear plant operations, as these facilities use water for cooling purposes and for the operation of environmental compliance equipment. Furthermore, destruction caused by severe weather events, such as hurricanes, tornadoes, severe thunderstorms, snow and ice storms, can result in lost operating revenues due to outages, property damage, including downed transmission and distribution lines, and additional and unexpected expenses to mitigate storm damage. The cost of storm restoration efforts may not be fully recoverable through the regulatory process.

The Duke Energy Registrants' sales may decrease if they are unable to gain adequate, reliable and affordable access to transmission assets.

The Duke Energy Registrants depend on transmission and distribution facilities owned and operated by utilities and other energy companies to deliver electricity sold to the wholesale market. The FERC's power transmission regulations require wholesale electric transmission services to be offered on an open-access, non-discriminatory basis. If transmission is disrupted, or if transmission capacity is inadequate, the Duke Energy Registrants' ability to sell and deliver products may be hindered.

The different regional power markets have changing regulatory structures, which could affect growth and performance in these regions. In addition, the ISOs who oversee the transmission systems in regional power markets have imposed in the past, and may impose in the future, price limitations and other mechanisms to address volatility in the power markets. These types of price limitations and other mechanisms may adversely impact the profitability of the Duke Energy Registrants' wholesale power marketing business.

Duke Energy may be unable to complete necessary or desirable pipeline expansion or infrastructure development or maintenance projects, which may prevent the Duke Energy Registrants from expanding the natural gas business.

In order to serve current or new natural gas customers or expand the service to existing customers, the Duke Energy Registrants need to maintain, expand or upgrade distribution, transmission and/or storage infrastructure, including laying new pipeline and building compressor stations. Duke Energy Registrants have made significant investments in pipeline development projects, which are being operated and constructed by third-party joint venture partners. The Duke Energy Registrants must rely on their third-party joint venture partners for proper construction management of the projects and are dependent upon contractors for the successful and timely completion of the projects. In addition, various factors, such as the inability to obtain required approval from local, state and/or federal regulatory and governmental bodies, public opposition to projects, adverse litigation rulings, inability to obtain adequate financing, competition for labor and materials, construction delays, cost overruns and the inability to negotiate acceptable agreements relating to rights of way, construction or other material development components, may prevent or delay the completion of projects or materially increase the cost of such projects, which could have a material adverse effect on the results of operations and financial position of Duke Energy.

RISK FACTORS

The availability of adequate interstate pipeline transportation capacity and natural gas supply may decrease.

The Duke Energy Registrants purchase almost all of their natural gas supply from interstate sources that must be transported to the applicable service territories. Interstate pipeline companies transport the natural gas to the Duke Energy Registrants' systems under firm service agreements that are designed to meet the requirements of their core markets. A significant disruption to interstate pipelines capacity or reduction in natural gas supply due to events including, but not limited to, operational failures or disruptions, hurricanes, tornadoes, floods, freeze off of natural gas wells, terrorist or cyberattacks or other acts of war or legislative or regulatory actions or requirements, including remediation related to integrity inspections, could reduce the normal interstate supply of natural gas and thereby reduce earnings. Moreover, if additional natural gas infrastructure, including, but not limited to, exploration and drilling rigs and platforms, processing and gathering systems, off-shore pipelines, interstate pipelines and storage, cannot be built at a pace that meets demand, then growth opportunities could be limited.

Fluctuations in commodity prices or availability may adversely affect various aspects of the Duke Energy Registrants' operations as well as their results of operations, financial position and cash flows.

The Duke Energy Registrants are exposed to the effects of market fluctuations in the price of natural gas, coal, fuel oil, nuclear fuel, electricity and other energy-related commodities as a result of their ownership of energy-related assets. Fuel costs are recovered primarily through cost-recovery clauses, subject to the approval of state utility commissions.

Additionally, the Duke Energy Registrants are exposed to risk that counterparties will not be able to fulfill their obligations. Disruption in the delivery of fuel, including disruptions as a result of, among other things, transportation delays, weather, labor relations, force majeure events or environmental regulations affecting any of these fuel suppliers, could limit the Duke Energy Registrants' ability to operate their facilities. Should counterparties fail to perform, the Duke Energy Registrants might be forced to replace the underlying commitment at prevailing market prices possibly resulting in losses in addition to the amounts, if any, already paid to the counterparties.

Certain of the Duke Energy Registrants' hedge agreements may result in the receipt of, or posting of, collateral with counterparties, depending on the daily market-based calculation of financial exposure of the derivative positions. Fluctuations in commodity prices that lead to the return of collateral received and/or the posting of collateral with counterparties could negatively impact liquidity. Downgrades in the Duke Energy Registrants' credit ratings could lead to additional collateral posting requirements. The Duke Energy Registrants continually monitor derivative positions in relation to market price activity.

Potential terrorist activities, or military or other actions, could adversely affect the Duke Energy Registrants' businesses.

The continued threat of terrorism and the impact of retaliatory military and other action by the U.S. and its allies may lead to increased political, economic and financial market instability and volatility in prices for natural gas and oil, which may have material adverse effects in ways the Duke Energy Registrants cannot predict at this time. In addition, future acts of terrorism and possible reprisals as a consequence of action by the U.S. and its allies could be directed against companies operating in the U.S. Information technology systems, transmission and distribution and generation facilities such as nuclear plants could be potential targets of terrorist activities or harmful activities by individuals or groups that could have a material adverse effect on Duke Energy Registrants' businesses. In particular, the Duke Energy Registrants may experience increased capital and operating costs to implement increased security for their information technology systems, transmission and distribution and generation facilities, including nuclear power plants under the NRC's design basis threat requirements. These increased costs could include additional physical plant security and security personnel or additional capability following a terrorist incident.

The failure of Duke Energy information technology systems, or the failure to enhance existing information technology systems and implement new technology, could adversely affect the Duke Energy Registrants' businesses.

Duke Energy's operations are dependent upon the proper functioning of its internal systems, including the information technology systems that support our underlying business processes. Any significant failure or malfunction of such information technology systems may result in disruptions of our operations. In the ordinary course of business, we rely on information technology systems, including the internet and third-party hosted services, to support a variety of business processes and activities and to store sensitive data, including (i) intellectual property, (ii) proprietary business information, (iii) personally identifiable information of our customers, employees, retirees and shareholders and (iv) data with respect to invoicing and the collection of payments, accounting, procurement, and supply chain activities. Our information technology systems are dependent upon global communications and cloud service providers, as well as their respective vendors, many of whom have at some point experienced significant system failures and outages in the past and may experience such failures and outages in the future. These providers' systems are susceptible to cybersecurity and data breaches, outages from fire, floods, power loss, telecommunications failures, break-ins and similar events. Failure to prevent or mitigate data loss from system failures or outages could materially affect the results of operations, financial position and cash flows of the Duke Energy Registrants.

In addition to maintaining our current information technology systems, Duke Energy believes the digital transformation of its business is key to driving internal efficiencies as well as providing additional capabilities to customers. Duke Energy's information technology systems are critical to cost-effective, reliable daily operations and our ability to effectively serve our customers. We expect our customers to continue to demand more sophisticated technology-driven solutions and we must enhance or replace our information technology systems in response. This involves significant development and implementation costs to keep pace with changing technologies and customer demand. If we fail to successfully implement critical technology, or if it does not provide the anticipated benefits or meet customer demands, such failure could materially adversely affect our business strategy as well as impact the results of operations, financial position and cash flows of the Duke Energy Registrants.

RISK FACTORS

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Cyberattacks and data security breaches could adversely affect the Duke Energy Registrants' businesses.

Cybersecurity risks have increased in recent years as a result of the proliferation of new technologies and the increased sophistication, magnitude and frequency of cyberattacks and data security breaches. Duke Energy relies on the continued operation of sophisticated digital information technology systems and network infrastructure, which are part of an interconnected regional grid. Additionally, connectivity to the internet continues to increase through grid modernization and other operational excellence initiatives. Because of the critical nature of the infrastructure, increased connectivity to the internet and technology systems' inherent vulnerability to disability or failures due to hacking, viruses, acts of war or terrorism or other types of data security breaches, the Duke Energy Registrants face a heightened risk of cyberattack from foreign or domestic sources and have been subject, and will likely continue to be subject, to attempts to gain unauthorized access to information and/or information systems or to disrupt utility operations through computer viruses and phishing attempts either directly or indirectly through its material vendors or related third parties. In the event of a significant cybersecurity breach on either the Duke Energy Registrants or with one of our material vendors or related third parties, the Duke Energy Registrants could (i) have business operations disrupted, including the disruption of the operation of our assets and the power grid, theft of confidential company, employee, retiree, shareholder, vendor or customer information, and general business systems and process interruption or compromise, including preventing the Duke Energy Registrants from servicing customers, collecting revenues or the recording, processing and/or reporting financial information correctly, (ii) experience substantial loss of revenues, repair and restoration costs, penalties and costs for lack of compliance with relevant regulations, implementation costs for additional security measures to avert future cyberattacks and other financial loss and (iii) be subject to increased regulation, litigation and reputational damage. While Duke Energy maintains insurance relating to cybersecurity events, such insurance is subject to a number of exclusions and may be insufficient to offset any losses, costs or damage experienced. Also, the market for cybersecurity insurance is relatively new and coverage available for cybersecurity events is evolving as the industry matures.

The Duke Energy Registrants are subject to standards enacted by the North American Electric Reliability Corporation and enforced by FERC regarding protection of the physical and cyber security of critical infrastructure assets required for operating North America's bulk electric system. The Duke Energy Registrants are also subject to regulations set by the Nuclear Regulatory Commission regarding the protection of digital computer and communication systems and networks required for the operation of nuclear power plants. While the Duke Energy Registrants believe they are in compliance with such standards and regulations, the Duke Energy Registrants have from time to time been, and may in the future be, found to be in violation of such standards and regulations. In addition, compliance with or changes in the applicable standards and regulations may subject the Duke Energy Registrants to higher operating costs and/or increased capital expenditures as well as substantial fines for non-compliance.

Failure to attract and retain an appropriately qualified workforce could unfavorably impact the Duke Energy Registrants' results of operations.

Certain events, such as an aging workforce, mismatch of skill set or complement to future needs, or unavailability of contract resources may lead to operating challenges and increased costs. The challenges include lack of resources, loss of knowledge base and the lengthy time required for skill development. In this case, costs, including costs for contractors to replace employees, productivity costs and safety costs, may increase. Failure to hire and adequately train replacement employees, including the transfer of significant internal historical knowledge and expertise to new employees, or future availability and cost of contract labor may adversely affect the ability to manage and operate the business, especially considering the workforce needs associated with nuclear generation facilities and new skills required to operate a modernized, technology-enabled power grid. If the Duke Energy Registrants are unable to successfully attract and retain an appropriately qualified workforce, their results of operations, financial position and cash flows could be negatively affected.

Duke Energy Ohio's and Duke Energy Indiana's membership in an RTO presents risks that could have a material adverse effect on their results of operations, financial position and cash flows.

The rules governing the various regional power markets may change, which could affect Duke Energy Ohio's and Duke Energy Indiana's costs and/or revenues. To the degree Duke Energy Ohio and Duke Energy Indiana incur significant additional fees and increased costs to participate in an RTO, their results of operations may be impacted. Duke Energy Ohio and Duke Energy Indiana may be allocated a portion of the cost of transmission facilities built by others due to changes in RTO transmission rate design. Duke Energy Ohio and Duke Energy Indiana may be required to expand their transmission system according to decisions made by an RTO rather than their own internal planning process. In addition, RTOs have been developing rules associated with the allocation and methodology of assigning costs associated with improved transmission reliability, reduced transmission congestion and firm transmission rights that may have a financial impact on the results of operations, financial position and cash flows of Duke Energy Ohio and Duke Energy Indiana.

As members of an RTO, Duke Energy Ohio and Duke Energy Indiana are subject to certain additional risks, including those associated with the allocation among RTO members, of losses caused by unreimbursed defaults of other participants in the RTO markets and those associated with complaint cases filed against an RTO that may seek refunds of revenues previously earned by RTO members.

The Duke Energy Registrants may not recover costs incurred to begin construction on projects that are canceled.

Duke Energy's long-term strategy requires the construction of new projects, either wholly owned or partially owned, which involve a number of risks, including construction delays, nonperformance by equipment and other third-party suppliers, and increases in equipment and labor costs. To limit the risks of these construction projects, the Duke Energy Registrants enter into equipment purchase orders and construction contracts and incur engineering and design service costs in advance of receiving necessary regulatory approvals and/or siting or environmental permits. If any of these projects are canceled for any reason, including failure to receive necessary regulatory approvals and/or siting or environmental permits, significant cancellation penalties under the equipment purchase orders and construction contracts could occur. In addition, if any construction work or investments have been recorded as an asset, an impairment may need to be recorded in the event the project is canceled.

RISK FACTORS

The Duke Energy Registrants are subject to risks associated with their ability to obtain adequate insurance at acceptable costs.

The financial condition of some insurance companies, actual or threatened physical or cyber attacks, and natural disasters, among other things, could have disruptive effects on insurance markets. The availability of insurance covering risks that the Duke Energy Registrants and their respective competitors typically insure against may decrease, and the insurance that the Duke Energy Registrants are able to obtain may have higher deductibles, higher premiums, and more restrictive policy terms. Further, the insurance policies may not cover all of the potential exposures or the actual amount of loss incurred. Any losses not covered by insurance, or any increases in the cost of applicable insurance, could adversely affect the results of operations, financial position or cash flows of the affected Duke Energy Registrant.

NUCLEAR GENERATION RISKS

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida may incur substantial costs and liabilities due to their ownership and operation of nuclear generating facilities.

Ownership interests in and operation of nuclear stations by Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida subject them to various risks. These risks include, among other things: the potential harmful effects on the environment and human health resulting from the current or past operation of nuclear facilities and the storage, handling and disposal of radioactive materials; limitations on the amounts and types of insurance commercially available to cover losses that might arise in connection with nuclear operations; and uncertainties with respect to the technological and financial aspects of decommissioning nuclear plants at the end of their licensed lives.

Ownership and operation of nuclear generation facilities requires compliance with licensing and safety-related requirements imposed by the NRC. In the event of non-compliance, the NRC may increase regulatory oversight, impose fines or shut down a unit depending upon its assessment of the severity of the situation. Revised security and safety requirements promulgated by the NRC, which could be prompted by, among other things, events within or outside of the control of Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, such as a serious nuclear incident at a facility owned by a third party, could necessitate substantial capital and other expenditures, as well as assessments to cover third-party losses. In addition, if a serious nuclear incident were to occur, it could have a material adverse effect on the results of operations, financial position, cash flows and reputation of the Duke Energy Registrants.

LIQUIDITY, CAPITAL REQUIREMENTS AND COMMON STOCK RISKS

The Duke Energy Registrants rely on access to short-term borrowings and longer-term debt and equity markets to finance their capital requirements and support their liquidity needs. Access to those markets can be adversely affected by a number of conditions, many of which are beyond the Duke Energy Registrants' control.

The Duke Energy Registrants' businesses are significantly financed through issuances of debt and equity. The maturity and repayment profile of debt used to finance investments often does not correlate to cash flows from their assets. Accordingly, as a source of liquidity for capital requirements not satisfied by the cash flows from their operations and to fund investments originally financed through debt instruments with disparate maturities, the Duke Energy Registrants rely on access to short-term money markets as well as longer-term capital markets. The Subsidiary Registrants also rely on access to short-term intercompany borrowings. If the Duke Energy Registrants are not able to access debt or equity at competitive rates or at all, the ability to finance their operations and implement their strategy and business plan as scheduled could be adversely affected. An inability to access debt and equity may limit the Duke Energy Registrants' ability to pursue improvements or acquisitions that they may otherwise rely on for future growth.

Market disruptions may increase the cost of borrowing or adversely affect the ability to access one or more financial markets. Such disruptions could include: economic downturns, the bankruptcy of an unrelated energy company, unfavorable capital market conditions, market prices for electricity and natural gas, actual or threatened terrorist attacks, or the overall health of the energy industry. The availability of credit under Duke Energy's Master Credit Facility depends upon the ability of the banks providing commitments under the facility to provide funds when their obligations to do so arise. Systematic risk of the banking system and the financial markets could prevent a bank from meeting its obligations under the facility agreement.

Duke Energy maintains a revolving credit facility to provide backup for its commercial paper program and letters of credit to support variable rate demand tax-exempt bonds that may be put to the Duke Energy Registrant issuer at the option of the holder. The facility includes borrowing sublimits for the Duke Energy Registrants, each of whom is a party to the credit facility, and financial covenants that limit the amount of debt that can be outstanding as a percentage of the total capital for the specific entity. Failure to maintain these covenants at a particular entity could preclude Duke Energy from issuing commercial paper or the Duke Energy Registrants from issuing letters of credit or borrowing under the Master Credit Facility.

The Duke Energy Registrants must meet credit quality standards and there is no assurance they will maintain investment grade credit ratings. If the Duke Energy Registrants are unable to maintain investment grade credit ratings, they would be required under credit agreements to provide collateral in the form of letters of credit or cash, which may materially adversely affect their liquidity.

Each of the Duke Energy Registrants' senior long-term debt issuances is currently rated investment grade by various rating agencies. The Duke Energy Registrants cannot ensure their senior long-term debt will be rated investment grade in the future.

If the rating agencies were to rate the Duke Energy Registrants below investment grade, borrowing costs would increase, perhaps significantly. In addition, the potential pool of investors and funding sources would likely decrease. Further, if the short-term debt rating were to fall, access to the commercial paper market could be significantly limited.

A downgrade below investment grade could also require the posting of additional collateral in the form of letters of credit or cash under various credit, commodity and capacity agreements and trigger termination clauses in some interest rate derivative agreements, which would require cash payments. All of these events would likely reduce the Duke Energy Registrants' liquidity and profitability and could have a material effect on their results of operations, financial position and cash flows.

RISK FACTORS

Non-compliance with debt covenants or conditions could adversely affect the Duke Energy Registrants' ability to execute future borrowings.

The Duke Energy Registrants' debt and credit agreements contain various financial and other covenants. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements.

Market performance and other changes may decrease the value of the NDTF investments of Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, which then could require significant additional funding.

Ownership and operation of nuclear generation facilities also requires the maintenance of funded trusts that are intended to pay for the decommissioning costs of the respective nuclear power plants. The performance of the capital markets affects the values of the assets held in trust to satisfy these future obligations. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida have significant obligations in this area and hold significant assets in these trusts. These assets are subject to market fluctuations and will yield uncertain returns, which may fall below projected rates of return. Although a number of factors impact funding requirements, a decline in the market value of the assets may increase the funding requirements of the obligations for decommissioning nuclear plants. If Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are unable to successfully manage their NDTF assets, their results of operations, financial position and cash flows could be negatively affected.

Poor investment performance of the Duke Energy pension plan holdings and other factors impacting pension plan costs could unfavorably impact the Duke Energy Registrants' liquidity and results of operations.

The costs of providing non-contributory defined benefit pension plans are dependent upon a number of factors, such as the rates of return on plan assets, discount rates, the level of interest rates used to measure the required minimum funding levels of the plans, future government regulation and required or voluntary contributions made to the plans. The Subsidiary Registrants are allocated their proportionate share of the cost and obligations related to these plans. Without sustained growth in the pension investments over time to increase the value of plan assets and, depending upon the other factors impacting costs as listed above, Duke Energy could be required to fund its plans with significant amounts of cash. Such cash funding obligations, and the Subsidiary Registrants' proportionate share of such cash funding obligations, could have a material impact on the Duke Energy Registrants' results of operations, financial position and cash flows.

Duke Energy is a holding company and depends on the cash flows from its subsidiaries to meet its financial obligations.

Because Duke Energy is a holding company with no operations or cash flows of its own, its ability to meet its financial obligations, including making interest and principal payments on outstanding indebtedness and to pay dividends on its common stock, is primarily dependent on the net income and cash flows of its subsidiaries and the ability of those subsidiaries to pay upstream dividends or to repay borrowed funds. Prior to funding Duke Energy, its subsidiaries have regulatory restrictions and financial obligations that must be satisfied. These subsidiaries are separate legal entities and have no obligation to provide Duke Energy with funds. In addition, Duke Energy may provide capital contributions or debt financing to its subsidiaries under certain circumstances, which would reduce the funds available to meet its financial obligations, including making interest and principal payments on outstanding indebtedness and to pay dividends on Duke Energy's common stock.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

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PROPERTIES

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ITEM 2. PROPERTIES

ELECTRIC UTILITIES AND INFRASTRUCTURE

The following table provides information related to the Electric Utilities and Infrastructure's generation stations as of December 31, 2019. The MW displayed in the table below are based on summer capacity. Ownership interest in all facilities is 100% unless otherwise indicated.

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Carolinas				
Oconee	Nuclear	Uranium	SC	2,554
McGuire	Nuclear	Uranium	NC	2,316
Catawba ^(a)	Nuclear	Uranium	SC	445
Belews Creek	Fossil	Coal	NC	2,220
Marshall	Fossil	Coal	NC	2,058
J.E. Rogers	Fossil	Coal	NC	1,388
Lincoln CT	Fossil	Gas/Oil	NC	1,193
Allen	Fossil	Coal	NC	1,098
Rockingham CT	Fossil	Gas/Oil	NC	825
W.S. Lee CC ^(b)	Fossil	Gas	NC	686
Buck CC	Fossil	Gas	NC	668
Dan River CC	Fossil	Gas	NC	662
Mill Creek CT	Fossil	Gas/Oil	SC	563
W.S. Lee	Fossil	Gas	SC	170
W.S. Lee CT	Fossil	Gas/Oil	SC	84
Clemson CHP	Fossil	Gas	SC	13
Bad Creek	Hydro	Water	SC	1,360
Jocassee	Hydro	Water	SC	780
Cowans Ford	Hydro	Water	NC	324
Keowee	Hydro	Water	SC	152
Other small facilities (19 plants)	Hydro	Water	NC/SC	603
Distributed generation	Renewable	Solar	NC	30
Total Duke Energy Carolinas				20,192

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Progress				
Brunswick	Nuclear	Uranium	NC	1,870
Harris	Nuclear	Uranium	NC	964
Robinson	Nuclear	Uranium	SC	741
Roxboro	Fossil	Coal	NC	2,439
Smith CC	Fossil	Gas/Oil	NC	1,085
H.F. Lee CC	Fossil	Gas/Oil	NC	888
Wayne County CT	Fossil	Gas/Oil	NC	857
Smith CT	Fossil	Gas/Oil	NC	772
Mayo	Fossil	Coal	NC	727
Darlington CT	Fossil	Gas/Oil	SC	613
L.V. Sutton CC	Fossil	Gas/Oil	NC	607
Asheville	Fossil	Coal	NC	344
Asheville CT	Fossil	Gas/Oil	NC	320
Asheville CC	Fossil	Gas/Oil	NC	237
Weatherspoon CT	Fossil	Gas/Oil	NC	124
L.V. Sutton CT (Black Start)	Fossil	Gas/Oil	NC	78
Blewett CT	Fossil	Oil	NC	52
Walters	Hydro	Water	NC	112
Other small facilities (3 plants)	Hydro	Water	NC	115
Distributed generation	Renewable	Solar	NC	49
Total Duke Energy Progress				12,994

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PROPERTIES

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Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Florida				
Hines CC	Fossil	Gas/Oil	FL	2,054
Citrus County CC	Fossil	Gas	FL	1,610
Crystal River	Fossil	Coal	FL	1,422
Bartow CC	Fossil	Gas/Oil	FL	1,169
Anclote	Fossil	Gas	FL	1,013
Intercession City CT	Fossil	Gas/Oil	FL	951
Osprey CC	Fossil	Gas/Oil	FL	583
DeBary CT	Fossil	Gas/Oil	FL	559
Tiger Bay CC	Fossil	Gas/Oil	FL	200
Bayboro CT	Fossil	Oil	FL	171
Bartow CT	Fossil	Gas/Oil	FL	168
Suwannee River CT	Fossil	Gas	FL	149
Avon Park CT	Fossil	Gas/Oil	FL	48
University of Florida CoGen CT	Fossil	Gas	FL	43
Distributed generation	Renewable	Solar	FL	119
Total Duke Energy Florida				10,259

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Ohio				
East Bend	Fossil	Coal	KY	600
Woodsdale CT	Fossil	Gas/Propane	OH	476
Total Duke Energy Ohio				1,076

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Indiana				
Gibson ^(c)	Fossil	Coal	IN	2,822
Cayuga ^(d)	Fossil	Coal/Oil	IN	1,005
Edwardsport	Fossil	Coal	IN	595
Madison CT	Fossil	Gas	OH	566
Wheatland CT	Fossil	Gas	IN	450
Vermillion CT ^(e)	Fossil	Gas	IN	360
Gallagher	Fossil	Coal	IN	280
Noblesville CC	Fossil	Gas/Oil	IN	264
Henry County CT	Fossil	Gas/Oil	IN	129
Cayuga CT	Fossil	Gas/Oil	IN	86
Markland	Hydro	Water	IN	51
Distributed generation	Renewable	Solar	IN	11
Camp Atterbury Battery	Renewable	Storage	IN	4
Total Duke Energy Indiana				6,623

Totals by Type	Owned MW Capacity
Total Electric Utilities	51,144
Totals By Plant Type	
Nuclear	8,890
Fossil	38,544
Hydro	3,497
Renewable	213
Total Electric Utilities	51,144

- (a) Jointly owned with North Carolina Municipal Power Agency Number 1, NCEMC and PMPA. Duke Energy Carolinas' ownership is 19.25% of the facility.
- (b) Jointly owned with NCEMC. Duke Energy Carolinas' ownership is 87.27% of the facility.
- (c) Duke Energy Indiana owns and operates Gibson Station Units 1 through 4 and is a joint owner of unit 5 with WVPA and IMPA. Duke Energy Indiana operates unit 5 and owns 50.05%.

PROPERTIES

G-9 Item 30
Attachment 4 of 16

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- (d) Includes Cayuga Internal Combustion.
 (e) Jointly owned with WVPA. Duke Energy Indiana's ownership is 62.50% of the facility.

The following table provides information related to Electric Utilities and Infrastructure's electric transmission and distribution properties as of December 31, 2019.

	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Electric Transmission Lines						
Miles of 500 to 525 kilovolt (kV)	1,036	576	292	168	—	—
Miles of 345 kV	1,135	—	—	—	410	725
Miles of 230 kV	8,349	2,658	3,399	1,638	—	654
Miles of 100 to 161 kV	12,441	6,846	2,563	891	724	1,417
Miles of 13 to 69 kV	8,351	2,988	12	2,200	612	2,539
Total conductor miles of electric transmission lines	31,312	13,068	6,266	4,897	1,746	5,335
Electric Distribution Lines						
Miles of overhead lines	173,800	66,600	46,500	25,200	13,300	22,200
Miles of underground line	106,300	39,500	30,700	20,900	6,100	9,100
Total conductor miles of electric distribution lines	280,100	106,100	77,200	46,100	19,400	31,300
Number of electric transmission and distribution substations	3,316	1,491	512	496	314	503

Substantially all of Electric Utilities and Infrastructure's electric plant in service is mortgaged under indentures relating to Duke Energy Carolinas', Duke Energy Progress', Duke Energy Florida's, Duke Energy Ohio's and Duke Energy Indiana's various series of First Mortgage Bonds.

GAS UTILITIES AND INFRASTRUCTURE

Gas Utilities and Infrastructure owns transmission pipelines and distribution mains that are generally underground, located near public streets and highways, or on property owned by others for which Duke Energy Ohio and Piedmont have obtained the necessary legal rights to place and operate facilities on such property located within the Gas Utilities and Infrastructure service territories. The following table provides information related to Gas Utilities and Infrastructure's natural gas distribution.

	Duke Energy	Duke Energy Ohio	Piedmont
Miles of natural gas distribution and transmission pipelines	33,700	7,300	26,400
Miles of natural gas service lines	27,200	6,300	20,900

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COMMERCIAL RENEWABLES

The following table provides information related to Commercial Renewables' electric generation facilities as of December 31, 2019. The MW displayed in the table below are based on nameplate capacity.

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity	Ownership Interest (%)
Commercial Renewables – Wind					
Los Vientos (five sites)	Renewable	Wind	TX	465	51%
Mesteno ^(a)	Renewable	Wind	TX	202	100%
Sweetwater IV	Renewable	Wind	TX	113	47%
Frontier	Renewable	Wind	OK	103	51%
Top of the World	Renewable	Wind	WY	102	51%
Notrees	Renewable	Wind	TX	78	51%
Mesquite Creek	Renewable	Wind	TX	55	26%
Campbell Hill	Renewable	Wind	WY	50	51%
Ironwood	Renewable	Wind	KS	44	26%
Sweetwater V	Renewable	Wind	TX	38	47%
North Allegheny	Renewable	Wind	PA	36	51%
Laurel Hill	Renewable	Wind	PA	35	51%
Cimarron II	Renewable	Wind	KS	33	26%
Ocotillo	Renewable	Wind	TX	30	51%
Kit Carson	Renewable	Wind	CO	26	51%
Silver Sage	Renewable	Wind	WY	21	51%
Happy Jack	Renewable	Wind	WY	15	51%
Shirley	Renewable	Wind	WI	10	51%
Total Renewables – Wind				1,456	
Commercial Renewables – Solar					
North Rosamond ^(a)	Renewable	Solar	CA	150	100%
Lapetus ^(a)	Renewable	Solar	TX	100	100%
Conetoe II	Renewable	Solar	NC	80	100%
Seville I & II	Renewable	Solar	CA	34	67%
Rio Bravo I & II	Renewable	Solar	CA	27	67%
Wildwood I & II	Renewable	Solar	CA	23	67%
Kelford	Renewable	Solar	NC	22	100%
Dogwood	Renewable	Solar	NC	20	100%
Halifax Airport	Renewable	Solar	NC	20	100%
Pasquotank	Renewable	Solar	NC	20	100%
Shawboro	Renewable	Solar	NC	20	100%
Caprock	Renewable	Solar	NM	17	67%
Creswell Alligood	Renewable	Solar	NC	14	100%
Pumpjack	Renewable	Solar	CA	13	67%
Longboat	Renewable	Solar	CA	13	67%
Shoreham ^(a)	Renewable	Solar	NY	13	51%
Washington White Post	Renewable	Solar	NC	12	100%
Whitakers	Renewable	Solar	NC	12	100%
Highlander I & II	Renewable	Solar	CA	11	51%
Other small solar ^(a)	Renewable	Solar	Various	177	Various
Total Renewables – Solar				798	
Commercial Renewables – Fuel Cells					
2018 ESA Portfolio ^(a)	Renewable	Fuel Cell	Various	10	100%
Total Renewables – Fuel Cells				10	
Commercial Renewables – Energy Storage					
Notrees Battery Storage	Renewable	Storage	TX	18	51%
Total Renewables – Energy Storage				18	
Total Commercial Renewables				2,282	

(a) Certain projects, including projects within Other small solar, are in tax-equity structures where investors have differing interests in the project's economic attributes. 100% of the tax-equity project's capacity is included in the table above.

OTHER

Duke Energy owns approximately 8 million square feet and leases approximately 2 million square feet of corporate, regional and district office space spread throughout its service territories.

ITEM 3. LEGAL PROCEEDINGS

For information regarding legal proceedings, including regulatory and environmental matters, see Note 4, "Regulatory Matters," and Note 5, "Commitments and Contingencies," to the Consolidated Financial Statements.

MTBE Litigation

On December 15, 2017, the state of Maryland filed suit in Baltimore City Circuit Court against Duke Energy Merchants and other defendants alleging contamination of state waters by MTBE leaking from gasoline storage tanks. MTBE is a gasoline additive intended to increase the oxygen levels in gasoline and make it burn cleaner. The case was removed from Baltimore City Circuit Court to federal District Court. Initial motions to dismiss filed by the defendants were denied by the court on September 4, 2019. The defendants have filed answers and will pursue summary judgment after the completion of discovery. Duke Energy cannot predict the outcome of this matter.

ITEM 4. MINE SAFETY DISCLOSURES

This is not applicable for any of the Duke Energy Registrants.

SECURITIES INFORMATION

ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

The common stock of Duke Energy is listed and traded on the NYSE (ticker symbol DUK). As of January 31, 2020, there were 140,942 Duke Energy common stockholders of record. For information on dividends, see the "Dividend Payments" section of Management's Discussion and Analysis.

There is no market for the common equity securities of the Subsidiary Registrants, all of which are directly or indirectly owned by Duke Energy.

Securities Authorized for Issuance Under Equity Compensation Plans

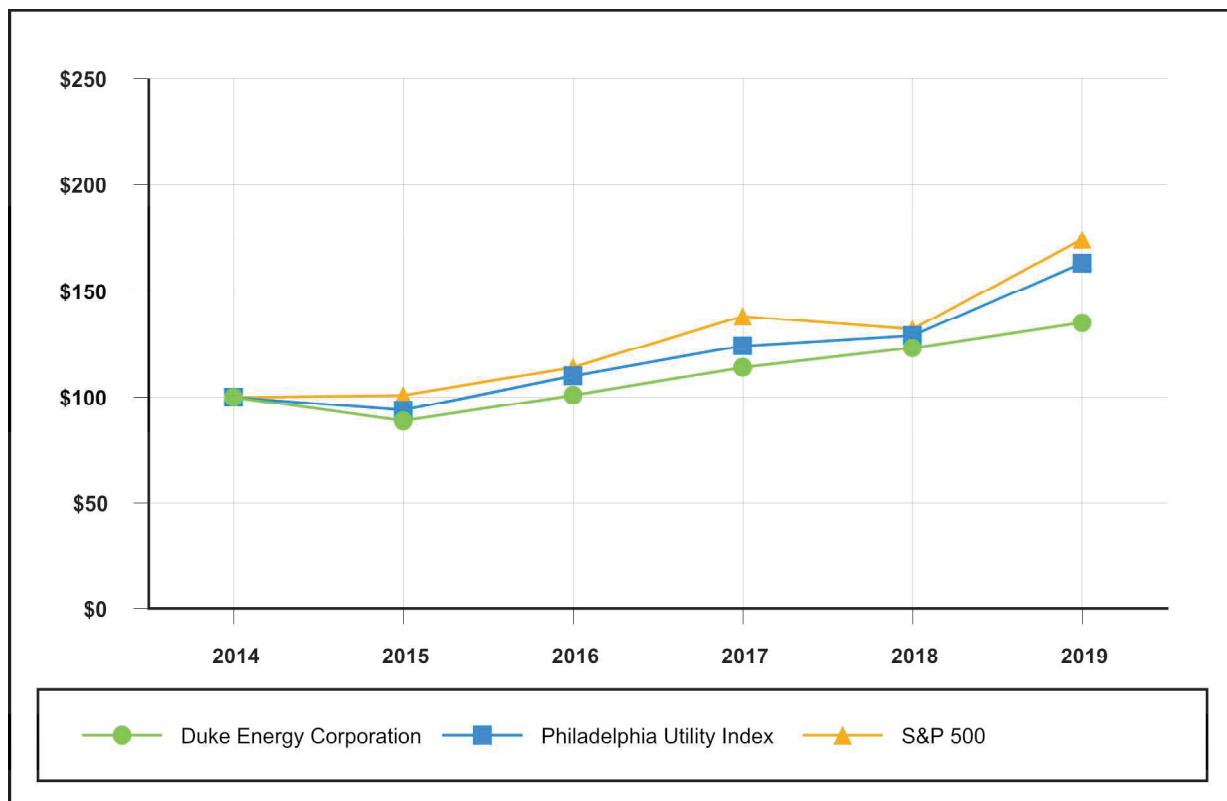
See Item 12 of Part III within this Annual Report for information regarding Securities Authorized for Issuance Under Equity Compensation Plans.

Issuer Purchases of Equity Securities for Fourth Quarter 2019

There were no repurchases of equity securities during the fourth quarter of 2019.

Stock Performance Graph

The following performance graph compares the cumulative TSR from Duke Energy Corporation common stock, as compared with the Standard & Poor's 500 Stock Index (S&P 500) and the Philadelphia Utility Index for the past five years. The graph assumes an initial investment of \$100 on December 31, 2014, in Duke Energy common stock, in the S&P 500 and in the Philadelphia Utility Index and that all dividends were reinvested. The stockholder return shown below for the five-year historical period may not be indicative of future performance.



NYSE CEO Certification

Duke Energy has filed the certification of its Chief Executive Officer and Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 as exhibits to this Annual Report on Form 10-K for the year ended December 31, 2019.

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SELECTED FINANCIAL DATA

ITEM 6. SELECTED FINANCIAL DATA

The following table provides selected financial data for the years of 2015 through 2019. See also Item 7.

(in millions, except per share amounts)	2019	2018	2017	2016	2015
Statements of Operations^(a)					
Total operating revenues	\$ 25,079	\$ 24,521	\$ 23,565	\$ 22,743	\$ 22,371
Operating income	5,709	4,685	5,625	5,202	4,974
Income from continuing operations	3,578	2,625	3,070	2,578	2,654
(Loss) Income from discontinued operations, net of tax	(7)	19	(6)	(408)	177
Net income	3,571	2,644	3,064	2,170	2,831
Net income available to Duke Energy Corporation common stockholders	3,707	2,666	3,059	2,152	2,816
Common Stock Data					
Income from continuing operations available to Duke Energy Corporation common stockholders					
Basic and diluted	\$ 5.07	\$ 3.73	\$ 4.37	\$ 3.71	\$ 3.80
(Loss) Income from discontinued operations attributable to Duke Energy Corporation common stockholders					
Basic and diluted	\$ (0.01)	\$ 0.03	\$ (0.01)	\$ (0.60)	\$ 0.25
Net income available to Duke Energy Corporation common stockholders					
Basic and diluted	\$ 5.06	\$ 3.76	\$ 4.36	\$ 3.11	\$ 4.05
Dividends declared per share of common stock	3.75	3.64	3.49	3.36	3.24
Balance Sheets					
Total assets	\$ 158,838	\$ 145,392	\$ 137,914	\$ 132,761	\$ 121,156
Long-term debt including finance leases, less current maturities	54,985	51,123	49,035	45,576	36,842

- (a) Significant transactions reflected in the results above include: (i) growth in Commercial Renewables from new tax equity solar projects placed in service in 2019 (see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies"); (ii) regulatory and legislative charges related to Duke Energy Progress and Duke Energy Carolinas North Carolina rate case orders and impairment charges in 2018 (see Notes 4, 12 and 13 to the Consolidated Financial Statements, "Regulatory Matters," "Goodwill and Intangible Assets" and "Investments in Unconsolidated Affiliates"); (iii) the sale of the International Disposal Group in 2016, including a loss on sale recorded within discontinued operations; and (iv) the acquisition of Piedmont in 2016, including losses on interest rate swaps related to the acquisition financing.

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ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Management's Discussion and Analysis includes financial information prepared in accordance with GAAP in the U.S., as well as certain non-GAAP financial measures such as adjusted earnings and adjusted EPS discussed below. Generally, a non-GAAP financial measure is a numerical measure of financial performance, financial position or cash flows that excludes (or includes) amounts that are included in (or excluded from) the most directly comparable measure calculated and presented in accordance with GAAP. The non-GAAP financial measures should be viewed as a supplement to, and not a substitute for, financial measures presented in accordance with GAAP. Non-GAAP measures as presented herein may not be comparable to similarly titled measures used by other companies.

The following combined Management's Discussion and Analysis of Financial Condition and Results of Operations is separately filed by Duke Energy Corporation and its subsidiaries. Duke Energy Carolinas, LLC, Progress Energy, Inc., Duke Energy Progress, LLC, Duke Energy Florida, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC and Piedmont Natural Gas Company, Inc.. However, none of the registrants make any representation as to information related solely to Duke Energy or the subsidiary registrants of Duke Energy other than itself.

Management's Discussion and Analysis should be read in conjunction with the Consolidated Financial Statements and Notes for the years ended December 31, 2019, 2018 and 2017.

See "Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations," in Duke Energy's Annual Report on Form 10-K for the year ended December 31, 2018, filed with the SEC on February 28, 2019, for a discussion of variance drivers for the year ended December 31, 2018, as compared to December 31, 2017.

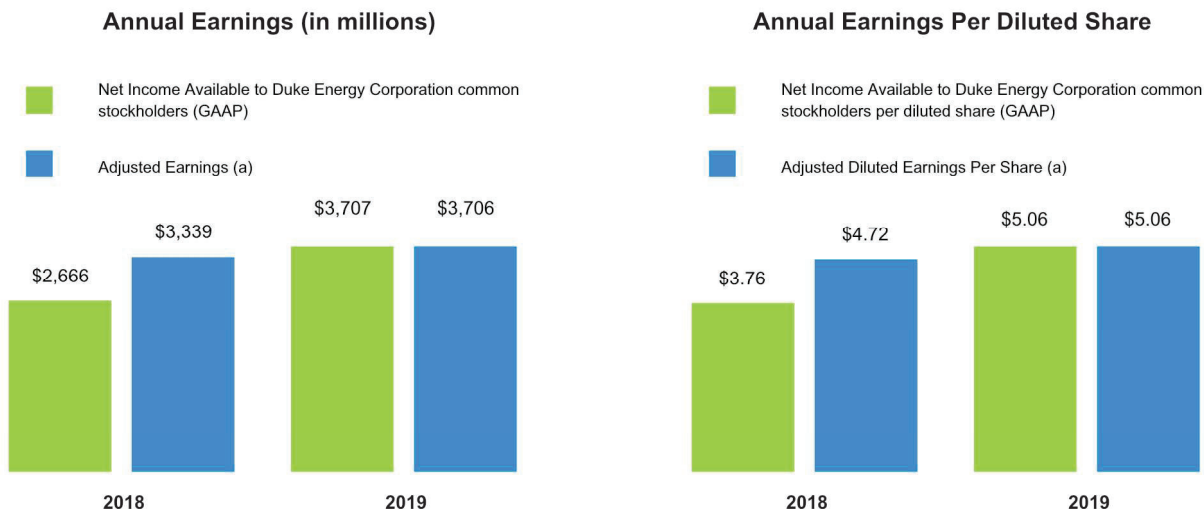
DUKE ENERGY

Duke Energy is an energy company headquartered in Charlotte, North Carolina. Duke Energy operates in the U.S. primarily through its wholly owned subsidiaries, Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont. When discussing Duke Energy's consolidated financial information, it necessarily includes the results of the Subsidiary Registrants, which along with Duke Energy, are collectively referred to as the Duke Energy Registrants.

Executive Overview

At Duke Energy the fundamentals of our business are strong and allow us to deliver growth in earnings and dividends in a low-risk, predictable and transparent way. In 2019, we met our near-term financial commitments and positioned the company for sustainable long-term growth. We are focused on a business portfolio that will deliver a reliable dividend with 4% to 6% EPS growth through 2024. This growth is supported by our capital plan, timely cost-recovery mechanisms in most jurisdictions and our ability to manage our cost structure. The strength of our balance sheet is of vital importance to the cost-effective financing of our growth strategy, and in 2019 we continued to strengthen it by issuing \$2 billion of preferred equity and \$2.5 billion of common stock through a forward sales agreement which is expected to settle on or prior to December 31, 2020.

Financial Results



- (a) See Results of Operations below for Duke Energy's definition of adjusted earnings and adjusted diluted EPS as well as a reconciliation of this non-GAAP financial measure to net income available to Duke Energy and net income available to Duke Energy per diluted share.

Duke Energy's 2019 Net Income Available to Duke Energy Corporation (GAAP Reported Earnings) were impacted by: favorable rate case and rider recovery outcomes, net of regulatory lag, and ongoing cost management efforts in Electric Utilities and Infrastructure; improved margins and increased ACP investment in Gas Utilities and Infrastructure; and growth in project investments in Commercial Renewables. See "Results of Operations" below for a detailed discussion of the consolidated results of operations and a detailed discussion of financial results for each of Duke Energy's reportable business segments, as well as Other where financing costs increased in 2019 to fund segment operations and other liquidity needs.

2019 Areas of Focus and Accomplishments

Operational Excellence, Safety and Reliability. The reliable and safe operation of our power plants, electric distribution system and natural gas infrastructure in our communities is foundational to our customers, our financial results and our credibility with stakeholders. Our regulated generation fleet performance was strong throughout the year. All of our nuclear sites have achieved the industry's highest distinction rating. Our electric distribution system performed well throughout the year, with outage durations down when adjusted for storms. The safety of our workforce is a core value. Our employees delivered strong safety results in 2019, and we are at or near the top of our industry.

Storm Response and System Restoration. The 2019 Atlantic hurricane season was the fourth consecutive year of above-average damaging storms. Our ability to effectively handle all facets of the 2019 storm response efforts is a testament to our team's extensive preparation and coordination, applying lessons learned from previous storms, and to on-the-ground management throughout the restoration efforts. Notably in 2019 Duke Energy earned EEI's Emergency Recovery Award, our 22nd EEI award since 1998 and a strong affirmation of the work of our employees to support customers when they need us most.

Customer Satisfaction. Duke Energy continues to transform the customer experience through our use of customer data to better inform operational priorities and performance levels. This data-driven approach allows us to identify the investments that are the most important to the customer experience. In 2019, we instituted billing and payment-related communications and options, and we continue to enhance outage-related communications to customers.

Constructive Regulatory and Legislative Outcomes. One of our long-term strategic goals is to achieve modernized regulatory constructs in our jurisdictions. Modernized constructs provide benefits, which include improved earnings and cash flows through more timely recovery of investments, as well as stable pricing for customers. In 2019, Duke Energy, North Carolina regulators and environmentalists reached an agreement to permanently close all remaining coal ash basins in North Carolina. This agreement reduces the cost to close our coal ash basins for our Carolinas customers in comparison to the initial NCDEQ closure order. In 2019 we achieved constructive rate case outcomes driving earnings growth through rate base increases in South Carolina (electric), North Carolina (natural gas), Ohio (electric distribution) and Kentucky (natural gas). In addition, we have a multiyear rate plan in Florida and grid investment riders in the Midwest which enable more timely cost recovery and earnings growth.

Digital Transformation. Duke Energy has a demonstrated track record of driving efficiencies and productivity into the business. We continue to leverage new technology, digital tools and data analytics across the business in response to a transforming landscape. In 2019, we created a team dedicated to developing applications and other solutions to deliver productivity gains and improvements to the customer experience.

Modernizing the Power Grid. Our grid improvement programs continue to be a key component of our growth strategy. Modernization of the electric grid, including smart meters, storm hardening, self-healing and targeted undergrounding helps to ensure the system is better prepared for severe weather, improves the system's reliability and flexibility, and provides better information and services for customers. In 2019, 79% of our jurisdictions were equipped with smart meters and we remain on track to be fully deployed across all regions by 2021. We continue to expand our self-optimizing grid capabilities, and in 2019 that saved over a half million customer interruptions.

Generating Cleaner Energy. Overall, we have lowered our carbon emissions by 39% since 2005, consistent with our new goal to reduce carbon emissions by at least 50% by 2030 and to achieve net-zero carbon emissions by 2050. Our commitment for 2030 includes retiring plants, operating our existing carbon-free resources and investing in natural gas infrastructure, renewables and our energy delivery system. As we look beyond 2030, we will need additional tools to continue our progress. We will work actively to advocate for research and development of carbon-free, dispatchable resources. That includes longer-term energy storage, advanced nuclear technologies, carbon capture and zero-carbon fuels.

Expanding the Natural Gas Platform. We continue to pursue natural gas infrastructure investments. While the judicial and administrative challenges to date have been substantial, we are committed to the construction of the ACP pipeline to bring low-cost gas supply and economic development opportunities to the Southeast U.S. Construction is underway on a liquefied natural gas facility in Robeson County, North Carolina, on property Piedmont owns. This investment will help Piedmont provide a reliable gas supply to customers during peak usage periods and protect customers from price volatility when there is a higher-than-normal demand for natural gas.

Dividend Growth. In 2019, Duke Energy continued to grow the dividend payment to shareholders. 2019 represented the 93rd consecutive year Duke Energy paid a cash dividend on its common stock.

Duke Energy Objectives – 2020 and Beyond

Duke Energy will continue to deliver exceptional value to customers, be an integral part of the communities in which we do business and provide attractive returns to investors. We have an achievable, long-term strategy in place, and it is producing tangible results, yet the industry in which we operate is becoming more and more dynamic. We are adjusting, where necessary, and accelerating our focus in key areas to ensure the company is well positioned to be successful for many decades into the future. As we look ahead to 2020, our plans include:

- Continuing to place the customer at the center of all that we do which includes providing customized products and solutions
- Strengthening our relationships with all our vast stakeholders in the communities in which we operate and invest
- Generating cleaner energy and working to achieve net-zero carbon emissions by 2050
- Maintaining the safety of our communities and employees
- Modernizing and strengthening the energy grid
- Expanding the natural gas infrastructure
- Deploying digital tools across our business

Results of Operations

Non-GAAP Measures

Management evaluates financial performance in part based on non-GAAP financial measures, including adjusted earnings and adjusted diluted EPS. These items represent income from continuing operations available to Duke Energy common stockholders in dollar and per-share amounts, adjusted for the dollar and per-share impact of special items. As discussed below, special items include certain charges and credits, which management believes are not indicative of Duke Energy's ongoing performance. Management believes the presentation of adjusted earnings and adjusted diluted EPS provides useful information to investors, as it provides them with an additional relevant comparison of Duke Energy's performance across periods.

Management uses these non-GAAP financial measures for planning and forecasting, and for reporting financial results to the Board of Directors, employees, stockholders, analysts and investors. Adjusted diluted EPS is also used as a basis for employee incentive bonuses. The most directly comparable GAAP measures for adjusted earnings and adjusted diluted EPS are GAAP Reported Earnings and Diluted EPS Available to Duke Energy Corporation common stockholders (GAAP Reported EPS), respectively.

Special items included in the periods presented include the following, which management believes do not reflect ongoing costs:

- Impairment Charges in 2019 represents a reduction of a prior year impairment at Citrus County CC and an OTTI on the remaining investment in Constitution. For 2018, it represents an impairment at Citrus County CC, a goodwill impairment at Commercial Renewables and an OTTI of an investment in Constitution.
- Costs to Achieve Mergers represents charges that result from strategic acquisitions.
- Regulatory and Legislative Impacts in 2018 represents charges related to the Duke Energy Progress and Duke Energy Carolinas North Carolina rate case orders and the repeal of the South Carolina Base Load Review Act.
- Sale of Retired Plant represents the loss associated with selling Beckjord, a nonregulated generating facility in Ohio.
- Impacts of the Tax Act represents amounts recognized related to the Tax Act.
- Severance Charges relate to companywide initiatives, excluding merger integration, to standardize processes and systems, leverage technology and workforce optimization.

Duke Energy's adjusted earnings and adjusted diluted EPS may not be comparable to similarly titled measures of another company because other companies may not calculate the measures in the same manner.

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Reconciliation of GAAP Reported Amounts to Adjusted Amounts

The following table presents a reconciliation of adjusted earnings and adjusted diluted EPS to the most directly comparable GAAP measures.

(in millions, except per share amounts)	Years Ended December 31,			
	2019		2018	
	Earnings	EPS	Earnings	EPS
GAAP Reported Earnings/EPS	\$ 3,707	\$ 5.06	\$ 2,666	\$ 3.76
Adjustments to Reported:				
Impairment Charges ^(a)	(8)	(0.01)	179	0.25
Costs to Achieve Piedmont Merger ^(b)	—	—	65	0.09
Regulatory and Legislative Impacts ^(c)	—	—	202	0.29
Sale of Retired Plant ^(d)	—	—	82	0.12
Impacts of the Tax Act ^(e)	—	—	20	0.03
Severance Charges ^(f)	—	—	144	0.21
Discontinued Operations	7	0.01	(19)	(0.03)
Adjusted Earnings/Adjusted Diluted EPS	\$ 3,706	\$ 5.06	\$ 3,339	\$ 4.72

(a) Net of tax expense of \$3 million in 2019. Net of tax benefit of \$27 million and Noncontrolling Interests of \$2 million in 2018.

(b) Net of tax benefit of \$19 million.

(c) Net of tax benefit of \$63 million.

(d) Net of \$25 million tax benefit.

(e) The Tax Act reduced the corporate income tax rate from 35% to 21%, effective January 1, 2018. As the tax change was enacted in 2017, Duke Energy was required to remeasure its existing deferred tax assets and liabilities at the lower rate at December 31, 2017. For Duke Energy's regulated operations, where the reduction in the net accumulated deferred income tax liability is expected to be returned to customers in future rates, the remeasurement has been deferred as a regulatory liability. This amount represents a true up of existing regulatory liabilities related to the Tax Act. See Note 24 to the Consolidated Financial Statements, "Income Taxes" for more information.

(f) Net of tax benefit of \$43 million.

Year Ended December 31, 2019, as compared to 2018

GAAP Reported EPS was \$5.06 for the year ended December 31, 2019, compared to \$3.76 for the year ended December 31, 2018. The increase in GAAP Reported earnings was primarily due to current year favorable rate case and rider recovery outcomes, an adjustment related to income tax recognition for equity method investments, growth in Commercial Renewables from new solar farms commencing commercial operations and prior year regulatory and legislative impacts, impairments, severance, loss on sale of a retired plant and costs to achieve merger. This favorability was partially offset by higher depreciation and higher financing costs in the current year. The equity method investment adjustment was immaterial and relates to prior years.

As discussed and shown in the table above, management also evaluates financial performance based on adjusted diluted EPS. Duke Energy's adjusted diluted EPS was \$5.06 for the year ended December 31, 2019, compared to \$4.72 for the year ended December 31, 2018.

SEGMENT RESULTS

The remaining information presented in this discussion of results of operations is on a GAAP basis. Management evaluates segment performance based on segment income. Segment income is defined as income from continuing operations net of income attributable to noncontrolling interests and preferred stock dividends. Segment income includes intercompany revenues and expenses that are eliminated in the Consolidated Financial Statements.

Duke Energy's segment structure includes the following segments: Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables. The remainder of Duke Energy's operations is presented as Other. See Note 3 to the Consolidated Financial Statements, "Business Segments," for additional information on Duke Energy's segment structure.

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SEGMENT RESULTS - ELECTRIC UTILITIES AND INFRASTRUCTURE

Electric Utilities and Infrastructure

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Operating Revenues	\$ 22,831	\$ 22,273	\$ 558
Operating Expenses			
Fuel used in electric generation and purchased power	6,904	6,917	(13)
Operations, maintenance and other	5,497	5,631	(134)
Depreciation and amortization	3,951	3,523	428
Property and other taxes	1,175	1,134	41
Impairment charges	(8)	309	(317)
Total operating expenses	17,519	17,514	5
Gains on Sales of Other Assets and Other, net	1	8	(7)
Operating Income	5,313	4,767	546
Other Income and Expenses, net	353	378	(25)
Interest Expense	1,345	1,288	57
Income Before Income Taxes	4,321	3,857	464
Income Tax Expense	785	799	(14)
Segment Income	\$ 3,536	\$ 3,058	\$ 478
Duke Energy Carolinas GWh sales	89,920	92,280	(2,360)
Duke Energy Progress GWh sales	68,356	69,331	(975)
Duke Energy Florida GWh sales	42,173	41,559	614
Duke Energy Ohio GWh sales	24,729	25,329	(600)
Duke Energy Indiana GWh sales	31,886	34,229	(2,343)
Total Electric Utilities and Infrastructure GWh sales	257,064	262,728	(5,664)
Net proportional MW capacity in operation	50,070	49,684	386

Year Ended December 31, 2019, as compared to 2018

Electric Utilities and Infrastructure's results were impacted by positive contributions from the Duke Energy Carolinas and Duke Energy Progress North Carolina and South Carolina rate cases and Duke Energy Florida's base rate adjustments due to the Citrus County CC being placed in service. These drivers were partially offset by higher depreciation from a growing asset base and higher interest expense. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The variance was driven primarily by:

- a \$603 million increase in retail pricing primarily due to the Duke Energy Carolinas and Duke Energy Progress North Carolina and South Carolina rate cases and Duke Energy Florida's base rate adjustments related to Citrus County CC being placed in service.

Partially offset by:

- a \$45 million decrease in weather-normal retail sales volumes.

Operating Expenses. The variance was driven primarily by:

- a \$428 million increase in depreciation and amortization expense primarily due to additional plant in service and new depreciation rates associated with the Duke Energy Carolinas and Duke Energy Progress North Carolina and South Carolina rate cases and Duke Energy Florida's Citrus County CC being placed in service; and
- a \$41 million increase in property and other taxes primarily due to higher property taxes for additional plant in service at Duke Energy Florida and current year property tax reassessments at Duke Energy Progress and Duke Energy Ohio.

Partially offset by:

- a \$317 million decrease in impairment charges primarily due to the impacts associated with the Duke Energy Carolinas and Duke Energy Progress North Carolina rate cases as well as impairment impacts related to Duke Energy Florida's Citrus County CC; and
- a \$134 million decrease in operation, maintenance and other expense primarily due to lower payroll and benefit costs resulting from prior year workforce reductions and lower storm costs at Duke Energy Progress and Duke Energy Carolinas in the current year.

Other Income and Expenses, net. The variance was driven primarily by AFUDC equity return ending on the Citrus County CC in the fourth quarter of 2018 at Duke Energy Florida.

Interest Expense. The variance was driven primarily by higher debt outstanding in the current year and AFUDC debt return ending in the fourth quarter of 2018 on the Citrus County CC at Duke Energy Florida.

Income Tax Expense. The decrease in tax expense was primarily due to an increase in the amortization of excess deferred taxes, mostly offset by an increase in pretax income. The ETRs for the years ended December 31, 2019, and 2018, were 18.2% and 20.7%, respectively. The decrease in the ETR was primarily due to an increase in the amortization of excess deferred taxes.

Matters Impacting Future Electric Utilities and Infrastructure Results

On December 31, 2019, Duke Energy Carolinas and Duke Energy Progress entered into a settlement agreement with NCDEQ and certain community groups under which Duke Energy Carolinas and Duke Energy Progress agreed to excavate seven of the nine remaining coal ash basins in North Carolina with ash moved to on-site lined landfills. At the two remaining basins, uncapped basin ash will be excavated and moved to lined landfills. An order from regulatory authorities disallowing recovery of costs related to closure of these ash basins could have an adverse impact on Electric Utilities and Infrastructure's results of operations, financial position and cash flows. See Notes 4 and 5 to the Consolidated Financial Statements, "Regulatory Matters" and "Commitments and Contingencies," respectively, for additional information.

On May 21, 2019, Duke Energy Carolinas and Duke Energy Progress received orders from the PSCSC granting the companies' requests for retail rate increases but denying recovery of certain coal ash costs. Duke Energy Carolinas and Duke Energy Progress filed notices of appeals with the South Carolina Supreme Court on November 15, 2019. Appellant briefs are due on March 2, 2020, and Appellee response briefs are due on May 15, 2020. Electric Utilities and Infrastructure's results of operations, financial position and cash flows could be adversely impacted if coal ash costs are not ultimately approved for recovery. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On June 22, 2018, Duke Energy Carolinas received an order from the NCUC, which denied the Grid Rider Stipulation and deferral treatment of grid improvement costs. Duke Energy Carolinas and Duke Energy Progress have petitioned for deferral of future grid improvement costs in their 2019 rate cases. Electric Utilities and Infrastructure's results of operations, financial position and cash flows could be adversely impacted if grid improvement costs are not ultimately approved for recovery and/or deferral treatment.

During the last half of 2018, Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida's service territories were impacted by several named storms. Hurricane Florence, Hurricane Michael and Winter Storm Diego caused flooding, extensive damage and widespread power outages to the service territories of Duke Energy Carolinas and Duke Energy Progress. Duke Energy Florida's service territory was also impacted by Hurricane Michael, a Category 5 hurricane and the most powerful storm to hit the Florida Panhandle in recorded history. In September 2019, Hurricane Dorian impacted Duke Energy Progress and Duke Energy Florida's service territories. A significant portion of the incremental operation and maintenance expenses related to these storms has been deferred. An order from regulatory authorities disallowing the deferral and future recovery of storm restoration costs could have an adverse impact on Electric Utilities and Infrastructure's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

In 2019, Duke Energy Indiana filed a general rate case with the IURC, and Duke Energy Carolinas and Duke Energy Progress filed general rate cases with the NCUC. The outcome of these rate cases could materially impact Electric Utilities and Infrastructure's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On April 17, 2015, the EPA published in the Federal Register a rule to regulate the disposal of CCR from electric utilities as solid waste. Duke Energy Indiana has interpreted the rule to identify the coal ash basin sites impacted and has assessed the amounts of coal ash subject to the rule and a method of compliance. Duke Energy Indiana's interpretation of the requirements of the CCR rule is subject to potential legal challenges and further regulatory approvals, which could result in additional ash basin closure requirements, higher costs of compliance and greater AROs. Additionally, Duke Energy Indiana has retired facilities that are not subject to the CCR rule. Duke Energy Indiana may incur costs at these facilities to comply with environmental regulations or to mitigate risks associated with on-site storage of coal ash. An order from regulatory authorities disallowing recovery of costs related to closure of ash basins could have an adverse impact on Duke Energy Indiana's results of operations, financial position and cash flows.

Within this Item 7, see Liquidity and Capital Resources for discussion of risks associated with the Tax Act.

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SEGMENT RESULTS - GAS UTILITIES AND INFRASTRUCTURE

Gas Utilities and Infrastructure

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Operating Revenues	\$ 1,866	\$ 1,881	\$ (15)
Operating Expenses			
Cost of natural gas	627	697	(70)
Operation, maintenance and other	446	421	25
Depreciation and amortization	256	245	11
Property and other taxes	106	107	(1)
Total operating expenses	1,435	1,470	(35)
Operating Income	431	411	20
Other Income and Expenses, net	140	47	93
Interest Expense	117	106	11
Income Before Income Taxes	454	352	102
Income Tax Expense	22	78	(56)
Segment Income	\$ 432	\$ 274	\$ 158
Piedmont Local Distribution Company (LDC) throughput (Dth)	511,243,774	557,145,128	(45,901,354)
Duke Energy Midwest LDC throughput (MCF)	89,025,972	90,604,833	(1,578,861)

Year Ended December 31, 2019, as compared to 2018

Gas Utilities and Infrastructure's results were primarily impacted by higher equity earnings at ACP, the OTTI recorded on the Constitution investment and a 2019 adjustment related to the income tax recognition for equity method investments. The equity method investment adjustment was immaterial and relates to prior years. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The variance was driven primarily by:

- a \$70 million decrease due to lower natural gas costs passed through to customers; and
- a \$13 million decrease due to rider revenues related to MGP and Accelerated Main Replacement Program.

Partially offset by:

- a \$37 million increase due to North Carolina and Kentucky base rate case increases;
- a \$19 million increase due to North Carolina and Tennessee IMR increases; and
- an \$11 million increase due to NCUC approval related to tax reform accounting from fixed rate contracts.

Operating Expenses. The variance was driven primarily by:

- a \$70 million decrease in the cost of natural gas due to lower natural gas prices.

Partially offset by:

- a \$25 million increase in operation, maintenance and other expense primarily due to increased labor, benefits and information technology costs; and
- an \$11 million increase in depreciation and amortization expense due to additional plant in service.

Other Income and Expenses, net. The increase was primarily due to higher equity earnings at ACP as a result of higher cumulative project spending and a higher OTTI recorded on the Constitution investment in the prior year.

Interest Expense. The variance was driven by higher debt outstanding in the current year and higher interest expense due to customers as a result of tax reform deferrals, partially offset by favorable AFUDC debt interest.

Income Tax Expense. The decrease in tax expense was primarily due to an adjustment related to the income tax recognition for equity method investments, partially offset by an increase in pretax income. The equity method investment adjustment was immaterial and relates to prior years. The ETRs for the years ended December 31, 2019, and 2018, were 4.8% and 22.2%, respectively. The decrease in the ETR was primarily due to an adjustment related to the income tax recognition for equity method investments that was recorded during the first quarter of 2019 and current year AFUDC equity. The equity method investment adjustment was immaterial and relates to prior years.

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SEGMENT RESULTS - GAS UTILITIES AND INFRASTRUCTURE

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Matters Impacting Future Gas Utilities and Infrastructure Results

Gas Utilities and Infrastructure has a 47% ownership interest in ACP, which is building an approximately 600-mile interstate natural gas pipeline intended to transport diverse natural gas supplies into southeastern markets. Affected states (West Virginia, Virginia and North Carolina) have issued certain necessary permits; the project remains subject to other pending federal and state approvals, which will allow full construction activities to begin. In 2018, FERC issued a series of Notices to Proceed, which authorized the project to begin certain construction-related activities along the pipeline route. Given legal challenges and ongoing discussions with customers, ACP expects mechanical completion of the full project in late 2021 with in-service likely in the first half of 2022. The delays resulting from legal challenges have also impacted the cost for the project. Project cost is approximately \$8 billion, excluding financing costs. This estimate is based on the current facts available around construction costs and timelines, and is subject to future changes as those facts develop. Abnormal weather, work delays (including delays due to judicial or regulatory action) and other conditions may result in cost or schedule modifications, a suspension of AFUDC for ACP and/or impairment charges potentially material to Duke Energy's cash flows, financial position and results of operations. ACP and Duke Energy will continue to consider their options with respect to the foregoing given their existing contractual and legal obligations. See Notes 4 and 18 to the Consolidated Financial Statements, "Regulatory Matters" and "Variable Interest Entities," respectively, for additional information.

On November 13, 2013, the PUCO issued an order authorizing recovery of MGP costs at certain sites in Ohio with a deadline to complete the MGP environmental investigation and remediation work prior to December 31, 2016. This deadline was subsequently extended to December 31, 2019. Duke Energy Ohio has filed a request for extension of the deadline. A hearing on that request has not been scheduled. Disallowance of costs incurred, failure to complete the work by the deadline or failure to obtain an extension from the PUCO could result in an adverse impact on Gas Utilities and Infrastructure's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see Liquidity and Capital Resources for discussion of risks associated with the Tax Act.

Commercial Renewables

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Operating Revenues	\$ 487	\$ 477	\$ 10
Operating Expenses			
Operation, maintenance and other	297	304	(7)
Depreciation and amortization	168	155	13
Property and other taxes	23	25	(2)
Impairment charges	—	93	(93)
Total operating expenses	488	577	(89)
Losses on Sales of Other Assets and Other, net	(3)	(1)	(2)
Operating Loss	(4)	(101)	97
Other Income and Expenses, net	5	23	(18)
Interest Expense	95	88	7
Loss Before Income Taxes	(94)	(166)	72
Income Tax Benefit	(115)	(147)	32
Less: Loss Attributable to Noncontrolling Interests	(177)	(28)	(149)
Segment Income	\$ 198	\$ 9	\$ 189
Renewable plant production, GWh	8,574	8,522	52
Net proportional MW capacity in operation ^(a)	3,485	2,991	494

(a) Certain projects are included in tax-equity structures where investors have differing interests in the project's economic attributes. In the table above, 100% of the tax-equity project's capacity is included.

Year Ended December 31, 2019, as compared to 2018

Commercial Renewables' results were favorable primarily due to new tax equity solar projects in the current year and a prior year goodwill impairment charge. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The increase was primarily due to new solar projects placed in service and higher irradiance.

Operating Expenses. The decrease was primarily due to a goodwill impairment charge in the prior year, partially offset by increased depreciation due to new solar projects placed in service.

Other Income and Expenses, net. The decrease was primarily due to income from the FES settlement agreement in the prior year.

Income Tax Benefit. The decrease in the tax benefit was primarily driven by taxes associated with Duke Energy's interest in tax equity solar projects recorded during 2019 and a reduction in PTCs generated.

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SEGMENT RESULTS - COMMERCIAL RENEWABLES

Loss Attributable to Noncontrolling Interests. The variance was primarily due to an increase in solar projects with tax equity investors. HLBV accounting was utilized, resulting in allocation of losses to the noncontrolling interest partners. See Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies" for more information.

Matters Impacting Future Commercial Renewables Results

Commercial Renewables continues to experience growth with tax equity projects; however, the future expiration of federal tax incentives could result in adverse impacts to future results of operations, financial position and cash flows.

During 2019, Duke Energy evaluated recoverability of its renewable merchant plants principally in the Electric Reliability Council of Texas West market, due to declining market pricing and declining long-term forecasted energy prices, primarily driven by lower forecasted natural gas prices. These assets were not impaired; however, a continued decline in energy market pricing would likely result in a future impairment. Impairment of these assets could result in adverse impacts to the future results of operations, financial position and cash flows of Commercial Renewables. See Note 11 to the Consolidated Financial Statements, "Property, Plant and Equipment," for additional information.

Within this Item 7, see Liquidity and Capital Resources for discussion of risks associated with the Tax Act.

Other

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Operating Revenues	\$ 95	\$ 89	\$ 6
Operating Expenses	117	380	(263)
Losses on Sales of Other Assets and Other, net	(2)	(96)	94
Operating Loss	(24)	(387)	363
Other Income and Expenses, net	145	73	72
Interest Expense	705	657	48
Loss Before Income Taxes	(584)	(971)	387
Income Tax Benefit	(173)	(282)	109
Less: Net Income Attributable to Noncontrolling Interests	—	5	(5)
Less: Preferred Dividends	41	—	41
Net Loss	\$ (452)	\$ (694)	\$ 242

Year Ended December 31, 2019, as compared to 2018

The variance was driven by the prior year severance charges related to a corporate initiative, prior year loss on sale of the retired Beckjord station, and the absence in the current year of costs related to the Piedmont acquisition, offset by obligations to the Duke Energy Foundation in 2019. The following is a detailed discussion of the variance drivers by line item.

Operating Expenses. The variance was primarily due to prior year severance charges related to a corporate initiative as well as costs associated with the Piedmont acquisition, partially offset by obligations to the Duke Energy Foundation in 2019.

Losses on Sales of Other Assets and Other, net. The variance was driven by the prior year loss on sale of the retired Beckjord station, including the transfer of coal ash basins and other real property and indemnification from all potential future claims related to the property, whether arising under environmental laws or otherwise.

Other Income and Expenses, net. The variance was primarily due to higher returns on investments that fund certain employee benefit obligations and Bison investment income.

Interest Expense. The variance was primarily due to higher outstanding debt in the current year and higher short-term interest rates.

Income Tax Benefit. The decrease in the tax benefit was primarily driven by a decrease in pretax losses.

Preferred Dividends. The variance was driven by the declarations of preferred stock dividend on preferred stock issued in 2019.

Matters Impacting Future Other Results

Within this Item 7, see Liquidity and Capital Resources for discussion of risks associated with the Tax Act.

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DUKE ENERGY CAROLINAS

SUBSIDIARY REGISTRANTS

Basis of Presentation

The results of operations and variance discussion for the Subsidiary Registrants is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

DUKE ENERGY CAROLINAS

Results of Operations

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Operating Revenues	\$ 7,395	\$ 7,300	\$ 95
Operating Expenses			
Fuel used in electric generation and purchased power	1,804	1,821	(17)
Operation, maintenance and other	1,868	2,130	(262)
Depreciation and amortization	1,388	1,201	187
Property and other taxes	292	295	(3)
Impairment charges	17	192	(175)
Total operating expenses	5,369	5,639	(270)
Losses on Sales of Other Assets and Other, net	—	(1)	1
Operating Income	2,026	1,660	366
Other Income and Expenses, net	151	153	(2)
Interest Expense	463	439	24
Income Before Income Taxes	1,714	1,374	340
Income Tax Expense	311	303	8
Net Income	\$ 1,403	\$ 1,071	\$ 332

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Carolinas. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities, public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2019	2018
Residential sales	(2.9)%	11.7 %
General service sales	(0.1)%	4.5 %
Industrial sales	(1.9)%	(0.3)%
Wholesale power sales	(13.6)%	12.5 %
Joint dispatch sales	4.7 %	23.1 %
Total sales	(2.6)%	5.7 %
Average number of customers	2.1 %	1.5 %

Year Ended December 31, 2019, as compared to 2018

Operating Revenues. The variance was driven primarily by:

- a \$178 million increase in retail pricing due to the impacts of the prior year North Carolina rate case and the current year South Carolina rate case.

Partially offset by:

- a \$41 million decrease in rider revenues primarily due to excess deferred taxes, partially offset by EE programs and a decrement rider relating to nuclear decommissioning that ended in the prior year;
- a \$14 million decrease in weather-normal retail sales volumes; and
- a \$7 million decrease in retail sales, net of fuel revenues, due to unfavorable weather in the current year.

Operating Expenses. The variance was driven primarily by:

- a \$262 million decrease in operation, maintenance and other expense primarily due to decreased labor and storm restoration costs; and
- a \$175 million decrease in impairment charges primarily due to impacts of the prior year North Carolina rate order, the repeal of the South Carolina Base Load Review Act and charges related to coal ash costs in South Carolina.

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DUKE ENERGY CAROLINAS

Partially offset by:

- a \$187 million increase in depreciation and amortization expense primarily due to additional plant in service, new depreciation rates associated with the prior year North Carolina rate case and the current year South Carolina rate case and higher amortization of deferred coal ash costs associated with the prior year North Carolina rate case.

Interest Expense. The variance was primarily due to higher debt outstanding in the current year.

Matters Impacting Future Results

On December 31, 2019, Duke Energy Carolinas entered into a settlement agreement with NCDEQ and certain community groups under which Duke Energy Carolinas agreed to excavate five of the six remaining coal ash basins in North Carolina with ash moved to on-site lined landfills. At the one remaining basin, uncapped basin ash will be excavated and moved to lined landfills. An order from regulatory authorities disallowing recovery of costs related to closure of these ash basins could have an adverse impact on Duke Energy Carolinas' results of operations, financial position and cash flows. See Notes 4 and 5 to the Consolidated Financial Statements, "Regulatory Matters" and "Commitments and Contingencies," respectively, for additional information.

Duke Energy Carolinas filed a general rate case with the NCUC on September 30, 2019. The outcome of this rate case could materially impact Duke Energy Carolina's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On May 21, 2019, the PSCSC issued an order granting Duke Energy Carolinas request for a retail rate increase but denying recovery of certain coal ash costs. Duke Energy Carolinas filed a notice of appeal with the South Carolina Supreme Court on November 15, 2019. Appellant briefs are due on March 2, 2020, and Appellee response briefs are due on May 15, 2020. Duke Energy Carolinas' results of operations, financial position and cash flows could be adversely impacted if coal ash costs are not ultimately approved for recovery. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On June 22, 2018, Duke Energy Carolinas received an order from the NCUC, which denied the Grid Rider Stipulation and deferral treatment of grid improvement costs. Duke Energy Carolinas has petitioned for deferral of future grid improvement costs in its 2019 rate case. Duke Energy Carolinas' results of operations, financial position and cash flows could be adversely impacted if grid improvement costs are not ultimately approved for recovery and/or deferral treatment.

During the last half of 2018, Duke Energy Carolinas' service territory was impacted by several named storms. Hurricane Florence, Hurricane Michael and Winter Storm Diego caused flooding, extensive damage and widespread power outages in the service territory. A significant portion of the incremental operation and maintenance expenses related to these storms has been deferred. An order from regulatory authorities disallowing the deferral and future recovery of storm restoration costs could have an adverse impact on Duke Energy Carolinas' results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see Liquidity and Capital Resources for discussion of risks associated with the Tax Act.

PROGRESS ENERGY

Results of Operations

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Operating Revenues	\$ 11,202	\$ 10,728	\$ 474
Operating Expenses			
Fuel used in electric generation and purchased power	4,024	3,976	48
Operation, maintenance and other	2,495	2,613	(118)
Depreciation and amortization	1,845	1,619	226
Property and other taxes	561	529	32
Impairment charges	(24)	87	(111)
Total operating expenses	8,901	8,824	77
Gains on Sales of Other Assets and Other, net	—	24	(24)
Operating Income	2,301	1,928	373
Other Income and Expenses, net	141	165	(24)
Interest Expense	862	842	20
Income Before Income Taxes	1,580	1,251	329
Income Tax Expense	253	218	35
Net Income	1,327	1,033	294
Less: Net Income Attributable to Noncontrolling Interests	—	6	(6)
Net Income Attributable to Parent	\$ 1,327	\$ 1,027	\$ 300

Year Ended December 31, 2019, as compared to 2018

Operating Revenues. The variance was driven primarily by:

- a \$366 million increase in retail pricing primarily due to the impacts of the prior year North Carolina rate case and current year South Carolina rate case at Duke Energy Progress, Duke Energy Florida's base rate adjustments related to Citrus County CC being placed in service and annual increases from the 2017 Settlement Agreement;
- a \$70 million increase in wholesale power revenues, net of fuel, primarily due to coal ash cost recovery in the current year at Duke Energy Progress and increased demand at Duke Energy Florida;
- a \$42 million increase in fuel revenues primarily related to increased fuel cost recovery due to extreme weather in the prior year at Duke Energy Progress, partially offset by a decrease in fuel and capacity rates billed to retail customers at Duke Energy Florida;
- a \$22 million increase in retail sales, net of fuel revenues, due to favorable weather in the current year at Duke Energy Florida; and
- a \$21 million increase in other revenues primarily due to increased transmission revenues and nonregulated products and services revenues at Duke Energy Florida.

Partially offset by:

- a \$47 million decrease in retail rider revenues primarily related to decreased revenue requirements in the current year; and
- a \$14 million decrease in weather-normal retail sales volumes at Duke Energy Florida.

Operating Expenses. The variance was driven primarily by:

- a \$226 million increase in depreciation and amortization expense primarily due to higher amortization of deferred coal ash costs, new depreciation rates associated with the prior year Duke Energy Progress North Carolina rate case and Duke Energy Florida's base rate adjustments related to Citrus County CC being placed in service;
- a \$48 million increase in fuel used in electric generation and purchased power primarily due to an increase in the North Carolina Renewable Energy and Energy Efficiency Portfolio Standard requirement from the prior year at Duke Energy Progress, partially offset by lower purchased power and lower fuel costs, net of deferrals, at Duke Energy Florida; and
- a \$32 million increase in property and other taxes primarily due to current year property tax reassessments and a favorable sales and use tax credit in the prior year at Duke Energy Progress and higher property taxes for additional plant in service at Duke Energy Florida.

Partially offset by:

- a \$118 million decrease in operation, maintenance and other expense primarily due to lower storm costs, reduced outage costs, and lower employee benefit costs, partially offset by increased vegetation management costs at Duke Energy Florida; and
- a \$111 million decrease in impairment charges primarily due to prior year impacts associated with the North Carolina rate case at Duke Energy Progress as well as the impairment of Duke Energy Florida's Citrus County CC.

Other Income and Expenses, net. The variance was driven primarily by AFUDC equity return ending on the Citrus County CC in the fourth quarter of 2018 at Duke Energy Florida, partially offset by life insurance proceeds at Duke Energy Progress.

Interest Expense. The variance was driven primarily by AFUDC debt return ending in the fourth quarter of 2018 on the Citrus County CC at Duke Energy Florida.

Income Tax Expense. The increase in tax expense was primarily due to an increase in pretax income, partially offset by an increase in the amortization of excess deferred taxes and a Tax Act adjustment in the prior year related to excess deferred taxes.

Matters Impacting Future Results

On December 31, 2019, Duke Energy Progress entered into a settlement agreement with NCDEQ and certain community groups under which Duke Energy Progress agreed to excavate two of the three remaining coal ash basins in North Carolina with ash moved to on-site lined landfills. At the one remaining basin, uncapped basin ash will be excavated and moved to lined landfills. An order from regulatory authorities disallowing recovery of costs related to closure of these ash basins could have an adverse impact on Duke Energy Progress' results of operations, financial position and cash flows. See Notes 4 and 5 to the Consolidated Financial Statements, "Regulatory Matters" and "Commitments and Contingencies," respectively, for additional information.

Duke Energy Progress filed a general rate case with the NCUC on October 30, 2019. The outcome of this rate case could materially impact Progress Energy's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On May 21, 2019, the PSCSC issued an order granting Duke Energy Progress' request for a retail rate increase but denying recovery of certain coal ash costs. Duke Energy Progress filed a notice of appeal with the South Carolina Supreme Court on November 15, 2019. Appellant briefs are due on March 2, 2020, and Appellee response briefs are due on May 15, 2020. Progress Energy's results of operations, financial position and cash flows could be adversely impacted if coal ash costs are not ultimately approved for recovery. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

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PROGRESS ENERGY

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Duke Energy Progress has petitioned for deferral of future grid improvement costs in its 2019 rate case. Progress Energy's results of operations, financial position and cash flows could be adversely impacted if grid improvement costs are not ultimately approved for recovery and/or deferral treatment.

During the last half of 2018, Duke Energy Progress and Duke Energy Florida's service territories were impacted by several named storms. Hurricane Florence, Hurricane Michael and Winter Storm Diego caused flooding, extensive damage and widespread power outages to the service territory of Duke Energy Progress. Duke Energy Florida's service territory was also impacted by Hurricane Michael, a Category 5 hurricane and the most powerful storm to hit the Florida Panhandle in recorded history. In September 2019, Hurricane Dorian impacted Duke Energy Progress' and Duke Energy Florida's service territories. A significant portion of the incremental operation and maintenance expenses related to these storms has been deferred. An order from regulatory authorities disallowing the deferral and future recovery of storm restoration costs could have an adverse impact on Progress Energy's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see Liquidity and Capital Resources for discussion of risks associated with the Tax Act.

DUKE ENERGY PROGRESS

Results of Operations

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Operating Revenues	\$ 5,957	\$ 5,699	\$ 258
Operating Expenses			
Fuel used in electric generation and purchased power	2,012	1,892	120
Operation, maintenance and other	1,446	1,578	(132)
Depreciation and amortization	1,143	991	152
Property and other taxes	176	155	21
Impairment charges	12	33	(21)
Total operating expenses	4,789	4,649	140
Gains on Sales of Other Assets and Other, net	—	9	(9)
Operating Income	1,168	1,059	109
Other Income and Expenses, net	100	87	13
Interest Expense	306	319	(13)
Income Before Income Taxes	962	827	135
Income Tax Expense	157	160	(3)
Net Income	\$ 805	\$ 667	\$ 138

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Progress. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities, public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2019	2018
Residential sales	(4.0)%	9.9%
General service sales	(1.6)%	2.3%
Industrial sales	0.6 %	0.8%
Wholesale power sales	(1.5)%	4.6%
Joint dispatch sales	(0.8)%	2.1%
Total sales	(1.4)%	3.8%
Average number of customers	1.3 %	1.5%

Year Ended December 31, 2019, as compared to 2018

Operating Revenues. The variance was driven primarily by:

- a \$110 million increase in retail pricing due to the impacts of the prior year North Carolina rate case and the current year South Carolina rate case;
- a \$101 million increase in fuel revenues primarily related to increased fuel cost recovery due to extreme weather in the prior year; and
- a \$54 million increase in wholesale power revenues, net of fuel, primarily due to coal ash cost recovery in the current year.

Partially Offset by:

- a \$21 million decrease primarily due to the return of excess deferred incomes taxes created by the reduction in the corporate income tax rate, partially offset by an increase in rider revenues related to EE programs.

Operating Expenses. The variance was driven primarily by:

- a \$152 million increase in depreciation and amortization expense primarily due to higher amortization of deferred coal ash costs and new depreciation rates associated with the prior year North Carolina and current year South Carolina rate cases, partially offset by the amortization credit for the North Carolina Renewable Energy and Energy Efficiency Portfolio Standard requirement increase from prior year;
- a \$120 million increase in fuel used in electric generation and purchased power primarily due to a higher deferred fuel balance and an increase in the North Carolina Renewable Energy and Energy Efficiency Portfolio Standard requirement from prior year, partially offset by lower demand and changes in generation mix; and
- a \$21 million increase in property and other taxes primarily due to current year property tax reassessments and a favorable sales and use tax credit in the prior year.

Partially offset by:

- a \$132 million decrease in operation, maintenance and other expense primarily due to lower storm costs in current year, reduced outage costs and lower employee benefit costs; and
- a \$21 million decrease in impairment charges primarily due to prior year impacts associated with the North Carolina rate case.

Other Income and Expenses, net. The variance was driven primarily by life insurance proceeds.

Interest Expense. The variance was driven primarily by lower interest rates on outstanding debt.

Matters Impacting Future Results

On December 31, 2019, Duke Energy Progress entered into a settlement agreement with NCDEQ and certain community groups under which Duke Energy Progress agreed to excavate two of the three remaining coal ash basins in North Carolina with ash moved to on-site lined landfills. At the one remaining basin, uncapped basin ash will be excavated and moved to lined landfills. An order from regulatory authorities disallowing recovery of costs related to closure of these ash basins could have an adverse impact on Duke Energy Progress' results of operations, financial position and cash flows. See Notes 4 and 5 to the Consolidated Financial Statements, "Regulatory Matters" and "Commitments and Contingencies," respectively, for additional information.

Duke Energy Progress filed a general rate case with the NCUC on October 30, 2019. The outcome of this rate case could materially impact Duke Energy Progress' results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On May 21, 2019, the PSCSC issued an order granting Duke Energy Progress' request for a retail rate increase but denying recovery of certain coal ash costs. Duke Energy Progress filed a notice of appeal with the South Carolina Supreme Court on November 15, 2019. Appellant briefs are due on March 2, 2020, and Appellee response briefs are due on May 15, 2020. Duke Energy Progress' results of operations, financial position and cash flows could be adversely impacted if coal ash costs are not ultimately approved for recovery. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Duke Energy Progress has petitioned for deferral of future grid improvement costs in its 2019 rate case. Duke Energy Progress' results of operations, financial position and cash flows could be adversely impacted if grid improvement costs are not ultimately approved for recovery and/or deferral treatment.

During the last half of 2018, Duke Energy Progress' service territory was impacted by several named storms. Hurricane Florence, Hurricane Michael and Winter Storm Diego caused flooding, extensive damage and widespread power outages in the service territory. In September 2019, Hurricane Dorian reached the Carolinas bringing high winds, tornadoes and heavy rain, impacting about 300,000 customers within the service territory. A significant portion of the incremental operation and maintenance expenses related to these storms has been deferred. An order from regulatory authorities disallowing the deferral and future recovery of storm restoration costs could have an adverse impact on Duke Energy Progress' results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see Liquidity and Capital Resources for discussion of risks associated with the Tax Act.

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DUKE ENERGY FLORIDA

DUKE ENERGY FLORIDA

Results of Operations

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Operating Revenues	\$ 5,231	\$ 5,021	\$ 210
Operating Expenses			
Fuel used in electric generation and purchased power	2,012	2,085	(73)
Operation, maintenance and other	1,034	1,025	9
Depreciation and amortization	702	628	74
Property and other taxes	392	374	18
Impairment charges	(36)	54	(90)
Total operating expenses	4,104	4,166	(62)
Gains on Sales of Other Assets and Other, net	—	1	(1)
Operating Income	1,127	856	271
Other Income and Expenses, net	48	86	(38)
Interest Expense	328	287	41
Income Before Income Taxes	847	655	192
Income Tax Expense	155	101	54
Net Income	\$ 692	\$ 554	\$ 138

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Florida. The below percentages for retail customer classes represent billed sales only. Wholesale power sales include both billed and unbilled sales. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities, public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2019	2018
Residential sales	0.7 %	4.3 %
General service sales	0.3 %	1.9 %
Industrial sales	(4.6)%	(0.4)%
Wholesale power sales	28.8 %	5.2 %
Total sales	1.5 %	2.4 %
Average number of customers	1.6 %	1.5 %

Year Ended December 31, 2019, as compared to 2018

Operating Revenues. The variance was driven primarily by:

- a \$256 million increase in retail pricing due to base rate adjustments related to Citrus County CC being placed in service, annual increases from the 2017 Settlement Agreement and the Solar Base Rate Adjustment;
- a \$22 million increase in retail sales, net of fuel revenues, due to favorable weather in the current year;
- a \$21 million increase in other revenues primarily due to increased transmission revenues and nonregulated products and services revenues; and
- a \$16 million increase in wholesale power revenues, net of fuel, primarily due to increased demand.

Partially offset by:

- a \$59 million decrease in fuel and capacity revenues primarily due to a decrease in fuel and capacity rates billed to retail customers;
- a \$33 million decrease in retail rider revenues primarily related to decreased revenue requirements in the current year; and
- a \$14 million decrease in weather-normal retail sales volumes.

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Operating Expenses. The variance was driven primarily by:

- a \$90 million decrease in impairment charges primarily due to a prior year impairment at Citrus County CC and a reduction of the impairment in the current year; and
- a \$73 million decrease in fuel used in electric generation and purchased power primarily due to lower purchased power and lower fuel costs, net of deferrals.

Partially offset by:

- a \$74 million increase in depreciation and amortization expense primarily due to base rate adjustments related to Citrus County CC being placed in service, other additional plant in service and increases resulting from the 2018 Crystal River Unit 3 nuclear decommissioning cost study;
- an \$18 million increase in property and other taxes primarily due to higher property taxes from additional plant in service; and
- a \$9 million increase in operation, maintenance and other expense primarily due to increased vegetation management costs and deregulation initiative costs, partially offset by lower severance charges.

Other Income and Expenses, net. The variance was driven primarily by AFUDC equity return ending on the Citrus County CC in the fourth quarter of 2018.

Interest Expense. The variance was driven primarily by AFUDC debt return ending on the Citrus County CC in the fourth quarter of 2018 and higher debt outstanding in the current year.

Income Tax Expense. The increase in tax expense was primarily due to an increase in pretax income in the current year.

Matters Impacting Future Results

On October 10, 2018, Hurricane Michael made landfall on Florida's Panhandle as a Category 5 hurricane, the most powerful storm to hit the Florida Panhandle in recorded history. The storm caused significant damage within the service territory of Duke Energy Florida, particularly from Panama City Beach to Mexico Beach. In September 2019, Duke Energy Florida's service territory was threatened by Hurricane Dorian with landfall as a possible Category 5 hurricane and therefore Duke Energy Florida incurred costs to secure necessary resources to be prepared for that potential impact. A significant portion of the incremental operation and maintenance expenses related to these storms has been deferred. An order from regulatory authorities disallowing the future recovery of storm restoration costs could have an adverse impact on Duke Energy Florida's financial position, results of operations and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see Liquidity and Capital Resources for discussion of risks associated with the Tax Act.

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DUKE ENERGY OHIO

DUKE ENERGY OHIO

Results of Operations

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Operating Revenues			
Regulated electric	\$ 1,456	\$ 1,450	\$ 6
Regulated natural gas	484	506	(22)
Nonregulated electric and other	—	1	(1)
Total operating revenues	1,940	1,957	(17)
Operating Expenses			
Fuel used in electric generation and purchased power – regulated	388	412	(24)
Cost of natural gas	95	113	(18)
Operation, maintenance and other	520	480	40
Depreciation and amortization	265	268	(3)
Property and other taxes	308	290	18
Total operating expenses	1,576	1,563	13
Losses on Sales of Other Assets and Other, net	—	(106)	106
Operating Income	364	288	76
Other Income and Expenses, net	24	23	1
Interest Expense	109	92	17
Income from Continuing Operations Before Income Taxes	279	219	60
Income Tax Expense from Continuing Operations	40	43	(3)
Income from Continuing Operations	239	176	63
Loss from Discontinued Operations, net of tax	(1)	—	(1)
Net Income	\$ 238	\$ 176	\$ 62

The following table shows the percent changes in GWh sales of electricity, MCF of natural gas delivered and average number of electric and natural gas customers for Duke Energy Ohio. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities, public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	Electric		Natural Gas	
	2019	2018	2019	2018
Residential sales	(3.9)%	12.2 %	(3.7)%	18.0%
General service sales	(1.9)%	3.3 %	(1.2)%	15.4%
Industrial sales	(2.1)%	1.0 %	(0.4)%	8.1%
Wholesale electric power sales	(4.9)%	(46.6)%	n/a	n/a
Other natural gas sales	n/a	n/a	0.7 %	0.7%
Total sales	(2.4)%	2.8 %	(1.7)%	11.9%
Average number of customers	0.7 %	0.8 %	0.7 %	0.9%

Year Ended December 31, 2019, as compared to 2018

Operating Revenues. The variance was driven primarily by:

- a \$45 million decrease in fuel related revenues primarily due to a decrease in price;
- a \$31 million decrease in rider revenues primarily due to the cessation of the Smart Grid Rider in 2018 and the Tax Cut and Jobs Act Rider beginning in 2019, partially offset by new riders implemented in conjunction with rate cases including the Price Stabilization Rider, Electric Service Reliability Rider and the Environmental Surcharge Mechanism;
- a \$15 million decrease in FTR rider revenues; and
- a \$12 million decrease in electric and natural gas retail sales, net of fuel revenues, due to unfavorable weather in the current year.

Partially offset by:

- a \$71 million increase in retail pricing primarily due to rate case impacts; and
- an \$18 million increase in PJM point-to-point transmission revenues due to an increase in the Network Integration Transmission Service rate primarily due to additional plant in service.

Operating Expenses. The variance was driven primarily by:

- a \$40 million increase in operations, maintenance and other expense primarily due to the FERC approved settlement refund of certain transmission costs previously billed by PJM recorded in 2018 and increased PJM transmission expansion fees; and
- an \$18 million increase in property and other taxes primarily due to additional plant in service, partially offset by a negotiated reassessment of property values and property tax true ups for prior periods.

Partially offset by:

- a \$24 million decrease in fuel used in electric generation and purchased power expense due to the prior year outage at East Bend Station and the deferral of OVEC related purchased power costs; and
- an \$18 million decrease in the cost of natural gas primarily due to lower costs passed through to customers, as a result of a lower natural gas prices.

Losses on Sales of Other Assets and Other, net. The increase was driven by the loss on the prior year sale of Beckjord.

Interest Expense. The variance was primarily due to higher debt outstanding in the current year.

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DUKE ENERGY OHIO

Matters Impacting Future Results

On November 13, 2013, the PUCO issued an order authorizing recovery of MGP costs at certain sites in Ohio with a deadline to complete the MGP environmental investigation and remediation work prior to December 31, 2016. This deadline was subsequently extended to December 31, 2019. Duke Energy Ohio has filed a request for extension of the deadline. A hearing on that request has not been scheduled. Disallowance of costs incurred, failure to complete the work by the deadline or failure to obtain an extension from the PUCO could result in an adverse impact on Duke Energy Ohio's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see Liquidity and Capital Resources for discussion of risks associated with the Tax Act.

DUKE ENERGY INDIANA

Results of Operations

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Operating Revenues	\$ 3,004	\$ 3,059	\$ (55)
Operating Expenses			
Fuel used in electric generation and purchased power	935	1,000	(65)
Operation, maintenance and other	790	788	2
Depreciation and amortization	525	520	5
Property and other taxes	69	78	(9)
Impairment charges	—	30	(30)
Total operating expenses	2,319	2,416	(97)
Operating Income	685	643	42
Other Income and Expenses, net	41	45	(4)
Interest Expense	156	167	(11)
Income Before Income Taxes	570	521	49
Income Tax Expense	134	128	6
Net Income	\$ 436	\$ 393	\$ 43

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Indiana. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities, public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2019	2018
Residential sales	(3.9)%	12.5 %
General service sales	(2.2)%	2.8 %
Industrial sales	(2.6)%	0.5 %
Wholesale power sales	(27.7)%	(0.9)%
Total sales	(6.8)%	3.3 %
Average number of customers	1.2 %	1.3 %

Year Ended December 31, 2019, as compared to 2018

Operating Revenues. The variance was driven primarily by:

- a \$21 million decrease in wholesale power revenues primarily due to the expiration of a contract with a wholesale customer;
- a \$16 million decrease in other transmission FTR revenues due to lower congestion; and
- a \$14 million decrease in weather-normal retail sales volume.

Operating Expenses. The variance was driven primarily by:

- a \$65 million decrease in fuel used in electric generation and purchased power expense primarily due to lower coal and natural gas costs, partially offset by higher purchase power fuel clause, higher amortization of deferred fuel costs and higher deferred MISO charges; and
- a \$30 million decrease in impairments primarily due to the prior year Edwardsport IGCC settlement agreement.

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Matters Impacting Future Results

On April 17, 2015, the EPA published in the Federal Register a rule to regulate the disposal of CCR from electric utilities as solid waste. Duke Energy Indiana has interpreted the rule to identify the coal ash basin sites impacted and has assessed the amounts of coal ash subject to the rule and a method of compliance. Duke Energy Indiana's interpretation of the requirements of the CCR rule is subject to potential legal challenges and further regulatory approvals, which could result in additional ash basin closure requirements, higher costs of compliance and greater AROs. Additionally, Duke Energy Indiana has retired facilities that are not subject to the CCR rule. Duke Energy Indiana may incur costs at these facilities to comply with environmental regulations or to mitigate risks associated with on-site storage of coal ash. An order from regulatory authorities disallowing recovery of costs related to closure of ash basins could have an adverse impact on Duke Energy Indiana's results of operations, financial position and cash flows.

Duke Energy Indiana filed a general rate case with the IURC on July 2, 2019, its first general rate case in Indiana in 16 years. The outcome of this rate case could materially impact Duke Energy Indiana's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see Liquidity and Capital Resources for discussion of risks associated with the Tax Act.

PIEDMONT

Results of Operations

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Operating Revenues	\$ 1,381	\$ 1,375	\$ 6
Operating Expenses			
Cost of natural gas	532	584	(52)
Operation, maintenance and other	328	357	(29)
Depreciation and amortization	172	159	13
Property and other taxes	45	49	(4)
Total operating expenses	1,077	1,149	(72)
Operating Income	304	226	78
Equity in earnings of unconsolidated affiliates	8	7	1
Other income and expenses, net	20	14	6
Total other income and expenses	28	21	7
Interest Expense	87	81	6
Income Before Income Taxes	245	166	79
Income Tax Expense	43	37	6
Net Income	\$ 202	\$ 129	\$ 73

The following table shows the percent changes in Dth delivered and average number of customers. The percentages for all throughput deliveries represent billed and unbilled sales. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2019	2018
Residential deliveries	(8.0)%	23.6 %
Commercial deliveries	(4.6)%	14.9 %
Industrial deliveries	1.7 %	4.2 %
Power generation deliveries	(11.8)%	23.6 %
For resale	4.8 %	17.0 %
Total throughput deliveries	(8.2)%	19.0 %
Secondary market volumes	(0.5)%	(8.1)%
Average number of customers	1.4 %	1.6 %

Piedmont's throughput was 511,243,774 Dth and 557,145,128 Dth for the years ended December 31, 2019, and 2018, respectively. Due to the margin decoupling mechanism in North Carolina, WNA mechanisms in South Carolina and Tennessee and fixed price contracts with most power generation customers, changes in throughput deliveries do not have a material impact on Piedmont's revenues or earnings. The margin decoupling mechanism adjusts for variations in residential and commercial use per customer, including those due to weather and conservation. The WNA mechanisms mostly offset the impact of weather on bills rendered, but do not ensure full recovery of approved margin during periods when winter weather is significantly warmer or colder than normal.

Year Ended December 31, 2019, as compared to 2018

Operating Revenues. The variance was driven primarily by:

- a \$24 million increase due to North Carolina base rate case increases;
- a \$19 million increase due to North Carolina and Tennessee IMR increases; and

- an \$11 million increase due to NCUC approval related to tax reform accounting from fixed rate contracts.

Partially offset by:

- a \$52 million decrease due to lower natural gas costs passed through to customers.

Operating Expenses. The variance was driven primarily by:

- a \$52 million decrease in cost of natural gas due to lower natural gas prices; and
- a \$29 million decrease in operation, maintenance and other expense due to lower information technology outside services and labor costs.

Partially offset by:

- a \$13 million increase in depreciation and amortization expense due to additional plant in service.

Matters Impacting Future Results

Within this Item 7, see Liquidity and Capital Resources for discussion of risks associated with the Tax Act.

CRITICAL ACCOUNTING POLICIES AND ESTIMATES

Preparation of financial statements requires the application of accounting policies, judgments, assumptions and estimates that can significantly affect the reported results of operations, cash flows or the amounts of assets and liabilities recognized in the financial statements. Judgments made include the likelihood of success of particular projects, possible legal and regulatory challenges, earnings assumptions on pension and other benefit fund investments and anticipated recovery of costs, especially through regulated operations.

Management discusses these policies, estimates and assumptions with senior members of management on a regular basis and provides periodic updates on management decisions to the Audit Committee. Management believes the areas described below require significant judgment in the application of accounting policy or in making estimates and assumptions that are inherently uncertain and that may change in subsequent periods.

For further information, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

Regulated Operations Accounting

Substantially all of Duke Energy's regulated operations meet the criteria for application of regulated operations accounting treatment. As a result, Duke Energy is required to record assets and liabilities that would not be recorded for nonregulated entities. Regulatory assets generally represent incurred costs that have been deferred because such costs are probable of future recovery in customer rates. Regulatory liabilities are recorded when it is probable that a regulator will require Duke Energy to make refunds to customers or reduce rates to customers for previous collections or deferred revenue for costs that have yet to be incurred.

Management continually assesses whether recorded regulatory assets are probable of future recovery by considering factors such as:

- applicable regulatory environment changes;
- historical regulatory treatment for similar costs in Duke Energy's jurisdictions;
- litigation of rate orders;
- recent rate orders to other regulated entities;
- levels of actual return on equity compared to approved rates of return on equity; and
- the status of any pending or potential deregulation legislation.

If future recovery of costs ceases to be probable, asset write-offs would be recognized in operating income. Additionally, regulatory agencies can provide flexibility in the manner and timing of the depreciation of property, plant and equipment, recognition of asset retirement costs and amortization of regulatory assets, or may disallow recovery of all or a portion of certain assets.

As required by regulated operations accounting rules, significant judgment can be required to determine if an otherwise recognizable incurred cost qualifies to be deferred for future recovery as a regulatory asset. Significant judgment can also be required to determine if revenues previously recognized are for entity specific costs that are no longer expected to be incurred or have not yet been incurred and are therefore a regulatory liability.

Goodwill Impairment Assessments

Duke Energy performed its annual goodwill impairment tests for all reporting units as of August 31, 2019. Additionally, Duke Energy monitors all relevant events and circumstances during the year to determine if an interim impairment test is required. Such events and circumstances include an adverse regulatory outcome, declining financial performance and deterioration of industry or market conditions. As of August 31, 2019, all of the reporting units' estimated fair value of equity substantially exceeded the carrying value of equity. The fair values of the reporting units were calculated using a weighted combination of the income approach, which estimates fair value based on discounted cash flows, and the market approach, which estimates fair value based on market comparables within the utility and energy industries.

Estimated future cash flows under the income approach are based on Duke Energy's internal business plan. Significant assumptions used are growth rates, future rates of return expected to result from ongoing rate regulation and discount rates. Management determines the appropriate discount rate for each of its reporting units based on the WACC for each individual reporting unit. The WACC takes into account both the after-tax cost of debt and cost of equity. A major component of the cost of equity is the current risk-free rate on 20-year U.S. Treasury bonds. In the 2019 impairment tests, Duke Energy considered implied WACCs for certain peer companies in determining the appropriate WACC rates to use in its analysis. As each reporting unit has a different risk profile based on the nature of its operations, including factors such as regulation, the WACC for each reporting unit may differ. Accordingly, the WACCs were adjusted, as appropriate, to account for company specific risk premiums. The discount rates used for calculating the fair values as of August 31, 2019, for each of Duke Energy's reporting units ranged from 5.2% to 5.9%. The underlying assumptions and estimates are made as of a point in time. Subsequent changes, particularly changes in the discount rates, authorized regulated rates of return or growth rates inherent in management's estimates of future cash flows, could result in future impairment charges.

One of the most significant assumptions utilized in determining the fair value of reporting units under the market approach is implied market multiples for certain peer companies. Management selects comparable peers based on each peer's primary business mix, operations, and market capitalization compared to the applicable reporting unit and calculates implied market multiples based on available projected earnings guidance and peer company market values as of August 31.

Duke Energy primarily operates in environments that are rate-regulated. In such environments, revenue requirements are adjusted periodically by regulators based on factors including levels of costs, sales volumes and costs of capital. Accordingly, Duke Energy's regulated utilities operate to some degree with a buffer from the direct effects, positive or negative, of significant swings in market or economic conditions. However, significant changes in discount rates over a prolonged period may have a material impact on the fair value of equity.

For further information, see Note 12 to the Consolidated Financial Statements, "Goodwill and Intangible Assets."

Asset Retirement Obligations

AROs are recognized for legal obligations associated with the retirement of property, plant and equipment at the present value of the projected liability in the period in which it is incurred, if a reasonable estimate of fair value can be made.

The present value of the initial obligation and subsequent updates are based on discounted cash flows, which include estimates regarding timing of future cash flows, selection of discount rates and cost escalation rates, among other factors. These estimates are subject to change.

Obligations for nuclear decommissioning are based on site-specific cost studies. Duke Energy Carolinas and Duke Energy Progress assume prompt dismantlement of the nuclear facilities after operations are ceased. During 2019, Duke Energy Florida, entered into an agreement for the accelerated decommissioning of the Crystal River Unit 3 nuclear power station. Closing of this agreement is contingent upon approval of the NRC and FPSC. The retirement obligations for the decommissioning of Crystal River Unit 3 nuclear power station are measured using probability weightings of an obligation based on accelerated decommissioning from 2020 continuing through 2027 and an obligation based on the unit in SAFSTOR, with decommissioning beginning in 2067 and ending in 2074. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida also assume that spent fuel will be stored on-site until such time that it can be transferred to a yet to be built DOE facility.

Obligations for closure of ash basins are based upon discounted cash flows of estimated costs for site-specific plans. During 2019, Duke Energy reached a settlement agreement with the NCDEQ and SELC to excavate 7 and partially excavate 2 of the remaining ash basins in Duke Energy Carolinas and Duke Energy Progress service territories. In 2019, Duke Energy Carolinas and Duke Energy Progress remeasured their obligations to reflect the results of the settlement.

For further information, see Notes 4, 5 and 10 to the Consolidated Financial Statements, "Regulatory Matters," "Commitments and Contingencies" and "Asset Retirement Obligations."

Long-Lived Asset Impairment Assessments, Excluding Regulated Operations

Duke Energy evaluates property, plant and equipment for impairment when events or changes in circumstances (such as a significant change in cash flow projections or the determination that it is more likely than not that an asset or asset group will be sold) indicate the carrying value of such assets may not be recoverable. The determination of whether an impairment has occurred is based on an estimate of undiscounted future cash flows attributable to the assets, as compared with their carrying value.

Performing an impairment evaluation involves a significant degree of estimation and judgment in areas such as identifying circumstances that indicate an impairment may exist, identifying and grouping affected assets and developing the undiscounted future cash flows. If an impairment has occurred, the amount of the impairment recognized is determined by estimating the fair value and recording a loss if the carrying value is greater than the fair value. Additionally, determining fair value requires probability weighting future cash flows to reflect expectations about possible variations in their amounts or timing and the selection of an appropriate discount rate. Although cash flow estimates are based on relevant information available at the time the estimates are made, estimates of future cash flows are, by nature, highly uncertain and may vary significantly from actual results.

When determining whether an asset or asset group has been impaired, management groups assets at the lowest level that has discrete cash flows.

During 2019, Duke Energy sold a minority interest in a portion of certain Commercial Renewable assets. Following the sale, Duke Energy evaluated recoverability of the assets included in the sale as the fair value of consideration received for the portfolio was less than the carrying value of the assets. It was determined the assets were all recoverable. Additionally, Duke Energy evaluated recoverability of certain renewable merchant plants during 2019 due to declining market pricing and declining long-term forecasted energy prices. It was determined the assets were all recoverable as the carrying value of the assets approximated the aggregate estimated future cash flows.

For further information, see Notes 3 and 11 to the Consolidated Financial Statements, "Business Segments" and "Property, Plant and Equipment."

Equity Method Investments

Equity method investments are assessed for impairment when conditions exist that indicate that the fair value of the investment is less than book value. If the decline in value is considered to be other-than-temporary, an impairment charge is recorded and the investment is written down to its estimated fair value, which establishes a new cost basis in the investment.

Events or changes in circumstances are monitored that may indicate, in management's judgment, the carrying value of such investments may have experienced an other-than-temporary decline in value. The fair value of equity method investments is generally estimated using an income approach where significant judgments and assumptions include expected future cash flows, the appropriate discount rate, and probability weighted-scenarios, if applicable. In certain instances, a market approach may also be used to estimate the fair value of the equity method investment.

Events or changes in circumstances that may be indicative of an other-than-temporary decline in value will vary by investment, but may include:

- Significant delays in or failure to complete significant growth projects of investees;
- Adverse regulatory actions expected to substantially reduce the investee's product demand or profitability;
- Expected financial performance significantly worse than anticipated when initially invested;
- Prolonged period the fair value is below carrying value;
- A significant or sustained decline in the market value of an investee;
- Lower than expected cash distributions from investees;
- Significant asset impairments or operating losses recognized by investees; and
- Loss of significant customers or suppliers with no immediate prospects for replacement.

ACP

As of December 31, 2019, the carrying value of the equity method investment in ACP is \$1.2 billion, and Duke Energy's maximum exposure to loss for its guarantee of the ACP revolving credit facility is \$827 million. During 2018 and 2019, ACP received several adverse court rulings as described in Note 4 to the Consolidated Financial Statements, "Regulatory Matters." As a result, Duke Energy evaluated this investment for impairment and determined that fair value approximated carrying value and therefore no impairment was necessary.

Duke Energy estimated the fair value of its investment in ACP using an income approach that primarily considered probability-weighted scenarios of discounted future net cash flows based on the most recent estimate of total construction costs and revenues. These scenarios included assumptions of various court decisions and the impact those decisions may have on the timing and extent of investment, including scenarios assuming the full resolution of permitting issues in addition to a scenario where the project does not proceed. Certain scenarios within the analysis included growth expectations from additional compression or other expansion opportunities and reopeners for pricing. An after-tax discount rate of 5.9% was used in the analysis. The discount rate was derived using a market participant approach with an adjusted risk premium for the underlying investment. Higher probabilities were generally assigned to those scenarios where court approvals were received and the project moves forward reflecting interim rates at prices subject to the reopeners. A low probability was assigned to the scenario where the project does not proceed.

Judgments and assumptions are inherent in our estimates of future cash flows, discount rates, growth assumptions, and the likelihood of various scenarios. It is reasonably possible that future unfavorable developments, such as a reduced likelihood of success with court approvals, increased estimates of construction costs, material increases in the discount rate, important feedback on customer price increases or further significant delays, could result in a future impairment.

For further information on ACP, see Notes 4 and 13 to the Consolidated Financial Statements, "Regulatory Matters" and "Investments in Unconsolidated Affiliates".

Pension and Other Post-Retirement Benefits

The calculation of pension expense, other post-retirement benefit expense and net pension and other post-retirement assets or liabilities require the use of assumptions and election of permissible accounting alternatives. Changes in assumptions can result in different expense and reported asset or liability amounts and future actual experience can differ from the assumptions. Duke Energy believes the most critical assumptions for pension and other post-retirement benefits are:

- the expected long-term rate of return on plan assets;
- the assumed discount rate applied to future projected benefit payments; and
- the health care cost trend rate.

Duke Energy elects to amortize net actuarial gain or loss amounts that are in excess of 10% of the greater of the market-related value of plan assets or the plan's projected benefit obligation, into net pension or other post-retirement benefit expense over the average remaining service period of active participants expected to benefit under the plan. If all or almost all of a plan's participants are inactive, the average remaining life expectancy of the inactive participants is used instead of average remaining service period. Prior service cost or credit, which represents an increase or decrease in a plan's pension benefit obligation resulting from plan amendment, is amortized on a straight-line basis over the average expected remaining service period of active participants expected to benefit under the plan. If all or almost all of a plan's participants are inactive, the average remaining life expectancy of the inactive participants is used instead of average remaining service period.

As of December 31, 2019, Duke Energy assumes pension and other post-retirement plan assets will generate a long-term rate of return of 6.85%. The expected long-term rate of return was developed using a weighted average calculation of expected returns based primarily on future expected returns across asset classes considering the use of active asset managers, where applicable. The asset allocation targets were set after considering the investment objective and the risk profile. Equity securities are held for their higher expected returns. Debt securities are primarily held to hedge the qualified pension liability. Real assets, return-seeking fixed income, hedge funds and other global securities are held for diversification. Investments within asset classes are diversified to achieve broad market participation and reduce the impact of individual managers on investments.

Duke Energy discounted its future U.S. pension and other post-retirement obligations using a rate of 3.3% as of December 31, 2019. Discount rates used to measure benefit plan obligations for financial reporting purposes reflect rates at which pension benefits could be effectively settled. As of December 31, 2019, Duke Energy determined its discount rate for U.S. pension and other post-retirement obligations using a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

Future changes in plan asset returns, assumed discount rates and various other factors related to the participants in Duke Energy's pension and post-retirement plans will impact future pension expense and liabilities. Duke Energy cannot predict with certainty what these factors will be in the future. The following table presents the approximate effect on Duke Energy's 2019 pretax pension expense, pretax other post-retirement expense, pension obligation and other post-retirement benefit obligation if a 0.25% change in rates were to occur.

(in millions)	Qualified and Non-Qualified Pension Plans		Other Post-Retirement Plans	
	0.25%	(0.25)%	0.25%	(0.25)%
Effect on 2019 pretax pension and other post-retirement expense				
Expected long-term rate of return	\$ (21)	\$ 21	\$ (1)	\$ 1
Discount rate	(9)	9	—	(1)
Effect on pension and other post-retirement benefit obligation at December 31, 2019				
Discount rate	(197)	201	(14)	14

Duke Energy's other post-retirement plan uses a health care cost trend rate covering both pre- and post-age 65 retired plan participants, which is comprised of a medical care cost trend rate, which reflects the near- and long-term expectation of increases in medical costs, and a prescription drug cost trend rate, which reflects the near- and long-term expectation of increases in prescription drug costs. As of December 31, 2019, the health care cost trend rate was 6.0%, trending down to 4.75% by 2026. These plans are closed to new employees.

For further information, see Note 23 to the Consolidated Financial Statements, "Employee Benefit Plans."

LIQUIDITY AND CAPITAL RESOURCES

Sources and Uses of Cash

Duke Energy relies primarily upon cash flows from operations, debt and equity issuances and its existing cash and cash equivalents to fund its liquidity and capital requirements. Duke Energy's capital requirements arise primarily from capital and investment expenditures, repaying long-term debt and paying dividends to shareholders.

Among other provisions, the Tax Act lowered the corporate federal income tax rate from 35% to 21% and eliminated bonus depreciation for regulated utilities. For Duke Energy's regulated operations, the reduction in federal income taxes will result in lower regulated customer rates. However, due to its existing NOL position and other tax credits, Duke Energy does not expect to be a significant federal cash tax payer through at least 2027. As a result, any reduction in customer rates could cause a material reduction in consolidated cash flows from operations in the short term. Over time, the reduction in deferred tax liabilities resulting from the Tax Act will increase Duke Energy's regulated rate base investments and customer rates. Impacts of Tax Act to Duke Energy's cash flows and credit metrics are subject to the regulatory actions of its state commissions, of which a substantial amount remain uncertain through ongoing rate case activity, and the FERC. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

The Subsidiary Registrants generally maintain minimal cash balances and use short-term borrowings to meet their working capital needs and other cash requirements. The Subsidiary Registrants, excluding Progress Energy, support their short-term borrowing needs through participation with Duke Energy and certain of its other subsidiaries in a money pool arrangement. The companies with short-term funds may provide short-term loans to affiliates participating under this arrangement. See Note 7 to the Consolidated Financial Statements, "Debt and Credit Facilities," for additional discussion of the money pool arrangement.

Duke Energy and the Subsidiary Registrants, excluding Progress Energy, may also use short-term debt, including commercial paper and the money pool, as a bridge to long-term debt financings. The levels of borrowing may vary significantly over the course of the year due to the timing of long-term debt financings and the impact of fluctuations in cash flows from operations. From time to time, Duke Energy's current liabilities exceed current assets resulting from the use of short-term debt as a funding source to meet scheduled maturities of long-term debt, as well as cash needs, which can fluctuate due to the seasonality of its businesses.

Equity Issuance

In order to strengthen its balance sheet and credit metrics and bolster cash flows, in November 2019, Duke Energy entered into forward sales agreements for \$2.5 billion of common stock equity expected to be settled in late 2020. Duke Energy plans to issue \$500 million of common stock equity per year through at least 2022 through the DRIP and ATM programs. Additionally, Duke Energy will utilize other instruments as needed. See Note 20 to the Consolidated Financial Statements, "Stockholders' Equity," for further information regarding Duke Energy's equity issuances in 2019.

Credit Facilities and Registration Statements

See Note 7 to the Consolidated Financial Statements, "Debt and Credit Facilities," for further information regarding credit facilities and shelf registration statements available to Duke Energy and the Duke Energy Registrants.

CAPITAL EXPENDITURES

Duke Energy continues to focus on reducing risk and positioning its business for future success and will invest principally in its strongest business sectors. Duke Energy's projected capital and investment expenditures, including AFUDC debt and capitalized interest, for the next three fiscal years are included in the table below.

(in millions)	2020	2021	2022
New generation	\$ 115	\$ 230	\$ 475
Regulated renewables	515	450	410
Environmental	975	725	750
Nuclear fuel	465	410	415
Major nuclear	405	285	175
Customer additions	630	630	620
Grid modernization and other transmission and distribution projects	3,345	3,845	4,380
Maintenance and other	2,275	1,925	2,050
Total Electric Utilities and Infrastructure	8,725	8,500	9,275
Gas Utilities and Infrastructure	2,275	1,950	1,150
Commercial Renewables and Other	825	875	725
Total projected capital and investment expenditures	\$ 11,825	\$ 11,325	\$ 11,150

DEBT MATURITIES

See Note 7 to the Consolidated Financial Statements, "Debt and Credit Facilities," for further information regarding significant components of Current Maturities of Long-Term Debt on the Consolidated Balance Sheets.

DIVIDEND PAYMENTS

In 2019, Duke Energy paid quarterly cash dividends for the 93rd consecutive year and expects to continue its policy of paying regular cash dividends in the future. There is no assurance as to the amount of future dividends because they depend on future earnings, capital requirements, financial condition and are subject to the discretion of the Board of Directors.

Duke Energy targets a dividend payout ratio of between 65% and 75%, based upon adjusted diluted EPS, and expects this trend to continue through 2024. In 2019 and 2018, Duke Energy increased the dividend by approximately 2% and 4%, respectively, and the company remains committed to continued growth of the dividend.

Dividend and Other Funding Restrictions of Duke Energy Subsidiaries

As discussed in Note 4 to the Consolidated Financial Statements, "Regulatory Matters," Duke Energy's wholly owned public utility operating companies have restrictions on the amount of funds that can be transferred to Duke Energy through dividends, advances or loans as a result of conditions imposed by various regulators in conjunction with merger transactions. Duke Energy Progress and Duke Energy Florida also have restrictions imposed by their first mortgage bond indentures and Articles of Incorporation, which in certain circumstances, limit their ability to make cash dividends or distributions on common stock. Additionally, certain other Duke Energy subsidiaries have other restrictions, such as minimum working capital and tangible net worth requirements pursuant to debt and other agreements that limit the amount of funds that can be transferred to Duke Energy. At December 31, 2019, the amount of restricted net assets of wholly owned subsidiaries of Duke Energy that may not be distributed to Duke Energy in the form of a loan or dividend does not exceed a material amount of Duke Energy's net assets. Duke Energy does not have any legal or other restrictions on paying common stock dividends to shareholders out of its consolidated equity accounts. Although these restrictions cap the amount of funding the various operating subsidiaries can provide to Duke Energy, management does not believe these restrictions will have a significant impact on Duke Energy's ability to access cash to meet its payment of dividends on common stock and other future funding obligations.

CASH FLOWS FROM OPERATING ACTIVITIES

Cash flows from operations of Electric Utilities and Infrastructure and Gas Utilities and Infrastructure are primarily driven by sales of electricity and natural gas, respectively, and costs of operations. These cash flows from operations are relatively stable and comprise a substantial portion of Duke Energy's operating cash flows. Weather conditions, working capital and commodity price fluctuations and unanticipated expenses including unplanned plant outages, storms, legal costs and related settlements can affect the timing and level of cash flows from operations.

Duke Energy believes it has sufficient liquidity resources through the commercial paper markets, and ultimately, the Master Credit Facility, to support these operations. Cash flows from operations are subject to a number of other factors, including, but not limited to, regulatory constraints, economic trends and market volatility (see Item 1A, "Risk Factors," for additional information).

At December 31, 2019, Duke Energy had cash and cash equivalents and short-term investments of \$311 million.

DEBT ISSUANCES

Depending on availability based on the issuing entity, the credit rating of the issuing entity, and market conditions, the Subsidiary Registrants prefer to issue first mortgage bonds and secured debt, followed by unsecured debt. This preference is the result of generally higher credit ratings for first mortgage bonds and secured debt, which typically result in lower interest costs. Duke Energy Corporation primarily issues unsecured debt.

In 2020, Duke Energy anticipates issuing additional debt of \$5.2 billion, primarily for the purpose of funding capital expenditures and debt maturities. See to Note 7 to the Consolidated Financial Statements, "Debt and Credit Facilities," for further information regarding significant debt issuances in 2019.

Duke Energy's capitalization is balanced between debt and equity as shown in the table below.

	Projected 2020	Actual 2019	Actual 2018
Equity	45%	44%	43%
Debt	55%	56%	57%

Restrictive Debt Covenants

Duke Energy's debt and credit agreements contain various financial and other covenants. Duke Energy's Master Credit Facility contains a covenant requiring the debt-to-total capitalization ratio to not exceed 65% for each borrower, excluding Piedmont, and 70% for Piedmont. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements or sublimits thereto. As of December 31, 2019, each of the Duke Energy Registrants was in compliance with all covenants related to their debt agreements. In addition, some credit agreements may allow for acceleration of payments or termination of the agreements due to nonpayment, or acceleration of other significant indebtedness of the borrower or some of its subsidiaries. None of the debt or credit agreements contain material adverse change clauses.

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LIQUIDITY AND CAPITAL RESOURCES

Credit Ratings

Moody's Investors Service, Inc. and S&P provide credit ratings for various Duke Energy Registrants. In January 2020, Fitch Ratings, Inc. publicly announced plans to withdraw the ratings on Duke Energy Corporation on or about February 20, 2020. The following table includes Duke Energy and certain subsidiaries' credit ratings and ratings outlook as of February 2020.

	Moody's	S&P
Duke Energy Corporation	Stable	Stable
Issuer Credit Rating	Baa1	A-
Senior Unsecured Debt	Baa1	BBB+
Commercial Paper	P-2	A-2
Duke Energy Carolinas	Stable	Stable
Senior Secured Debt	Aa2	A
Senior Unsecured Debt	A1	A-
Progress Energy	Stable	Stable
Senior Unsecured Debt	Baa1	BBB+
Duke Energy Progress	Stable	Stable
Senior Secured Debt	Aa3	A
Duke Energy Florida	Stable	Stable
Senior Secured Debt	A1	A
Senior Unsecured Debt	A3	A-
Duke Energy Ohio	Stable	Stable
Senior Secured Debt	A2	A
Senior Unsecured Debt	Baa1	A-
Duke Energy Indiana	Stable	Stable
Senior Secured Debt	Aa3	A
Senior Unsecured Debt	A2	A-
Duke Energy Kentucky	Stable	Stable
Senior Unsecured Debt	Baa1	A-
Piedmont Natural Gas	Stable	Stable
Senior Unsecured	A3	A-

Credit ratings are intended to provide credit lenders a framework for comparing the credit quality of securities and are not a recommendation to buy, sell or hold. The Duke Energy Registrants' credit ratings are dependent on the rating agencies' assessments of their ability to meet their debt principal and interest obligations when they come due. If, as a result of market conditions or other factors, the Duke Energy Registrants are unable to maintain current balance sheet strength, or if earnings and cash flow outlook materially deteriorates, credit ratings could be negatively impacted.

Cash Flow Information

The following table summarizes Duke Energy's cash flows for the two most recently completed fiscal years.

(in millions)	Years Ended December 31,	
	2019	2018
Cash flows provided by (used in):		
Operating activities	\$ 8,209	\$ 7,186
Investing activities	(11,957)	(10,060)
Financing activities	3,730	2,960
Net (decrease) increase in cash, cash equivalents and restricted cash	(18)	86
Cash, cash equivalents and restricted cash at beginning of period	591	505
Cash, cash equivalents and restricted cash at end of period	\$ 573	\$ 591

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LIQUIDITY AND CAPITAL RESOURCES

OPERATING CASH FLOWS

The following table summarizes key components of Duke Energy's operating cash flows for the two most recently completed fiscal years.

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Net income	\$ 3,571	\$ 2,644	\$ 927
Non-cash adjustments to net income	5,761	6,447	(686)
Contributions to qualified pension plans	(77)	(141)	64
Payments for AROs	(746)	(533)	(213)
Payment for disposal of other assets	—	(105)	105
Refund of AMT credit carryforwards	573	—	573
Working capital	(873)	(1,126)	253
Net cash provided by operating activities	\$ 8,209	\$ 7,186	\$ 1,023

The variance was driven primarily by:

- a \$241 million increase in net income after adjustment for non-cash items primarily due to increases in revenues as a result of rate increases in the current year, partially offset by decreases in current year non-cash adjustments;
- a \$573 million refund of AMT credit carryforwards;
- a \$253 million decrease in cash outflows from working capital primarily due to fluctuations in accounts receivable balances, including a prior year increase for AMT refunds, and prior year increases in regulatory assets related to fuel costs, partially offset by fluctuations in inventory levels and current year decreases in property tax and severance accruals; and
- a \$105 million payment in the prior year for disposal of Beckjord.

Partially offset by:

- a \$213 million increase in payments for AROs.

INVESTING CASH FLOWS

The following table summarizes key components of Duke Energy's investing cash flows for the two most recently completed fiscal years.

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Capital, investment and acquisition expenditures, net of return of investment capital	\$ (11,435)	\$ (9,668)	\$ (1,767)
Debt and equity securities, net	(5)	(15)	10
Other investing items	(517)	(377)	(140)
Net cash used in investing activities	\$ (11,957)	\$ (10,060)	\$ (1,897)

The primary use of cash related to investing activities is capital, investment and acquisition expenditures, net of return of investment capital detailed by reportable business segment in the following table. The increase includes expenditures related to line improvements in the Electric Utilities and Infrastructure segment and pipeline construction and improvement in the Gas Utilities and Infrastructure segment, as well as increased investment in the Commercial Renewables segment.

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Electric Utilities and Infrastructure	\$ 8,258	\$ 8,086	\$ 172
Gas Utilities and Infrastructure	1,533	1,133	400
Commercial Renewables	1,423	193	1,230
Other	221	256	(35)
Total capital, investment and acquisition expenditures, net of return of investment capital	\$ 11,435	\$ 9,668	\$ 1,767

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LIQUIDITY AND CAPITAL RESOURCES

FINANCING CASH FLOWS

The following table summarizes key components of Duke Energy's financing cash flows for the two most recently completed fiscal years.

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Issuance of common stock	\$ 384	\$ 1,838	\$ (1,454)
Issuance of preferred stock	1,962	—	1,962
Issuances of long-term debt, net	3,615	2,393	1,222
Notes payable and commercial paper	(380)	1,171	(1,551)
Dividends paid	(2,668)	(2,471)	(197)
Contributions from noncontrolling interests	843	41	802
Other financing items	(26)	(12)	(14)
Net cash provided by financing activities	\$ 3,730	\$ 2,960	\$ 770

The variance was driven primarily by:

- a \$1,962 million increase in proceeds from the issuance of preferred stock;
- a \$1,222 million net increase in proceeds from issuances of long-term debt primarily due to timing of issuances and redemptions of long-term debt; and
- an \$802 million increase in contributions from noncontrolling interests, including \$415 million related to the sale of a noncontrolling interest in the Commercial Renewables segment.

Partially offset by:

- a \$1,454 million decrease in proceeds from the issuance of common stock; and
- a \$1,551 million decrease in net borrowings from notes payable and commercial paper primarily due to the use of proceeds from the preferred stock issuance and increased long-term debt issuances used to pay down outstanding commercial paper.

Off-Balance Sheet Arrangements

Duke Energy and certain of its subsidiaries enter into guarantee arrangements in the normal course of business to facilitate commercial transactions with third parties. These arrangements include performance guarantees, standby letters of credit, debt guarantees, surety bonds and indemnifications.

Most of the guarantee arrangements entered into by Duke Energy enhance the credit standing of certain subsidiaries, non-consolidated entities or less than wholly owned entities, enabling them to conduct business. As such, these guarantee arrangements involve elements of performance and credit risk, which are not always included on the Consolidated Balance Sheets. The possibility of Duke Energy, either on its own or on behalf of Spectra Capital through indemnification agreements entered into as part of the January 2, 2007, spin-off of Spectra Energy Corp, having to honor its contingencies is largely dependent upon the future operations of the subsidiaries, investees and other third parties, or the occurrence of certain future events.

Duke Energy performs ongoing assessments of its respective guarantee obligations to determine whether any liabilities have been incurred as a result of potential increased non-performance risk by third parties for which Duke Energy has issued guarantees. See Note 8 to the Consolidated Financial Statements, "Guarantees and Indemnifications," for further details of the guarantee arrangements. Issuance of these guarantee arrangements is not required for the majority of Duke Energy's operations. Thus, if Duke Energy discontinued issuing these guarantees, there would not be a material impact to the consolidated results of operations, cash flows or financial position.

In November 2019, Duke Energy executed equity forward sales agreements. Settlement of the forward sales agreements are expected to occur on or prior to December 31, 2020. See Note 20 to the Consolidated Financial Statements, "Stockholders' Equity" for further details on the equity forward sales agreements.

Other than the guarantee arrangements discussed above, the equity forward sales agreements and off-balance sheet debt related to non-consolidated VIEs, Duke Energy does not have any material off-balance sheet financing entities or structures. For additional information, see Note 18 to the Consolidated Financial Statements, "Variable Interest Entities".

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OFF-BALANCE SHEET ARRANGEMENTS AND CONTRACTUAL OBLIGATIONS

Contractual Obligations

Duke Energy enters into contracts that require payment of cash at certain specified periods, based on certain specified minimum quantities and prices. The following table summarizes Duke Energy's contractual cash obligations as of December 31, 2019.

		Payments Due By Period				
			Less than 1 year (2020)	2-3 years (2021 & 2022)	4-5 years (2023 & 2024)	More than 5 years (2025 & beyond)
(in millions)	Total					
Long-term debt ^(a)	\$ 56,174	\$ 3,021	\$ 9,135	\$ 4,870	\$ 39,148	
Interest payments on long-term debt ^(b)	33,988	2,163	3,986	3,516	24,323	
Finance leases ^(c)	1,659	181	359	296	823	
Operating leases ^(c)	2,036	268	417	367	984	
Purchase obligations: ^(d)						
Fuel and purchased power ^{(e)(f)}	26,250	4,124	5,390	3,798	12,938	
Other purchase obligations ^(g)	5,456	4,836	322	76	222	
Nuclear decommissioning trust annual funding ^(h)	606	24	62	62	458	
Land easements ⁽ⁱ⁾	217	9	18	20	170	
Total contractual cash obligations ^{(j)(k)}	\$ 126,386	\$ 14,626	\$ 19,689	\$ 13,005	\$ 79,066	

- (a) See Note 7 to the Consolidated Financial Statements, "Debt and Credit Facilities."
- (b) Interest payments on variable rate debt instruments were calculated using December 31, 2019, interest rates and holding them constant for the life of the instruments.
- (c) See Note 6 to the Consolidated Financial Statements, "Leases." Amounts in the table above include the interest component of finance leases based on the interest rates stated in the lease agreements and exclude certain related executory costs. Amounts exclude contingent lease obligations.
- (d) Current liabilities, except for current maturities of long-term debt, and purchase obligations reflected on the Consolidated Balance Sheets have been excluded from the above table.
- (e) Includes firm capacity payments that provide Duke Energy with uninterrupted firm access to electricity transmission capacity and natural gas transportation contracts, as well as undesignated contracts and contracts that qualify as NPNS. For contracts where the price paid is based on an index, the amount is based on market prices at December 31, 2019, or the best projections of the index. For certain of these amounts, Duke Energy may settle on a net cash basis since Duke Energy has entered into payment netting arrangements with counterparties that permit Duke Energy to offset receivables and payables with such counterparties.
- (f) Amounts exclude obligations under the OVEC PPA. See Note 18 to the Consolidated Financial Statements, "Variable Interest Entities," for additional information.
- (g) Includes contracts for software, telephone, data and consulting or advisory services. Amount also includes contractual obligations for EPC costs for new generation plants, wind and solar facilities, plant refurbishments, maintenance and day-to-day contract work and commitments to buy certain products. Amount excludes certain open purchase orders for services that are provided on demand for which the timing of the purchase cannot be determined.
- (h) Related to future annual funding obligations to NDTF through nuclear power stations' relicensing dates. See Note 10 to the Consolidated Financial Statements, "Asset Retirement Obligations."
- (i) Related to Commercial Renewables wind facilities.
- (j) Unrecognized tax benefits of \$126 million are not reflected in this table as Duke Energy cannot predict when open income tax years will close with completed examinations. See Note 24 to the Consolidated Financial Statements, "Income Taxes."
- (k) The table above excludes reserves for litigation, environmental remediation, asbestos-related injuries and damages claims and self-insurance claims (see Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies") because Duke Energy is uncertain as to the timing and amount of cash payments that will be required. Additionally, the table above excludes annual insurance premiums that are necessary to operate the business, including nuclear insurance (see Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies"), funding of pension and other post-retirement benefit plans (see Note 23 to the Consolidated Financial Statements, "Employee Benefit Plans"), AROs, including ash management expenditures (see Note 10 to the Consolidated Financial Statements, "Asset Retirement Obligations") and regulatory liabilities (see Note 4 to the Consolidated Financial Statements, "Regulatory Matters") because the amount and timing of the cash payments are uncertain. Also excluded are Deferred Income Taxes and ITCs recorded on the Consolidated Balance Sheets since cash payments for income taxes are determined based primarily on taxable income for each discrete fiscal year.

QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Risk Management Policies

The Enterprise Risk Management policy framework at Duke Energy includes strategy, operational, project execution and financial or transaction related risks. Enterprise Risk Management includes market risk as part of the financial and transaction related risks in its framework.

Duke Energy is exposed to market risks associated with commodity prices, interest rates and equity prices. Duke Energy has established comprehensive risk management policies to monitor and manage these market risks. Duke Energy's Chief Executive Officer and Chief Financial Officer are responsible for the overall approval of market risk management policies and the delegation of approval and authorization levels. The Finance and Risk Management Committee of the Board of Directors receives periodic updates from the Chief Risk Officer and other members of management on market risk positions, corporate exposures and overall risk management activities. The Chief Risk Officer is responsible for the overall governance of managing commodity price risk, including monitoring exposure limits.

The following disclosures about market risk contain forward-looking statements that involve estimates, projections, goals, forecasts, assumptions, risks and uncertainties that could cause actual results or outcomes to differ materially from those expressed in the forward-looking statements. See Item 1A, "Risk Factors," and "Cautionary Statement Regarding Forward-Looking Information" for a discussion of the factors that may impact any such forward-looking statements made herein.

Commodity Price Risk

Duke Energy is exposed to the impact of market fluctuations in the prices of electricity, coal, natural gas and other energy-related products marketed and purchased as a result of its ownership of energy-related assets. Duke Energy's exposure to these fluctuations is primarily limited by the cost-based regulation of its regulated operations as these operations are typically allowed to recover substantially all of these costs through various cost-recovery clauses, including fuel clauses, formula-based contracts, or other cost-sharing mechanisms. While there may be a delay in timing between when these costs are incurred and when they are recovered through rates, changes from year to year generally do not have a material impact on operating results of these regulated operations. Within Duke Energy's Commercial Renewables segment, the company has limited exposure to market price fluctuations in prices of energy-related products as a result of its ownership of renewable assets.

Price risk represents the potential risk of loss from adverse changes in the market price of electricity or other energy commodities. Duke Energy's exposure to commodity price risk is influenced by a number of factors, including contract size, length, market liquidity, location and unique or specific contract terms. Duke Energy employs established policies and procedures to manage risks associated with these market fluctuations, which may include using various commodity derivatives, such as swaps, futures, forwards and options. For additional information, see Note 15 to the Consolidated Financial Statements, "Derivatives and Hedging."

Hedging Strategies

Duke Energy closely monitors risks associated with commodity price changes on its future operations and, where appropriate, uses various commodity instruments such as electricity, coal and natural gas forward contracts and options to mitigate the effect of such fluctuations on operations. Duke Energy's primary use of energy commodity derivatives is to hedge against exposure to the prices of power, fuel for generation and natural gas for customers. Additionally, Duke Energy's Commercial Renewables business may enter into short-term or long-term hedge agreements to manage price risk associated with project output.

The majority of instruments used to manage Duke Energy's commodity price exposure are either not designated as hedges or do not qualify for hedge accounting. These instruments are referred to as undesignated contracts. Mark-to-market changes for undesignated contracts entered into by regulated businesses are reflected as regulatory assets or liabilities on the Consolidated Balance Sheets. Undesignated contracts entered into by unregulated businesses are marked-to-market each period, with changes in the fair value of the derivative instruments reflected in earnings.

Duke Energy may also enter into other contracts that qualify for the NPNS exception. When a contract meets the criteria to qualify as NPNS, Duke Energy applies such exception. Income recognition and realization related to NPNS contracts generally coincide with the physical delivery of the commodity. For contracts qualifying for the NPNS exception, no recognition of the contract's fair value in the Consolidated Financial Statements is required until settlement of the contract as long as the transaction remains probable of occurring.

Generation Portfolio Risks

The Duke Energy Registrants optimize the value of their generation portfolios, which include generation assets, fuel and emission allowances. Modeled forecasts of future generation output and fuel requirements are based on forward power and fuel markets. The component pieces of the portfolio are bought and sold based on models and forecasts of generation in order to manage the economic value of the portfolio in accordance with the strategies of the business units.

For the Electric Utilities and Infrastructure segment, the generation portfolio not utilized to serve retail operations or committed load is subject to commodity price fluctuations. However, the impact on the Consolidated Statements of Operations is partially offset by mechanisms in these regulated jurisdictions that result in the sharing of net profits from these activities with retail customers.

Interest Rate Risk

Duke Energy is exposed to risk resulting from changes in interest rates as a result of its issuance or anticipated issuance of variable and fixed-rate debt and commercial paper. Duke Energy manages interest rate exposure by limiting variable-rate exposures to a percentage of total debt and by monitoring the effects of market changes in interest rates. Duke Energy also enters into financial derivative instruments, which may include instruments such as, but not limited to, interest rate swaps, swaptions and U.S. Treasury lock agreements to manage and mitigate interest rate risk exposure. See Notes 1, 7, 15 and 17 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies," "Debt and Credit Facilities," "Derivatives and Hedging," and "Fair Value Measurements."

Duke Energy had \$8.6 billion of unhedged long- and short-term floating interest rate exposure at December 31, 2019. The impact of a 100-basis point change in interest rates on pretax income is approximately \$86 million at December 31, 2019. This amount was estimated by considering the impact of the hypothetical interest rates on variable-rate securities outstanding, adjusted for interest rate hedges as of December 31, 2019.

Certain Duke Energy Registrants have variable-rate debt and manage interest rate risk by entering into financial contracts including interest rate swaps. See Notes 7 and 15 to the Consolidated Financial Statements, "Debt and Credit Facilities" and "Derivatives and Hedging." Such financial arrangements generally are indexed based upon LIBOR, which is expected to be phased out by the end of 2021. The Secured Overnight Financing Rate (SOFR) has been identified by regulators and industry participants as the preferred successor rate for U.S. dollar-based LIBOR at that time. Impacted financial arrangements extending beyond 2021 may require contractual amendment or termination and renegotiation to fully adapt to a post-LIBOR environment, and there may be uncertainty regarding the effectiveness of any such alternative index methodologies. Alternative index provisions are being assessed and incorporated into new financial arrangements that extend beyond 2021. Additionally, the progress of the phaseout is being monitored, including proposed transition relief from the FASB.

Credit Risk

Credit risk represents the loss that the Duke Energy Registrants would incur if a counterparty fails to perform under its contractual obligations. Where exposed to credit risk, the Duke Energy Registrants analyze the counterparty's financial condition prior to entering into an agreement and monitor exposure on an ongoing basis. The Duke Energy Registrants establish credit limits where appropriate in the context of contractual arrangements and monitor such limits.

To reduce credit exposure, the Duke Energy Registrants seek to include netting provisions with counterparties, which permit the offset of receivables and payables with such counterparties. The Duke Energy Registrants also frequently use master agreements with credit support annexes to further mitigate certain credit exposures. The master agreements provide for a counterparty to post cash or letters of credit to the exposed party for exposure in excess of an established threshold. The threshold amount represents a negotiated unsecured credit limit for each party to the agreement, determined in accordance with the Duke Energy Registrants' internal corporate credit practices and standards. Collateral agreements generally also provide that the failure to post collateral when required is sufficient cause to terminate transactions and liquidate all positions.

The Duke Energy Registrants also obtain cash, letters of credit, or surety bonds from certain counterparties to provide credit support outside of collateral agreements, where appropriate, based on a financial analysis of the counterparty and the regulatory or contractual terms and conditions applicable to each transaction. See Note 15 to the Consolidated Financial Statements, "Derivatives and Hedging," for additional information regarding credit risk related to derivative instruments.

The Duke Energy Registrants' principal counterparties for its electric and natural gas businesses are RTOs, distribution companies, municipalities, electric cooperatives and utilities located throughout the U.S. Exposure to these entities consists primarily of amounts due to Duke Energy Registrants for delivered electricity. Additionally, there may be potential risks associated with remarketing of energy and capacity in the event of default by wholesale power customers. The Duke Energy Registrants have concentrations of receivables from certain of such entities that may affect the Duke Energy Registrants' credit risk.

The Duke Energy Registrants are also subject to credit risk from transactions with their suppliers that involve prepayments or milestone payments in conjunction with outsourcing arrangements, major construction projects and certain commodity purchases. The Duke Energy Registrants' credit exposure to such suppliers may take the form of increased costs or project delays in the event of non-performance. The Duke Energy Registrants frequently require guarantees or letters of credit from suppliers to mitigate this credit risk.

Credit risk associated with the Duke Energy Registrants' service to residential, commercial and industrial customers is generally limited to outstanding accounts receivable. The Duke Energy Registrants mitigate this credit risk by requiring tariff customers to provide a cash deposit, letter of credit or surety bond until a satisfactory payment history is established, subject to the rules and regulations in effect in each retail jurisdiction at which time the deposit is typically refunded. Charge-offs for retail customers have historically been insignificant to the operations of the Duke Energy Registrants and are typically recovered through retail rates. Management continually monitors customer charge-offs and payment patterns to ensure the adequacy of bad debt reserves. Duke Energy Ohio and Duke Energy Indiana sell certain of their accounts receivable and related collections through CRC, a Duke Energy consolidated VIE. Losses on collection are first absorbed by the equity of CRC and next by the subordinated retained interests held by Duke Energy Ohio, Duke Energy Kentucky and Duke Energy Indiana. See Note 18 to the Consolidated Financial Statements, "Variable Interest Entities." Duke Energy also provides certain non-tariff services, primarily to large commercial and industrial customers in which incurred costs are intended to be recovered from the individual customer and therefore are not subject to rate recovery in the event of customer default. Customer credit worthiness is assessed prior to entering into these transactions.

Duke Energy's Commercial Renewables segment enters into long-term agreements with certain creditworthy buyers that may not include the right to call for collateral in the event of a credit rating downgrade. Credit concentration exists to certain counterparties on these agreements, including entities that could be subject to wildfire liability. Additionally, Commercial Renewables may invest in projects for which buyers are below investment grade, although such buyers are required to post negotiated amounts of credit support. Also, power sales agreements and/or hedges of project output are generally for an initial term that does not cover the entire life of the asset. As a result, Commercial Renewables is exposed to market price risk and credit risk related to these agreements.

Duke Energy Carolinas has third-party insurance to cover certain losses related to asbestos-related injuries and damages above an aggregate self-insured retention. See Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies" for information on asbestos-related injuries and damages claims.

The Duke Energy Registrants also have credit risk exposure through issuance of performance and financial guarantees, letters of credit and surety bonds on behalf of less than wholly owned entities and third parties. Where the Duke Energy Registrants have issued these guarantees, it is possible that they could be required to perform under these guarantee obligations in the event the obligor under the guarantee fails to perform. Where the Duke Energy Registrants have issued guarantees related to assets or operations that have been disposed of via sale, they attempt to secure indemnification from the buyer against all future performance obligations under the guarantees. See Note 8 to the Consolidated Financial Statements, "Guarantees and Indemnifications," for further information on guarantees issued by the Duke Energy Registrants.

Based on the Duke Energy Registrants' policies for managing credit risk, their exposures and their credit and other reserves, the Duke Energy Registrants do not currently anticipate a materially adverse effect on their consolidated financial position or results of operations as a result of non-performance by any counterparty.

Marketable Securities Price Risk

As described further in Note 16 to the Consolidated Financial Statements, "Investments in Debt and Equity Securities," Duke Energy invests in debt and equity securities as part of various investment portfolios to fund certain obligations. The vast majority of investments in equity securities are within the NDTF and assets of the various pension and other post-retirement benefit plans.

Pension Plan Assets

Duke Energy maintains investments to facilitate funding the costs of providing non-contributory defined benefit retirement and other post-retirement benefit plans. These investments are exposed to price fluctuations in equity markets and changes in interest rates. The equity securities held in these pension plans are diversified to achieve broad market participation and reduce the impact of any single investment, sector or geographic region. Duke Energy has established asset allocation targets for its pension plan holdings, which take into consideration the investment objectives and the risk profile with respect to the trust in which the assets are held. See Note 23 to the Consolidated Financial Statements, "Employee Benefit Plans," for additional information regarding investment strategy of pension plan assets.

A significant decline in the value of plan asset holdings could require Duke Energy to increase funding of its pension plans in future periods, which could adversely affect cash flows in those periods. Additionally, a decline in the fair value of plan assets, absent additional cash contributions to the plan, could increase the amount of pension cost required to be recorded in future periods, which could adversely affect Duke Energy's results of operations in those periods.

Nuclear Decommissioning Trust Funds

As required by the NRC, NCUC, PSCSC and FPSC, subsidiaries of Duke Energy maintain trust funds to fund the costs of nuclear decommissioning. As of December 31, 2019, these funds were invested primarily in domestic and international equity securities, debt securities, cash and cash equivalents and short-term investments. Per the NRC, Internal Revenue Code, NCUC, PSCSC and FPSC requirements, these funds may be used only for activities related to nuclear decommissioning. These investments are exposed to price fluctuations in equity markets and changes in interest rates. Duke Energy actively monitors its portfolios by benchmarking the performance of its investments against certain indices and by maintaining, and periodically reviewing, target allocation percentages for various asset classes.

Accounting for nuclear decommissioning recognizes that costs are recovered through retail and wholesale rates; therefore, fluctuations in investment prices do not materially affect the Consolidated Statements of Operations, as changes in the fair value of these investments are primarily deferred as regulatory assets or regulatory liabilities pursuant to Orders by the NCUC, PSCSC, FPSC and FERC. Earnings or losses of the fund will ultimately impact the amount of costs recovered through retail and wholesale rates. See Note 10 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information regarding nuclear decommissioning costs. See Note 16 to the Consolidated Financial Statements, "Investments in Debt and Equity Securities," for additional information regarding NDTF assets.

OTHER MATTERS

Environmental Regulations

The Duke Energy Registrants are subject to federal, state and local regulations regarding air and water quality, hazardous and solid waste disposal, coal ash and other environmental matters. These regulations can be changed from time to time and result in new obligations of the Duke Energy Registrants.

The following sections outline various proposed and recently enacted legislation and regulations that may impact the Duke Energy Registrants. Refer to Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for further information regarding potential plant retirements and regulatory filings related to the Duke Energy Registrants.

Coal Combustion Residuals

In April 2015, EPA published a rule to regulate the disposal of CCR from electric utilities as solid waste. The federal regulation classifies CCR as nonhazardous waste and allows for beneficial use of CCR with some restrictions. The regulation applies to all new and existing landfills, new and existing surface impoundments receiving CCR and existing surface impoundments located at stations generating electricity (regardless of fuel source), which were no longer receiving CCR but contained liquids as of the effective date of the rule. The rule establishes requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring, protection and remedial procedures and other operational and reporting procedures to ensure the safe disposal and management of CCR. Various industry and environmental parties appealed EPA's CCR rule in the D.C. Circuit Court. On April 18, 2016, EPA filed a motion with the federal court to settle five issues raised in litigation. On June 14, 2016, the court approved the motion with respect to all of those issues. Duke Energy does not expect a material impact from the settlement or that it will result in additional ARO adjustments. On September 13, 2017, EPA responded to a petition by the Utility Solid Waste Activities Group that the agency would reconsider certain provisions of the final rule, and asked the D.C. Circuit Court to suspend the litigation. The D.C. Circuit Court denied EPA's petition to suspend the litigation and oral argument was held on November 20, 2017. On August 21, 2018, the D.C. Circuit issued its decision in the CCR rule litigation denying relief for industry petitioners' remaining claims and ruling in favor of environmental petitioners on a number of their challenges, including the regulation of inactive CCR surface impoundments at retired plants and the continued operation of unlined impoundments.

On March 15, 2018, EPA published proposed amendments to the federal CCR rule, including revisions that were required as part of the CCR litigation settlement, as well as changes that the agency considered warranted due to the passage of the Water Infrastructure Improvements for the Nation Act, which provides statutory authority for state and federal CCR permit programs. On July 17, 2018, EPA issued a rule (Phase 1, Part 1) finalizing certain, but not all, elements included in the agency's March 15, 2018, proposal. The final rule revises certain closure deadlines and groundwater protection standards in the CCR rule. It does not change the primary requirements for groundwater monitoring, corrective action, inspections and maintenance, and closure, and thus does not materially affect Duke Energy's coal ash basin closure plans or compliance obligations under the CCR rule. On October 22, 2018, a coalition of environmental groups filed a petition for review in the D.C. Circuit Court challenging EPA's final Phase 1, Part 1 revisions to the CCR rule. On March 13, 2019, the D.C. Circuit Court issued an order in the Phase 1, Part 1 litigation granting EPA's motion to remand the rule without vacatur. EPA is currently conducting multiple notice-and-comment rulemakings to implement the court's decision on remand.

In addition to the requirements of the federal CCR rule, CCR landfills and surface impoundments will continue to be regulated by most states. Cost recovery for future expenditures will be pursued through the normal ratemaking process with federal and state utility commissions and via wholesale contracts, which permit recovery of necessary and prudently incurred costs associated with Duke Energy's regulated operations. For more information, see Notes 4 and 10 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively.

Coal Ash Management Act of 2014

AROs recorded on the Duke Energy Carolinas and Duke Energy Progress Consolidated Balance Sheets at December 31, 2019, and December 31, 2018, include the legal obligation for closure of coal ash basins and the disposal of related ash as a result of the Coal Ash Act, the EPA CCR rule and other agreements. The Coal Ash Act includes a variance procedure for compliance deadlines and other issues surrounding the management of CCR and CCR surface impoundments and prohibits cost recovery in customer rates for unlawful discharge of ash impoundment waters occurring after January 1, 2014. The Coal Ash Act leaves the decision on cost recovery determinations related to closure of ash impoundments to the normal ratemaking processes before utility regulatory commissions.

Consistent with the requirements of the Coal Ash Act, Duke Energy previously submitted comprehensive site assessments and groundwater corrective plans to NCDEQ. In addition, on December 31, 2019, Duke Energy submitted updated groundwater corrective action plans and site-specific coal ash impoundment closure plans to NCDEQ.

On April 1, 2019, NCDEQ issued a closure determination requiring Duke Energy Carolinas and Duke Energy Progress to excavate all remaining coal ash impoundments at the Allen, Belews Creek, Rogers, Marshall, Mayo and Roxboro facilities in North Carolina. On April 26, 2019, Duke Energy Carolinas and Duke Energy Progress filed Petitions for Contested Case Hearings in the Office of Administrative Hearings to challenge NCDEQ's April 1 Order. On December 31, 2019, Duke Energy Carolinas and Duke Energy Progress entered into a settlement agreement with NCDEQ and certain community groups under which Duke Energy Carolinas and Duke Energy Progress agreed to excavate seven of the nine remaining coal ash basins at these sites with ash moved to on-site lined landfills, including two at Allen, one at Belews Creek, one at Mayo, one at Roxboro, and two at Rogers. At the two remaining basins at Marshall and Roxboro, uncapped basin ash will be excavated and moved to lined landfills. Those portions of the basins at Marshall and Roxboro, which were previously filled with ash and on which permitted facilities were constructed, will not be disturbed and will be closed pursuant to other state regulations. For more information, see Note 5, "Commitments and Contingencies," to the Consolidated Financial Statements.

Following NCDEQ's April 1 Order, Duke Energy estimated the incremental undiscounted cost to close the nine remaining impoundments by excavation would be approximately \$4 billion to \$5 billion, potentially increasing the total estimated costs to permanently close all ash basins in North Carolina and South Carolina to \$9.5 billion to \$10.5 billion. The settlement lowers the estimated total undiscounted cost to close the nine remaining basins by excavation by approximately \$1.5 billion as compared to Duke Energy's original estimate that followed the order. As a result, the estimated total cost to permanently close all ash basins in North Carolina and South Carolina is now approximately \$8 billion to \$9 billion, of which approximately \$2.3 billion has been spent through 2019. The majority of the remaining spend is expected to occur over the next 15-20 years. Duke Energy intends to seek recovery of all costs through the ratemaking process consistent with previous proceedings.

In 2019, Duke Energy completed excavation of all coal ash at the Riverbend and Dan River plants and coal ash regulated by the Coal Ash Act at the Sutton plant.

For further information on ash basins and recovery, see Notes 4 and 10 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively.

Estimated Cost and Impacts of Rulemakings

Duke Energy will incur capital expenditures to comply with the environmental regulations and rules discussed above. The following table, as of December 31, 2019, provides five-year estimated costs, excluding AFUDC, of new control equipment that may need to be installed on existing power plants primarily to comply with the Coal Ash Act requirements for conversion to dry disposal of bottom ash and fly ash, CWA 316(b) and Effluent Limitations Guidelines through December 31, 2024. The table excludes ash basin closure costs recorded in Asset retirement obligations on the Consolidated Balance Sheets. For more information related to AROs, see Note 10 to the Consolidated Financial Statements.

(in millions)	Five-Year Estimated Costs
Duke Energy	\$ 280
Duke Energy Carolinas	135
Progress Energy	90
Duke Energy Progress	60
Duke Energy Florida	30
Duke Energy Ohio	5
Duke Energy Indiana	50

The Duke Energy Registrants also expect to incur increased fuel, purchased power, operation and maintenance and other expenses, in addition to costs for replacement generation for potential coal-fired power plant retirements, as a result of these regulations. Actual compliance costs incurred may be materially different from these estimates due to reasons such as the timing and requirements of EPA regulations and the resolution of legal challenges to the rules. The Duke Energy Registrants intend to seek rate recovery of necessary and prudently incurred costs associated with regulated operations to comply with these regulations.

Other Environmental Regulations

The Duke Energy Registrants are also subject to various federal, state and local laws regarding air and water quality, hazardous and solid waste disposal and other environmental matters, including the following:

- Clean Water Act
- Steam Effluent Limitation Guidelines
- Cross-State Air Pollution Rule
- Clean Power Plan/ACE Rule

Duke Energy continues to comply with enacted environmental statutes and regulations even as certain of these regulations are in various stages of clarification, revision or legal challenge. The Duke Energy Registrants cannot predict the outcome of these matters.

Section 126 Petitions

On November 16, 2016, the state of Maryland filed a petition with EPA under Section 126 of the Clean Air Act alleging that 19 power plants, including two plants (three units) that Duke Energy Registrants own and operate, contribute to violations of EPA's National Ambient Air Quality Standards (NAAQS) for ozone in the state of Maryland. On March 12, 2018, the state of New York filed a petition with EPA, also under Section 126 of the Clean Air Act alleging that over 60 power plants, including six that Duke Energy Registrants own and operate, contribute to violations of EPA's ozone NAAQS in the state of New York. Both Maryland and New York sought EPA orders requiring the states in which the named power plants operate impose more stringent NO_x emission limitations on the plants. On October 5, 2018, EPA denied the Maryland petition. That same day, Maryland appealed EPA's denial. On October 18, 2019, EPA denied the New York petition, and New York appealed that decision on October 29, 2019. Both appeals are before the D.C. Circuit Court. The impact of these petitions could be more stringent requirements for the operation of NO_x emission controls at these plants. The Duke Energy Registrants cannot predict the outcome of these matters.

Global Climate Change

On September 17, 2019, Duke Energy announced an updated climate strategy with a new goal of net-zero carbon emissions from electric generation by 2050. Timelines and initiatives, as well as implementation of new technologies, will vary in each state in which the company operates and will involve collaboration with regulators, customers and other stakeholders.

The Duke Energy Registrants' GHG emissions consist primarily of CO₂ and result primarily from operating a fleet of coal-fired and natural gas-fired power plants. In 2019, the Duke Energy Registrants' power plants emitted approximately 93 million tons of CO₂. Future levels of CO₂ emissions will be influenced by variables that include fuel prices, market prices, compliance with new or existing regulations, economic conditions that affect electricity demand and the technologies deployed to generate the electricity necessary to meet the customer demand.

The Duke Energy Registrants have taken actions that have resulted in a reduction of CO₂ emissions over time. Actions have included the retirement of 47 coal-fired Electric Generating Units with a combined generating capacity of 5,425 MW. Much of that capacity has been replaced with state-of-the-art highly efficient natural gas-fired generation that produces far fewer CO₂ emissions per unit of electricity generated. Duke Energy also has made investments to expand its portfolio of wind and solar projects, increase EE offerings and invest in its zero-CO₂ emissions hydropower and nuclear plants. These efforts have diversified its system and significantly reduced CO₂ emissions. Between 2005 and 2019, the Duke Energy Registrants have collectively lowered the CO₂ emissions from their electricity generation by 39%, which potentially lowers the exposure to any future mandatory CO₂ emission reduction requirements or carbon tax, whether as a result of federal legislation, EPA regulation, state regulation or other as yet unknown emission reduction requirement. Duke Energy will continue to explore the use of currently available and commercially demonstrated technology to reduce CO₂ emissions, including EE, wind, solar, storage and nuclear. Duke Energy will adjust to evolving and innovative technologies in a way that balances the reliability and affordability that customers expect. Under any future scenario involving mandatory CO₂ limitations, the Duke Energy Registrants would plan to seek recovery of their compliance costs through appropriate regulatory mechanisms.

The Duke Energy Registrants recognize certain groups associate severe weather events with increasing levels of GHGs in the atmosphere and forecast the possibility these weather events could have a material impact on future results of operations should they occur more frequently and with greater severity. However, the uncertain nature of potential changes in extreme weather events (such as increased frequency, duration and severity), the long period of time over which any potential changes might take place and the inability to predict potential changes with any degree of accuracy, make estimating any potential future financial risk to the Duke Energy Registrants' operations impossible.

The Duke Energy Registrants annually, biennially or triennially prepare lengthy, forward-looking IRPs. These detailed, highly technical plans are based on the company's thorough analysis of numerous factors that can impact the cost of producing and delivering electricity that influence long-term resource planning decisions. The IRP process helps to evaluate a range of options, taking into account forecasts of future electricity demand, fuel prices, transmission improvements, new generating capacity, integration of renewables, energy storage, EE and demand response initiatives. The IRP process also helps evaluate potential environmental and regulatory scenarios to better mitigate policy and economic risks. The IRPs we file with regulators look out 10 to 20 years depending on the jurisdiction.

For a number of years, the Duke Energy Registrants have included a price on CO₂ emissions in their IRP planning process to account for the potential regulation of CO₂ emissions. Incorporating a price on CO₂ emissions in the IRPs allows for the evaluation of existing and future resource needs against potential climate change policy risk in the absence of policy certainty. One of the challenges with using a CO₂ price, especially in the absence of a clear and certain policy, is determining the appropriate price to use. To address this uncertainty and ensure the company remains agile, the Duke Energy Registrants typically use a range of potential CO₂ prices to reflect a range of potential policy outcomes.

The Duke Energy Registrants routinely take steps to reduce the potential impact of severe weather events on their electric distribution systems by modernizing the electric grid through smart meters, storm hardening, self-healing and targeted undergrounding and applying lessons learned from previous storms to restoration efforts. The Duke Energy Registrants' electric generating facilities are designed to withstand extreme weather events without significant damage. The Duke Energy Registrants maintain an inventory of coal and oil on-site to mitigate the effects of any potential short-term disruption in fuel supply so they can continue to provide customers with an uninterrupted supply of electricity.

State Legislation

In July 2017, the North Carolina General Assembly passed House Bill 589, and it was subsequently signed into law by the governor. The law includes, among other things, overall reform of the application of PURPA for new solar projects in the state, a requirement for the utility to procure approximately 2,600 MW of renewable energy through a competitive bidding process and recovery of costs related to the competitive bidding process through the fuel clause and a competitive procurement rider.

In accordance with the provisions of HB 589, total procurement was changed based upon how much generation with no economic dispatch or curtailment occurs over the procurement period. Most of this type of generation is solar procured under PURPA. Based upon the current forecasted amount of such generation that will occur over procurement period, Duke Energy estimates the total under HB 589 competitive procurement will be approximately 1,500 to 2,000 MW.

Based on an independent evaluation process, Duke Energy will own or purchase a total of 551 MW of renewable energy from projects under the North Carolina's CPRE program. The process used was approved by the NCUC to select projects that would deliver the lowest cost renewable energy for customers. Five Duke Energy projects, totaling about 190 MW, were selected during the competitive bidding process. Duke Energy has completed the contracting process for the winning projects. A second tranche for CPRE opened in October 2019 and bids are due by March 9, 2020; the current target date for execution of the contracts is the fourth quarter of 2020.

In various states, legislation is being considered to allow third-party sales of electricity. Deregulation or restructuring in the electric industry may result in increased competition and unrecovered costs. The Duke Energy Registrants cannot predict the outcome of these initiatives.

New Accounting Standards

See Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies," for a discussion of the impact of new accounting standards.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

See "Management's Discussion and Analysis of Results of Operations and Financial Condition – Quantitative and Qualitative Disclosures About Market Risk."

FINANCIAL STATEMENTS

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

Duke Energy

Report of Independent Registered Public Accounting Firm	78
Consolidated Statements of Operations	80
Consolidated Statements of Comprehensive Income	81
Consolidated Balance Sheets	82
Consolidated Statements of Cash Flows	83
Consolidated Statements of Changes in Equity	84

Duke Energy Carolinas

Report of Independent Registered Public Accounting Firm	85
Consolidated Statements of Operations and Comprehensive Income	86
Consolidated Balance Sheets	87
Consolidated Statements of Cash Flows	88
Consolidated Statements of Changes in Equity	89

Progress Energy

Report of Independent Registered Public Accounting Firm	90
Consolidated Statements of Operations and Comprehensive Income	91
Consolidated Balance Sheets	92
Consolidated Statements of Cash Flows	93
Consolidated Statements of Changes in Equity	94

Duke Energy Progress

Report of Independent Registered Public Accounting Firm	95
Consolidated Statements of Operations and Comprehensive Income	96
Consolidated Balance Sheets	97
Consolidated Statements of Cash Flows	98
Consolidated Statements of Changes in Equity	99

Duke Energy Florida

Report of Independent Registered Public Accounting Firm	100
Consolidated Statements of Operations and Comprehensive Income	101
Consolidated Balance Sheets	102
Consolidated Statements of Cash Flows	103
Consolidated Statements of Changes in Equity	104

Duke Energy Ohio

Report of Independent Registered Public Accounting Firm	105
Consolidated Statements of Operations and Comprehensive Income	106
Consolidated Balance Sheets	107
Consolidated Statements of Cash Flows	108
Consolidated Statements of Changes in Equity	109

Duke Energy Indiana

Report of Independent Registered Public Accounting Firm	110
Consolidated Statements of Operations and Comprehensive Income	111
Consolidated Balance Sheets	112
Consolidated Statements of Cash Flows	113
Consolidated Statements of Changes in Equity	114

Piedmont

Report of Independent Registered Public Accounting Firm	115
Consolidated Statements of Operations and Comprehensive Income	116
Consolidated Balance Sheets	117
Consolidated Statements of Cash Flows	118
Consolidated Statements of Changes in Equity	119

FINANCIAL STATEMENTS

Combined Notes to Consolidated Financial Statements

Note 1 – Summary of Significant Accounting Policies	<u>120</u>
Note 2 – Acquisitions and Dispositions	<u>128</u>
Note 3 – Business Segments	<u>129</u>
Note 4 – Regulatory Matters	<u>134</u>
Note 5 – Commitments and Contingencies	<u>154</u>
Note 6 – Leases	<u>161</u>
Note 7 – Debt and Credit Facilities	<u>165</u>
Note 8 – Guarantees and Indemnifications	<u>172</u>
Note 9 – Joint Ownership of Generating and Transmission Facilities	<u>172</u>
Note 10 – Asset Retirement Obligations	<u>173</u>
Note 11 – Property, Plant and Equipment	<u>176</u>
Note 12 – Goodwill and Intangible Assets	<u>178</u>
Note 13 – Investments in Unconsolidated Affiliates	<u>179</u>
Note 14 – Related Party Transactions	<u>181</u>
Note 15 – Derivatives and Hedging	<u>182</u>
Note 16 – Investments in Debt and Equity Securities	<u>189</u>
Note 17 – Fair Value Measurements	<u>194</u>
Note 18 – Variable Interest Entities	<u>200</u>
Note 19 – Revenue	<u>204</u>
Note 20 – Stockholders' Equity	<u>209</u>
Note 21 – Severance	<u>211</u>
Note 22 – Stock-Based Compensation	<u>211</u>
Note 23 – Employee Benefit Plans	<u>213</u>
Note 24 – Income Taxes	<u>229</u>
Note 25 – Other Income and Expenses, Net	<u>237</u>
Note 26 – Subsequent Events	<u>237</u>
Note 27 – Quarterly Financial Data (Unaudited)	<u>238</u>

REPORTS

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SEP 13 2021

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholders and the Board of Directors of Duke Energy Corporation

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Corporation and subsidiaries (the "Company") as of December 31, 2019 and 2018, the related consolidated statements of operations, comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2019, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2019 and 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019, in conformity with accounting principles generally accepted in the United States of America.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2019, based on criteria established in *Internal Control - Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated February 20, 2020, expressed an unqualified opinion on the Company's internal control over financial reporting.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical Audit Matters

The critical audit matters communicated below are matters arising from the current-period audit of the financial statements that were communicated or required to be communicated to the audit committee and that (1) relate to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matters below, providing separate opinions on the critical audit matters or on the accounts or disclosures to which they relate.

Investment in Unconsolidated Affiliates - Equity Method Investments - Refer to Notes 4 and 13 to the financial statements.

Critical Audit Matter Description

Investments in affiliates that are not controlled by the Company but over which the Company has significant influence are accounted for using the equity method of accounting. Equity method investments are assessed for impairment whenever events or changes in circumstances indicate that the carrying amount of the investment may not be recoverable. If the decline in value is considered to be other than temporary, the investment is written down to its estimated fair value, which establishes a new cost basis in the investment.

At December 31, 2019, the carrying value of the equity method investment in Atlantic Coast Pipeline, LLC (ACP) was \$1.2 billion. ACP has received several adverse court rulings, and as a result, the Company evaluated this investment for impairment. The Company has determined that fair value approximates carrying value and, therefore, concluded the investment is not impaired. The Company used probability-weighted outcome scenarios of discounted future cash flows to estimate the fair value of the investment. The use of probability-weighted, discounted cash flows requires management to make significant estimates regarding the likelihood of various scenarios, the key assumptions including total construction cost and revenues, and the discount rate utilized to determine the fair value estimate. Changes in these assumptions could have a significant impact on the fair value estimate, which is used to determine the amount of any impairment.

We identified the impairment evaluation of ACP as a critical audit matter because of the significant estimates and assumptions management makes related to the probability-weighted, discounted cash flows. The audit procedures to evaluate the reasonableness of management's estimates and assumptions related to the likelihood of various scenarios, the key assumptions including total construction cost and revenues, and the discount rate required a high degree of auditor judgement and an increased extent of effort, including the need to involve our fair value specialists.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to the discounted, probability-weighted forecasts of future cash flows and determination of the fair value of the ACP equity method investment, included the following, among others:

- We tested the effectiveness of controls over the accounting for the ACP equity method investment, including those over the development of the fair value estimate.
- We evaluated the likelihood of the various outcomes used by management to develop the probability-weighted scenarios of future cash flows by:

REPORTS

- Obtaining letters and making inquiries from the ACP's internal and external legal counsel regarding likely outcomes of future court rulings
 - Reading information included in the Company's and the project manager's press releases, regulatory filings and orders, legal briefs and orders, and analyst and industry reports
 - Reading internal communications to management and the Board of Directors
 - Comparing the various scenarios to scenarios previously developed by management
- We evaluated the reasonableness of the key assumptions used to develop the scenarios of future cash flows by comparing key assumptions to:
 - Internal communications and schedules to management and the Board of Directors
 - Information included in the Company's and the project manager's press releases, regulatory filings and related orders
 - Industry reports and external transaction data
 - Executed contracts and invoices
 - With the assistance of our fair value specialists, we evaluated the reasonableness of the (1) valuation methodology and (2) discount rate used to develop the fair value estimate by:
 - Determining the appropriateness of the valuation methodology by comparing management's methodology to generally accepted valuation practice
 - Testing the mathematical accuracy of the fair value estimate
 - Testing the source information underlying the determination of the discount rate
 - Developing a range of independent estimates of the discount rate and comparing those to the discount rate selected by management

Regulatory Matters - Impact of Rate Regulation on the Financial Statements - Refer to Notes 1, 4, and 10 to the financial statements.

Critical Audit Matter Description

The Company is subject to regulation by federal and state utility regulatory agencies (the "Commissions"), which have jurisdiction with respect to the rates of the Company's electric and natural gas distribution companies. Management has determined it meets the criteria for the application of regulated operations accounting in preparing its financial statements under accounting principles generally accepted in the United States of America. Significant judgment can be required to determine if otherwise recognizable incurred costs qualify to be presented as a regulatory asset and deferred because such costs are probable of future recovery in customer rates. As of December 31, 2019, the Company has \$15 billion recorded as regulatory assets.

We identified the impact of rate regulation as a critical audit matter due to the significant judgments made by management, including assumptions regarding the outcome of future decisions by the Commissions, to support its assertions on the likelihood of future recovery for deferred costs. As such, auditing these judgments required specialized knowledge of accounting for rate regulation due to its inherent complexities, a high degree of auditor judgment, and an increased extent of effort.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to the recovery of regulatory assets included the following, among others:

- We tested the effectiveness of management's controls over the evaluation of the likelihood of the recovery in future rates of regulatory assets and the monitoring and evaluation of regulatory developments that may affect the likelihood of recovering costs in future rates.
- We evaluated the Company's disclosures related to the impacts of rate regulation, including the balances recorded and regulatory developments.
- We read relevant regulatory orders issued by the Commissions, regulatory statutes, interpretations, procedural memorandums, filings made by interveners, and other publicly available information to assess the likelihood of recovery in future rates based on precedence of the Commission's treatment of similar costs under similar circumstances. We evaluated the external information and compared to management's recorded regulatory asset balances for completeness.
- For regulatory matters in process, we inspected the Company's and intervenors' filings with the Commissions that may impact the Company's future rates, for any evidence that might contradict management's assertions.
- We performed audit procedures on the incurred costs requested for recovery to confirm their completeness and accuracy.
- We obtained an analysis from management and letters from internal and external legal counsel, as appropriate, regarding probability of recovery for regulatory assets not yet addressed in a regulatory order to assess management's assertion that amounts are probable of recovery.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 20, 2020

We have served as the Company's auditor since 1947.

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FINANCIAL STATEMENTS

**DUKE ENERGY CORPORATION
CONSOLIDATED STATEMENTS OF OPERATIONS**

(in millions, except per share amounts)	Years Ended December 31,		
	2019	2018	2017
Operating Revenues			
Regulated electric	\$ 22,615	\$ 22,097	\$ 21,177
Regulated natural gas	1,759	1,773	1,734
Nonregulated electric and other	705	651	654
Total operating revenues	25,079	24,521	23,565
Operating Expenses			
Fuel used in electric generation and purchased power	6,826	6,831	6,350
Cost of natural gas	627	697	632
Operation, maintenance and other	6,066	6,463	5,944
Depreciation and amortization	4,548	4,074	3,527
Property and other taxes	1,307	1,280	1,233
Impairment charges	(8)	402	282
Total operating expenses	19,366	19,747	17,968
(Losses) Gains on Sales of Other Assets and Other, net	(4)	(89)	28
Operating Income	5,709	4,685	5,625
Other Income and Expenses			
Equity in earnings of unconsolidated affiliates	162	83	119
Other income and expenses, net	430	399	508
Total other income and expenses	592	482	627
Interest Expense	2,204	2,094	1,986
Income From Continuing Operations Before Income Taxes	4,097	3,073	4,266
Income Tax Expense From Continuing Operations	519	448	1,196
Income From Continuing Operations	3,578	2,625	3,070
(Loss) Income From Discontinued Operations, net of tax	(7)	19	(6)
Net Income	3,571	2,644	3,064
Less: Net (Loss) Income Attributable to Noncontrolling Interests	(177)	(22)	5
Net Income Attributable to Duke Energy Corporation	3,748	2,666	3,059
Less: Preferred Dividends	41	—	—
Net Income Available to Duke Energy Corporation Common Stockholders	\$ 3,707	\$ 2,666	\$ 3,059
Earnings Per Share – Basic and Diluted			
Income from continuing operations available to Duke Energy Corporation common stockholders			
Basic and Diluted	\$ 5.07	\$ 3.73	\$ 4.37
(Loss) Income from discontinued operations attributable to Duke Energy Corporation common stockholders			
Basic and Diluted	\$ (0.01)	\$ 0.03	\$ (0.01)
Net income available to Duke Energy Corporation common stockholders			
Basic and Diluted	\$ 5.06	\$ 3.76	\$ 4.36
Weighted average shares outstanding			
Basic and Diluted	729	708	700

See Notes to Consolidated Financial Statements

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SEP 13 2021

FINANCIAL STATEMENTS

DUKE ENERGY CORPORATION
CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2019	2018	2017
Net Income	\$ 3,571	\$ 2,644	\$ 3,064
Other Comprehensive (Loss) Income, net of tax^(a)			
Pension and OPEB adjustments	9	(6)	3
Net unrealized (losses) gains on cash flow hedges	(47)	(10)	2
Reclassification into earnings from cash flow hedges	6	6	8
Unrealized gains (losses) on available-for-sale securities	8	(3)	13
Other Comprehensive (Loss) Income, net of tax	(24)	(13)	26
Comprehensive Income	3,547	2,631	3,090
Less: Comprehensive (Loss) Income Attributable to Noncontrolling Interests	(177)	(22)	5
Comprehensive Income Attributable to Duke Energy Corporation	3,724	2,653	3,085
Less: Preferred Dividends	41	—	—
Comprehensive Income Available to Duke Energy Corporation Common Stockholders	\$ 3,683	\$ 2,653	\$ 3,085

(a) Tax impacts are insignificant for all periods presented.

See Notes to Consolidated Financial Statements

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SEP 13 2021

FINANCIAL STATEMENTS

G-9, Item 30

Attachment 4 of 16

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DUKE ENERGY CORPORATION

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2019	2018
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 311	\$ 442
Receivables (net of allowance for doubtful accounts of \$22 at 2019 and \$16 at 2018)	1,066	962
Receivables of VIEs (net of allowance for doubtful accounts of \$54 at 2019 and \$55 at 2018)	1,994	2,172
Inventory	3,232	3,084
Regulatory assets (includes \$52 at 2019 and 2018 related to VIEs)	1,796	2,005
Other (includes \$242 at 2019 and \$162 at 2018 related to VIEs)	764	1,049
Total current assets	9,163	9,714
Property, Plant and Equipment		
Cost	147,654	134,458
Accumulated depreciation and amortization	(45,773)	(43,126)
Generation facilities to be retired, net	246	362
Net property, plant and equipment	102,127	91,694
Other Noncurrent Assets		
Goodwill	19,303	19,303
Regulatory assets (includes \$989 at 2019 and \$1,041 at 2018 related to VIEs)	13,222	13,617
Nuclear decommissioning trust funds	8,140	6,720
Operating lease right-of-use assets, net	1,658	—
Investments in equity method unconsolidated affiliates	1,936	1,409
Other (includes \$110 at 2019 and \$261 at 2018 related to VIEs)	3,289	2,935
Total other noncurrent assets	47,548	43,984
Total Assets	\$ 158,838	\$ 145,392
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 3,487	\$ 3,487
Notes payable and commercial paper	3,135	3,410
Taxes accrued	392	577
Interest accrued	565	559
Current maturities of long-term debt (includes \$216 at 2019 and \$227 at 2018 related to VIEs)	3,141	3,406
Asset retirement obligations	881	919
Regulatory liabilities	784	598
Other	2,367	2,085
Total current liabilities	14,752	15,041
Long-Term Debt (includes \$3,997 at 2019 and \$3,998 at 2018 related to VIEs)	54,985	51,123
Other Noncurrent Liabilities		
Deferred income taxes	8,878	7,806
Asset retirement obligations	12,437	9,548
Regulatory liabilities	15,264	14,834
Operating lease liabilities	1,432	—
Accrued pension and other post-retirement benefit costs	934	988
Investment tax credits	624	568
Other (includes \$228 at 2019 and \$212 at 2018 related to VIEs)	1,581	1,650
Total other noncurrent liabilities	41,150	35,394
Commitments and Contingencies		
Equity		
Preferred stock, Series A, \$0.001 par value, 40 million depositary shares authorized and outstanding at 2019	973	—
Preferred stock, Series B, \$0.001 par value, 1 million shares authorized and outstanding at 2019	989	—
Common stock, \$0.001 par value, 2 billion shares authorized; 733 million shares outstanding at 2019 and 727 million shares outstanding at 2018	1	1
Additional paid-in capital	40,881	40,795
Retained earnings	4,108	3,113
Accumulated other comprehensive loss	(130)	(92)
Total Duke Energy Corporation stockholders' equity	46,822	43,817
Noncontrolling interests	1,129	17
Total equity	47,951	43,834
Total Liabilities and Equity	\$ 158,838	\$ 145,392

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

G-9, Item 30

Attachment 4 of 16

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DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2019	2018	2017
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 3,571	\$ 2,644	\$ 3,064
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion (including amortization of nuclear fuel)	5,176	4,696	4,046
Equity component of AFUDC	(139)	(221)	(237)
Losses (Gains) on sales of other assets	4	88	(33)
Impairment charges	(8)	402	282
Deferred income taxes	806	1,079	1,433
Equity in earnings of unconsolidated affiliates	(162)	(83)	(119)
Accrued pension and other post-retirement benefit costs	24	61	8
Contributions to qualified pension plans	(77)	(141)	(19)
Payments for asset retirement obligations	(746)	(533)	(571)
Payment for the disposal of other assets	—	(105)	—
Provision for rate refunds	60	425	—
Refund of AMT credit carryforwards	573	—	—
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	(48)	22	18
Receivables	78	(345)	(83)
Inventory	(122)	156	268
Other current assets	10	(721)	(400)
Increase (decrease) in			
Accounts payable	(164)	479	(204)
Taxes accrued	(224)	23	149
Other current liabilities	172	270	(482)
Other assets	(520)	(971)	(436)
Other liabilities	(55)	(39)	(60)
Net cash provided by operating activities	8,209	7,186	6,624
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(11,122)	(9,389)	(8,052)
Contributions to equity method investments	(324)	(416)	(414)
Return of investment capital	11	137	281
Purchases of debt and equity securities	(3,348)	(3,762)	(4,071)
Proceeds from sales and maturities of debt and equity securities	3,343	3,747	4,098
Other	(517)	(377)	(284)
Net cash used in investing activities	(11,957)	(10,060)	(8,442)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the:			
Issuance of long-term debt	7,091	5,299	6,909
Issuance of preferred stock	1,962	—	—
Issuance of common stock	384	1,838	—
Payments for the redemption of long-term debt	(3,476)	(2,906)	(2,316)
Proceeds from the issuance of short-term debt with original maturities greater than 90 days	397	472	319
Payments for the redemption of short-term debt with original maturities greater than 90 days	(479)	(282)	(272)
Notes payable and commercial paper	(298)	981	(409)
Contributions from noncontrolling interests	843	41	—
Dividends paid	(2,668)	(2,471)	(2,450)
Other	(26)	(12)	1
Net cash provided by financing activities	3,730	2,960	1,782
Net (decrease) increase in cash, cash equivalents, and restricted cash	(18)	86	(36)
Cash, cash equivalents, and restricted cash at beginning of period	591	505	541
Cash, cash equivalents, and restricted cash at end of period	\$ 573	\$ 591	\$ 505
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 2,195	\$ 2,086	\$ 1,963
Cash (received from) paid for income taxes	(651)	(266)	4
Significant non-cash transactions:			
Accrued capital expenditures	1,356	1,112	1,032
Non-cash dividends	108	107	—

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

DUKE ENERGY CORPORATION
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

	Duke Energy Corporation Stockholders' Accumulated Other Comprehensive Income (Loss)										
	Net Unrealized										Total
	Preferred Stock	Common Stock Shares	Common Stock	Additional Paid-in Capital	Retained Earnings	Net Losses on Cash Flow Hedges	Net Gains (Losses) on Available-for-Sale Securities	Pension and OPEB Adjustments	Duke Energy Corporation Stockholders' Equity	Noncontrolling Interests	Total
(in millions)											
Balance at December 31, 2016											
Net income	—	700	\$ —	1	\$ 38,741	\$ 2,384	\$ (20)	\$ (1)	\$ 41,033	\$ 8	\$ 41,041
Other comprehensive income	—	—	—	—	—	3,059	—	—	3,059	5	3,064
Common stock issuances, including dividend reinvestment and employee benefits	—	—	—	—	—	—	10	13	26	—	26
Common stock dividends	—	—	—	51	—	—	—	—	51	—	51
Distributions to noncontrolling interest in subsidiaries	—	—	—	—	(2,450)	—	—	—	(2,450)	—	(2,450)
Other ^(a)	—	—	—	—	—	—	—	—	—	(2)	(2)
Balance at December 31, 2017	—	700	\$ —	1	\$ 38,792	\$ 3,013	\$ (10)	\$ 12	\$ 41,739	\$ (2)	\$ 41,737
Net income	—	—	—	—	—	2,666	—	—	2,666	(22)	2,644
Other comprehensive loss	—	—	—	—	—	—	(4)	(3)	(13)	—	(13)
Common stock issuances, including dividend reinvestment and employee benefits	—	27	—	2,003	—	—	—	—	2,003	—	2,003
Common stock dividends	—	—	—	—	(2,578)	—	—	—	(2,578)	—	(2,578)
Distributions to noncontrolling interest in subsidiaries	—	—	—	—	—	—	—	—	—	(1)	(1)
Other ^(b)	—	—	—	—	12	—	(12)	—	—	42	42
Balance at December 31, 2018	—	727	\$ —	1	\$ 40,795	\$ 3,113	\$ (14)	\$ (3)	\$ 43,817	\$ 17	\$ 43,834
Net income	—	—	—	—	—	3,707	—	—	3,707	(177)	3,530
Other comprehensive (loss) income	—	—	—	—	—	—	(41)	8	(24)	—	(24)
Preferred stock, Series A, issuances, net of issuance costs ^(c)	973	—	—	—	—	—	—	—	973	—	973
Preferred stock, Series B, issuances, net of issuance costs ^(d)	989	—	—	—	—	—	—	—	989	—	989
Common stock issuances, including dividend reinvestment and employee benefits	—	6	—	552	—	—	—	—	552	—	552
Common stock dividends	—	—	—	—	(2,735)	—	—	—	(2,735)	—	(2,735)
Sale of noncontrolling interest ^(e)	—	—	—	(466)	—	—	10	—	(456)	863	407
Contribution from noncontrolling interest	—	—	—	—	—	—	—	—	—	428	428
Distributions to noncontrolling interests in subsidiaries	—	—	—	—	—	—	—	—	—	(4)	(4)
Other ^(f)	—	—	—	—	23	(6)	(2)	(16)	(1)	2	1
Balance at December 31, 2019	1,962	733	\$ —	1	\$ 40,881	\$ 4,108	\$ (51)	\$ 3	\$ 46,822	\$ 1,129	\$ 47,951

(a) Retained Earnings relates to a cumulative-effect adjustment due to implementation of a new accounting standard related to stock-based compensation and the associated income taxes.

See Note 1 to the Consolidated Financial Statements for additional information. Noncontrolling Interests relates to the purchase of remaining interest in REC Solar.

(b) Amounts in Retained Earnings and AOCI represent a cumulative-effect adjustment due to implementation of a new accounting standard related to Financial Instruments Classification and Measurement. See Note 1 for more information. Amount in Noncontrolling Interests primarily relates to tax equity financing activity in the Commercial Renewables segment. Amounts in the consolidated financial statements for quantitative information: Noncontrolling Interests related to the purchase of remaining interest in VLSI Solar.

(c) Duke Energy issued 40 million depository shares of preferred stock, series A, in the first quarter of 2019.

(e) Duke Energy issued 1 million shares of preferred stock, See Note 3 for additional discussion of the transaction.

(f) Amounts in Retained Earnings and AOCI primarily represent impacts to accumulated other comprehensive income due to implementation of a new accounting standard related to Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income.

See Notes to Consolidated Financial Statements

REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of Directors of Duke Energy Carolinas, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Carolinas, LLC and subsidiaries (the "Company") as of December 31, 2019 and 2018, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2019, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2019 and 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 20, 2020

We have served as the Company's auditor since 1947.

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FINANCIAL STATEMENTS

DUKE ENERGY CAROLINAS, LLC
CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2019	2018	2017
Operating Revenues	\$ 7,395	\$ 7,300	\$ 7,302
Operating Expenses			
Fuel used in electric generation and purchased power	1,804	1,821	1,822
Operation, maintenance and other	1,868	2,130	2,021
Depreciation and amortization	1,388	1,201	1,090
Property and other taxes	292	295	281
Impairment charges	17	192	—
Total operating expenses	5,369	5,639	5,214
(Losses) Gains on Sales of Other Assets and Other, net	—	(1)	1
Operating Income	2,026	1,660	2,089
Other Income and Expenses, net	151	153	199
Interest Expense	463	439	422
Income Before Income Taxes	1,714	1,374	1,866
Income Tax Expense	311	303	652
Net Income	\$ 1,403	\$ 1,071	\$ 1,214
Other Comprehensive Income, net of tax			
Reclassification into earnings from cash flow hedges	—	1	2
Other Comprehensive Income, net of tax	—	1	2
Comprehensive Income	\$ 1,403	\$ 1,072	\$ 1,216

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

**DUKE ENERGY CAROLINAS, LLC
CONSOLIDATED BALANCE SHEETS**

(in millions)	December 31,	
	2019	2018
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 18	\$ 33
Receivables (net of allowance for doubtful accounts of \$3 at 2019 and \$2 at 2018)	324	219
Receivables of VIEs (net of allowance for doubtful accounts of \$7 at 2019 and 2018)	642	699
Receivables from affiliated companies	114	182
Inventory	996	948
Regulatory assets	550	520
Other	21	72
Total current assets	2,665	2,673
Property, Plant and Equipment		
Cost	48,922	44,741
Accumulated depreciation and amortization	(16,525)	(15,496)
Net property, plant and equipment	32,397	29,245
Other Noncurrent Assets		
Regulatory assets	3,360	3,457
Nuclear decommissioning trust funds	4,359	3,558
Operating lease right-of-use assets, net	123	—
Other	1,149	1,027
Total other noncurrent assets	8,991	8,042
Total Assets	\$ 44,053	\$ 39,960
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 954	\$ 988
Accounts payable to affiliated companies	210	230
Notes payable to affiliated companies	29	439
Taxes accrued	46	171
Interest accrued	115	102
Current maturities of long-term debt	458	6
Asset retirement obligations	206	290
Regulatory liabilities	255	199
Other	611	571
Total current liabilities	2,884	2,996
Long-Term Debt	11,142	10,633
Long-Term Debt Payable to Affiliated Companies	300	300
Other Noncurrent Liabilities		
Deferred income taxes	3,921	3,689
Asset retirement obligations	5,528	3,659
Regulatory liabilities	6,423	5,999
Operating lease liabilities	102	—
Accrued pension and other post-retirement benefit costs	84	99
Investment tax credits	231	231
Other	627	671
Total other noncurrent liabilities	16,916	14,348
Commitments and Contingencies		
Equity		
Member's equity	12,818	11,689
Accumulated other comprehensive loss	(7)	(6)
Total equity	12,811	11,683
Total Liabilities and Equity	\$ 44,053	\$ 39,960

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

DUKE ENERGY CAROLINAS, LLC
CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2019	2018	2017
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 1,403	\$ 1,071	\$ 1,214
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization (including amortization of nuclear fuel)	1,671	1,487	1,409
Equity component of AFUDC	(42)	(73)	(106)
Losses (Gains) on sales of other assets	—	1	(1)
Impairment charges	17	192	—
Deferred income taxes	133	305	410
Accrued pension and other post-retirement benefit costs	(5)	4	(4)
Contributions to qualified pension plans	(7)	(46)	—
Payments for asset retirement obligations	(278)	(230)	(271)
Provision for rate refunds	36	182	—
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	(8)	2	9
Receivables	(21)	(86)	(9)
Receivables from affiliated companies	68	(87)	68
Inventory	(48)	25	78
Other current assets	(73)	(161)	7
Increase (decrease) in			
Accounts payable	(50)	168	23
Accounts payable to affiliated companies	(20)	21	(38)
Taxes accrued	(127)	(65)	86
Other current liabilities	127	89	(161)
Other assets	(31)	(179)	(49)
Other liabilities	(36)	(90)	(31)
Net cash provided by operating activities	2,709	2,530	2,634
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(2,714)	(2,706)	(2,524)
Purchases of debt and equity securities	(1,658)	(1,810)	(2,124)
Proceeds from sales and maturities of debt and equity securities	1,658	1,810	2,128
Notes receivable from affiliated companies	—	—	66
Other	(204)	(147)	(109)
Net cash used in investing activities	(2,918)	(2,853)	(2,563)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	886	1,983	569
Payments for the redemption of long-term debt	(6)	(1,205)	(116)
Notes payable to affiliated companies	(410)	335	104
Distributions to parent	(275)	(750)	(625)
Other	(1)	(23)	(1)
Net cash provided by (used in) financing activities	194	340	(69)
Net (decrease) increase in cash and cash equivalents	(15)	17	2
Cash and cash equivalents at beginning of period	33	16	14
Cash and cash equivalents at end of period	\$ 18	\$ 33	\$ 16
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 433	\$ 452	\$ 398
Cash paid for income taxes	122	89	193
Significant non-cash transactions:			
Accrued capital expenditures	347	302	315

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

DUKE ENERGY CAROLINAS, LLC
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

		Accumulated Other Comprehensive Loss		
(in millions)	Member's Equity		Net Gains (Losses) on Cash Flow Hedges	Total Equity
Balance at December 31, 2016	\$ 10,781	\$	(9)	\$ 10,772
Net income	1,214		—	1,214
Other comprehensive income	—		2	2
Distributions to parent	(625)		—	(625)
Other	(2)		—	(2)
Balance at December 31, 2017	\$ 11,368	\$	(7)	\$ 11,361
Net income	1,071		—	1,071
Other comprehensive income	—		1	1
Distributions to parent	(750)		—	(750)
Balance at December 31, 2018	\$ 11,689	\$	(6)	\$ 11,683
Net income	1,403		—	1,403
Distributions to parent	(275)		—	(275)
Other	1		(1)	—
Balance at December 31, 2019	\$ 12,818	\$	(7)	\$ 12,811

See Notes to Consolidated Financial Statements

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REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of Directors of Progress Energy, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Progress Energy, Inc. and subsidiaries (the "Company") as of December 31, 2019 and 2018, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2019, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2019 and 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 20, 2020

We have served as the Company's auditor since 1930.

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FINANCIAL STATEMENTS

PROGRESS ENERGY, INC.
CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2019	2018	2017
Operating Revenues	\$ 11,202	\$ 10,728	\$ 9,783
Operating Expenses			
Fuel used in electric generation and purchased power	4,024	3,976	3,417
Operation, maintenance and other	2,495	2,613	2,301
Depreciation and amortization	1,845	1,619	1,285
Property and other taxes	561	529	503
Impairment charges	(24)	87	156
Total operating expenses	8,901	8,824	7,662
Gains on Sales of Other Assets and Other, net	—	24	26
Operating Income	2,301	1,928	2,147
Other Income and Expenses, net	141	165	209
Interest Expense	862	842	824
Income Before Income Taxes	1,580	1,251	1,532
Income Tax Expense	253	218	264
Net Income	1,327	1,033	1,268
Less: Net Income Attributable to Noncontrolling Interests	—	6	10
Net Income Attributable to Parent	\$ 1,327	\$ 1,027	\$ 1,258
Net Income	\$ 1,327	\$ 1,033	\$ 1,268
Other Comprehensive Income, net of tax			
Pension and OPEB adjustments	2	5	4
Net unrealized gain on cash flow hedges	5	6	5
Unrealized gains (losses) on available-for-sale securities	1	(1)	4
Other Comprehensive Income, net of tax	8	10	13
Comprehensive Income	1,335	1,043	1,281
Less: Comprehensive Income Attributable to Noncontrolling Interests	—	6	10
Comprehensive Income Attributable to Parent	\$ 1,335	\$ 1,037	\$ 1,271

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

G-9, Item 30

Attachment 4 of 16
PROGRESS ENERGY, INC.

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CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2019	2018
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 48	\$ 67
Receivables (net of allowance for doubtful accounts of \$7 at 2019 and \$5 at 2018)	220	220
Receivables of VIEs (net of allowance for doubtful accounts of \$9 at 2019 and \$8 at 2018)	830	909
Receivables from affiliated companies	76	168
Notes receivable from affiliated companies	164	—
Inventory	1,423	1,459
Regulatory assets (includes \$52 at 2019 and 2018 related to VIEs)	946	1,137
Other (includes \$39 at 2019 and 2018 related to VIEs)	210	125
Total current assets	3,917	4,085
Property, Plant and Equipment		
Cost	55,070	50,260
Accumulated depreciation and amortization	(17,159)	(16,398)
Generation facilities to be retired, net	246	362
Net property, plant and equipment	38,157	34,224
Other Noncurrent Assets		
Goodwill	3,655	3,655
Regulatory assets (includes \$989 at 2019 and \$1,041 at 2018 related to VIEs)	6,346	6,564
Nuclear decommissioning trust funds	3,782	3,162
Operating lease right-of-use assets, net	788	—
Other	1,049	974
Total other noncurrent assets	15,620	14,355
Total Assets	\$ 57,694	\$ 52,664
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 1,104	\$ 1,172
Accounts payable to affiliated companies	310	360
Notes payable to affiliated companies	1,821	1,235
Taxes accrued	46	109
Interest accrued	228	246
Current maturities of long-term debt (includes \$54 at 2019 and \$53 at 2018 related to VIEs)	1,577	1,672
Asset retirement obligations	485	514
Regulatory liabilities	330	280
Other	902	821
Total current liabilities	6,803	6,409
Long-Term Debt (includes \$1,632 at 2019 and \$1,636 at 2018 related to VIEs)	17,907	17,089
Long-Term Debt Payable to Affiliated Companies	150	150
Other Noncurrent Liabilities		
Deferred income taxes	4,462	3,941
Asset retirement obligations	5,986	4,897
Regulatory liabilities	5,225	5,049
Operating lease liabilities	697	—
Accrued pension and other post-retirement benefit costs	488	521
Other	383	351
Total other noncurrent liabilities	17,241	14,759
Commitments and Contingencies		
Equity		
Common stock, \$0.01 par value, 100 shares authorized and outstanding at 2019 and 2018	—	—
Additional paid-in capital	9,143	9,143
Retained earnings	6,465	5,131
Accumulated other comprehensive loss	(18)	(20)
Total Progress Energy, Inc. stockholder's equity	15,590	14,254
Noncontrolling interests	3	3
Total equity	15,593	14,257
Total Liabilities and Equity	\$ 57,694	\$ 52,664

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

**PROGRESS ENERGY, INC.
CONSOLIDATED STATEMENTS OF CASH FLOWS**

(in millions)	Years Ended December 31,		
	2019	2018	2017
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 1,327	\$ 1,033	\$ 1,268
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion (including amortization of nuclear fuel)	2,207	1,987	1,516
Equity component of AFUDC	(66)	(104)	(92)
Gains on sales of other assets	—	(24)	(28)
Impairment charges	(24)	87	156
Deferred income taxes	433	358	703
Accrued pension and other post-retirement benefit costs	20	24	(28)
Contributions to qualified pension plans	(57)	(45)	—
Payments for asset retirement obligations	(412)	(230)	(248)
Provision for rate refunds	15	122	—
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	(34)	18	—
Receivables	47	(207)	(89)
Receivables from affiliated companies	81	(137)	71
Inventory	62	121	125
Other current assets	184	(12)	(397)
Increase (decrease) in			
Accounts payable	(4)	217	(260)
Accounts payable to affiliated companies	(50)	109	(97)
Taxes accrued	(74)	8	17
Other current liabilities	25	129	(166)
Other assets	(336)	(876)	(300)
Other liabilities	(135)	(34)	(98)
Net cash provided by operating activities	3,209	2,544	2,053
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(3,952)	(3,854)	(3,152)
Purchases of debt and equity securities	(1,511)	(1,753)	(1,806)
Proceeds from sales and maturities of debt and equity securities	1,504	1,769	1,824
Notes receivable from affiliated companies	(164)	240	(160)
Other	(190)	(162)	(59)
Net cash used in investing activities	(4,313)	(3,760)	(3,353)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	2,187	1,833	2,118
Payments for the redemption of long-term debt	(1,667)	(771)	(813)
Notes payable to affiliated companies	586	430	100
Dividends to parent	—	(250)	(124)
Other	12	(1)	(4)
Net cash provided by financing activities	1,118	1,241	1,277
Net increase (decrease) in cash, cash equivalents, and restricted cash	14	25	(23)
Cash, cash equivalents, and restricted cash at beginning of period	112	87	110
Cash, cash equivalents, and restricted cash at end of period	\$ 126	\$ 112	\$ 87
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 892	\$ 798	\$ 773
Cash received from income taxes	(79)	(348)	(146)
Significant non-cash transactions:			
Accrued capital expenditures	447	478	391
Equitization of certain notes payable to affiliates	—	—	1,047
Dividend to parent related to a legal entity restructuring	—	—	547

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

PROGRESS ENERGY, INC.
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Additional Paid-in Capital	Retained Earnings	Accumulated Other Comprehensive Income (Loss)					Total Progress Energy, Inc.	
			Net Gains (Losses) on Cash Flow Hedges	Net Unrealized Gains (Losses) on Available-for- Sale Securities	Pension and Adjustments	OPEB	Noncontrolling Interests	Equity	Equity
Balance at December 31, 2016	\$ 8,094	\$ 3,764	\$ (23)	\$ 1	\$ (16)	\$ (13)	\$ 11,807	\$ 11,807	\$ 11,807
Net income	—	1,258	—	—	—	—	10	1,258	1,268
Other comprehensive income	—	—	5	4	4	—	—	13	13
Dividends to parent ^(a)	—	(672)	—	—	—	—	—	(672)	(672)
Equitization of certain notes payable to affiliates	1,047	—	—	—	—	—	—	1,047	1,047
Other	2	—	—	—	—	—	—	2	2
Balance at December 31, 2017	\$ 9,143	\$ 4,350	\$ (18)	\$ 5	\$ (12)	\$ (3)	\$ 13,468	\$ 13,468	\$ 13,465
Net income	—	1,027	—	—	—	—	6	1,027	1,033
Other comprehensive income (loss)	—	—	6	(1)	5	—	—	10	10
Distributions to noncontrolling interests	—	—	—	—	—	—	(1)	—	(1)
Dividends to parent	—	(250)	—	—	—	—	—	(250)	(250)
Other ^(b)	—	4	—	(5)	—	—	1	(1)	—
Balance at December 31, 2018	\$ 9,143	\$ 5,131	\$ (12)	\$ (1)	\$ (7)	\$ 3	\$ 14,254	\$ 14,254	\$ 14,257
Net income	—	1,327	—	—	—	—	—	1,327	1,327
Other comprehensive income	—	—	5	1	2	—	—	8	8
Other ^(c)	—	7	(3)	(1)	(2)	—	—	1	1
Balance at December 31, 2019	\$ 9,143	\$ 6,465	\$ (10)	\$ (1)	\$ (7)	\$ 3	\$ 15,590	\$ 15,590	\$ 15,593

(a) Includes a \$547 million non-cash dividend related to a legal entity restructuring.

(b) Amounts in Retained Earnings and AOCI represent a cumulative-effect adjustment due to implementation of a new accounting standard related to Financial Instruments Classification and Measurement. See Note 1 for more information.

(c) Amounts in Retained Earnings and AOCI primarily represent impacts to accumulated other comprehensive income due to implementation of a new accounting standard related to Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income.

See Notes to Consolidated Financial Statements

REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of Directors of Duke Energy Progress, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Progress, LLC and subsidiaries (the "Company") as of December 31, 2019 and 2018, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2019, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2019 and 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 20, 2020

We have served as the Company's auditor since 1930.

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Step 13 2021

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FINANCIAL STATEMENTS

DUKE ENERGY PROGRESS, LLC
CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2019	2018	2017
Operating Revenues	\$ 5,957	\$ 5,699	\$ 5,129
Operating Expenses			
Fuel used in electric generation and purchased power	2,012	1,892	1,609
Operation, maintenance and other	1,446	1,578	1,439
Depreciation and amortization	1,143	991	725
Property and other taxes	176	155	156
Impairment charges	12	33	19
Total operating expenses	4,789	4,649	3,948
Gains on Sales of Other Assets and Other, net	—	9	4
Operating Income	1,168	1,059	1,185
Other Income and Expenses, net	100	87	115
Interest Expense	306	319	293
Income Before Income Taxes	962	827	1,007
Income Tax Expense	157	160	292
Net Income and Comprehensive Income	\$ 805	\$ 667	\$ 715

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

GC 1, Item 30

Attachment 4 of 16

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DUKE ENERGY PROGRESS, LLC

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2019	2018
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 22	\$ 23
Receivables (net of allowance for doubtful accounts of \$3 at 2019 and \$2 at 2018)	123	75
Receivables of VIEs (net of allowance for doubtful accounts of \$5 at 2019 and 2018)	489	547
Receivables from affiliated companies	52	23
Inventory	934	954
Regulatory assets	526	703
Other	60	62
Total current assets	2,206	2,387
Property, Plant and Equipment		
Cost	34,603	31,459
Accumulated depreciation and amortization	(11,915)	(11,423)
Generation facilities to be retired, net	246	362
Net property, plant and equipment	22,934	20,398
Other Noncurrent Assets		
Regulatory assets	4,152	4,111
Nuclear decommissioning trust funds	3,047	2,503
Operating lease right-of-use assets, net	387	—
Other	651	612
Total other noncurrent assets	8,237	7,226
Total Assets	\$ 33,377	\$ 30,011
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 629	\$ 660
Accounts payable to affiliated companies	203	278
Notes payable to affiliated companies	66	294
Taxes accrued	17	53
Interest accrued	110	116
Current maturities of long-term debt	1,006	603
Asset retirement obligations	485	509
Regulatory liabilities	236	178
Other	478	408
Total current liabilities	3,230	3,099
Long-Term Debt	7,902	7,451
Long-Term Debt Payable to Affiliated Companies	150	150
Other Noncurrent Liabilities		
Deferred income taxes	2,388	2,119
Asset retirement obligations	5,408	4,311
Regulatory liabilities	4,232	3,955
Operating lease liabilities	354	—
Accrued pension and other post-retirement benefit costs	238	237
Investment tax credits	137	142
Other	92	106
Total other noncurrent liabilities	12,849	10,870
Commitments and Contingencies		
Equity		
Member's Equity	9,246	8,441
Total Liabilities and Equity	\$ 33,377	\$ 30,011

See Notes to Consolidated Financial Statements

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Sep 13 2021

FINANCIAL STATEMENTS

Attachment 4 of 16

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DUKE ENERGY PROGRESS, LLC
CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2019	2018	2017
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 805	\$ 667	\$ 715
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization (including amortization of nuclear fuel)	1,329	1,183	936
Equity component of AFUDC	(60)	(57)	(47)
Gains on sales of other assets	—	(9)	(5)
Impairment charges	12	33	19
Deferred income taxes	197	236	384
Accrued pension and other post-retirement benefit costs	4	15	(20)
Contributions to qualified pension plans	(3)	(25)	—
Payments for asset retirement obligations	(390)	(195)	(192)
Provisions for rate refunds	12	122	—
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	(6)	5	(4)
Receivables	21	(107)	(58)
Receivables from affiliated companies	(29)	(20)	2
Inventory	20	63	59
Other current assets	101	(201)	(75)
Increase (decrease) in			
Accounts payable	32	219	(230)
Accounts payable to affiliated companies	(75)	99	(48)
Taxes accrued	(46)	(11)	(39)
Other current liabilities	68	46	(131)
Other assets	(198)	(447)	(53)
Other liabilities	29	12	(18)
Net cash provided by operating activities	1,823	1,628	1,195
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(2,108)	(2,220)	(1,715)
Purchases of debt and equity securities	(842)	(1,236)	(1,249)
Proceeds from sales and maturities of debt and equity securities	810	1,206	1,207
Notes receivable from affiliated companies	—	—	165
Other	(119)	(95)	(51)
Net cash used in investing activities	(2,259)	(2,345)	(1,643)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	1,269	845	812
Payments for the redemption of long-term debt	(605)	(3)	(470)
Notes payable to affiliated companies	(228)	54	240
Distributions to parent	—	(175)	(124)
Other	(1)	(1)	(1)
Net cash provided by financing activities	435	720	457
Net (decrease) increase in cash and cash equivalents	(1)	3	9
Cash and cash equivalents at beginning of period	23	20	11
Cash and cash equivalents at end of period	\$ 22	\$ 23	\$ 20
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 331	\$ 303	\$ 291
Cash (received from) paid for income taxes	(30)	(112)	59
Significant non-cash transactions:			
Accrued capital expenditures	175	220	191

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

DUKE ENERGY PROGRESS, LLC
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)		Member's Equity
Balance at December 31, 2016	\$	7,358
Net income		715
Distribution to parent		(124)
Balance at December 31, 2017	\$	7,949
Net income		667
Distribution to parent		(175)
Balance at December 31, 2018	\$	8,441
Net income		805
Balance at December 31, 2019	\$	9,246

See Notes to Consolidated Financial Statements

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REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of Directors of Duke Energy Florida, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Florida, LLC and subsidiaries (the "Company") as of December 31, 2019 and 2018, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2019, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2019 and 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 20, 2020

We have served as the Company's auditor since 2001.

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FINANCIAL STATEMENTS

**DUKE ENERGY FLORIDA, LLC
CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME**

(in millions)	Years Ended December 31,		
	2019	2018	2017
Operating Revenues	\$ 5,231	\$ 5,021	\$ 4,646
Operating Expenses			
Fuel used in electric generation and purchased power	2,012	2,085	1,808
Operation, maintenance and other	1,034	1,025	853
Depreciation and amortization	702	628	560
Property and other taxes	392	374	347
Impairment charges	(36)	54	138
Total operating expenses	4,104	4,166	3,706
Gains on Sales of Other Assets and Other, net	—	1	1
Operating Income	1,127	856	941
Other Income and Expenses, net	48	86	96
Interest Expense	328	287	279
Income Before Income Taxes	847	655	758
Income Tax Expense	155	101	46
Net Income	\$ 692	\$ 554	\$ 712
Other Comprehensive Income (Loss), net of tax			
Unrealized gains (losses) on available-for-sale securities	1	(1)	3
Other Comprehensive Income (Loss), net of tax	1	(1)	3
Comprehensive Income	\$ 693	\$ 553	\$ 715

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

**DUKE ENERGY FLORIDA, LLC
CONSOLIDATED BALANCE SHEETS**

(in millions)	December 31,	
	2019	2018
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 17	\$ 36
Receivables (net of allowance for doubtful accounts of \$3 at 2019 and 2018)	96	143
Receivables of VIEs (net of allowance for doubtful accounts of \$4 at 2019 and \$3 at 2018)	341	362
Receivables from affiliated companies	—	28
Notes receivable from affiliated companies	173	—
Inventory	489	504
Regulatory assets (includes \$52 at 2019 and 2018 related to VIEs)	419	434
Other (includes \$39 at 2019 and 2018 related to VIEs)	58	46
Total current assets	1,593	1,553
Property, Plant and Equipment		
Cost	20,457	18,792
Accumulated depreciation and amortization	(5,236)	(4,968)
Net property, plant and equipment	15,221	13,824
Other Noncurrent Assets		
Regulatory assets (includes \$989 at 2019 and \$1,041 at 2018 related to VIEs)	2,194	2,454
Nuclear decommissioning trust funds	734	659
Operating lease right-of-use assets, net	401	—
Other	311	311
Total other noncurrent assets	3,640	3,424
Total Assets	\$ 20,454	\$ 18,801
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 474	\$ 511
Accounts payable to affiliated companies	131	91
Notes payable to affiliated companies	—	108
Taxes accrued	43	74
Interest accrued	75	75
Current maturities of long-term debt (includes \$54 at 2019 and \$53 at 2018 related to VIEs)	571	270
Asset retirement obligations	—	5
Regulatory liabilities	94	102
Other	415	406
Total current liabilities	1,803	1,642
Long-Term Debt (includes \$1,307 at 2019 and \$1,336 at 2018 related to VIEs)	7,416	7,051
Other Noncurrent Liabilities		
Deferred income taxes	2,179	1,986
Asset retirement obligations	578	586
Regulatory liabilities	993	1,094
Operating lease liabilities	343	—
Accrued pension and other post-retirement benefit costs	218	254
Other	136	93
Total other noncurrent liabilities	4,447	4,013
Commitments and Contingencies		
Equity		
Member's equity	6,789	6,097
Accumulated other comprehensive loss	(1)	(2)
Total equity	6,788	6,095
Total Liabilities and Equity	\$ 20,454	\$ 18,801

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

**DUKE ENERGY FLORIDA, LLC
CONSOLIDATED STATEMENTS OF CASH FLOWS**

(in millions)	Years Ended December 31,		
	2019	2018	2017
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 692	\$ 554	\$ 712
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion	869	793	570
Equity component of AFUDC	(6)	(47)	(45)
Gains on sales of other assets	—	(1)	(1)
Impairment charges	(36)	54	138
Deferred income taxes	180	159	245
Accrued pension and other post-retirement benefit costs	11	5	(13)
Contributions to qualified pension plans	(53)	(20)	—
Payments for asset retirement obligations	(22)	(35)	(56)
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	(33)	7	5
Receivables	26	(100)	(38)
Receivables from affiliated companies	17	(26)	—
Inventory	42	58	66
Other current assets	156	59	(138)
Increase (decrease) in			
Accounts payable	(36)	(1)	(32)
Accounts payable to affiliated companies	40	17	(51)
Taxes accrued	(31)	40	1
Other current liabilities	(36)	82	(37)
Other assets	(135)	(428)	(229)
Other liabilities	(167)	(61)	(82)
Net cash provided by operating activities	1,478	1,109	1,015
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(1,844)	(1,634)	(1,437)
Purchases of debt and equity securities	(669)	(517)	(557)
Proceeds from sales and maturities of debt and equity securities	695	563	617
Notes receivable from affiliated companies	(173)	313	(313)
Other	(67)	(65)	(7)
Net cash used in investing activities	(2,058)	(1,340)	(1,697)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	918	988	1,306
Payments for the redemption of long-term debt	(262)	(769)	(342)
Notes payable to affiliated companies	(108)	108	(297)
Distribution to parent	—	(75)	—
Other	13	1	(1)
Net cash provided by financing activities	561	253	666
Net (decrease) increase in cash, cash equivalents, and restricted cash	(19)	22	(16)
Cash, cash equivalents, and restricted cash at beginning of period	75	53	69
Cash, cash equivalents, and restricted cash at end of period	\$ 56	\$ 75	\$ 53
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 332	\$ 270	\$ 274
Cash paid for (received from) income taxes	1	(120)	(197)
Significant non-cash transactions:			
Accrued capital expenditures	272	258	199

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

DUKE ENERGY FLORIDA, LLC
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

			Accumulated Other Comprehensive Income (Loss)	
			Net Unrealized Gains (Losses) on Available-for- Sale Securities	Total Equity
(in millions)	Member's Equity			
Balance at December 31, 2016	\$ 4,899	\$	1	\$ 4,900
Net income	712		—	712
Other comprehensive income	—		3	3
Other	3		—	3
Balance at December 31, 2017	\$ 5,614	\$	4	\$ 5,618
Net income	554		—	554
Other comprehensive loss	—		(1)	(1)
Distribution to parent	(75)		—	(75)
Other ^(a)	4		(5)	(1)
Balance at December 31, 2018	\$ 6,097	\$	(2)	\$ 6,095
Net income	692		—	692
Other comprehensive income	—		1	1
Balance at December 31, 2019	\$ 6,789	\$	(1)	\$ 6,788

(a) Amounts represent a cumulative-effect adjustment due to implementation of a new accounting standard related to Financial Instruments Classification and Measurement. See Note 1 for more information.

See Notes to Consolidated Financial Statements

REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of Directors of Duke Energy Ohio, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Ohio, Inc. and subsidiaries (the "Company") as of December 31, 2019 and 2018, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2019, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2019 and 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 20, 2020

We have served as the Company's auditor since 2002.

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FINANCIAL STATEMENTS

DUKE ENERGY OHIO, INC.

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2019	2018	2017
Operating Revenues			
Regulated electric	\$ 1,456	\$ 1,450	\$ 1,373
Regulated natural gas	484	506	508
Nonregulated electric and other	—	1	42
Total operating revenues	1,940	1,957	1,923
Operating Expenses			
Fuel used in electric generation and purchased power – regulated	388	412	369
Fuel used in electric generation and purchased power – nonregulated	—	—	58
Cost of natural gas	95	113	107
Operation, maintenance and other	520	480	530
Depreciation and amortization	265	268	261
Property and other taxes	308	290	278
Impairment charges	—	—	1
Total operating expenses	1,576	1,563	1,604
(Losses) Gains on Sales of Other Assets and Other, net	—	(106)	1
Operating Income	364	288	320
Other Income and Expenses, net	24	23	23
Interest Expense	109	92	91
Income From Continuing Operations Before Income Taxes	279	219	252
Income Tax Expense From Continuing Operations	40	43	59
Income From Continuing Operations	239	176	193
Loss From Discontinued Operations, net of tax	(1)	—	(1)
Net Income and Comprehensive Income	\$ 238	\$ 176	\$ 192

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

**DUKE ENERGY OHIO, INC.
CONSOLIDATED BALANCE SHEETS**

(in millions)	December 31,	
	2019	2018
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 17	\$ 21
Receivables (net of allowance for doubtful accounts of \$4 at 2019 and \$2 at 2018)	84	102
Receivables from affiliated companies	92	114
Inventory	135	126
Regulatory assets	49	33
Other	21	24
Total current assets	398	420
Property, Plant and Equipment		
Cost	10,241	9,360
Accumulated depreciation and amortization	(2,843)	(2,717)
Net property, plant and equipment	7,398	6,643
Other Noncurrent Assets		
Goodwill	920	920
Regulatory assets	549	531
Operating lease right-of-use assets, net	21	—
Other	52	41
Total other noncurrent assets	1,542	1,492
Total Assets	\$ 9,338	\$ 8,555
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 288	\$ 316
Accounts payable to affiliated companies	68	78
Notes payable to affiliated companies	312	274
Taxes accrued	219	202
Interest accrued	30	22
Current maturities of long-term debt	—	551
Asset retirement obligations	1	6
Regulatory liabilities	64	57
Other	75	74
Total current liabilities	1,057	1,580
Long-Term Debt	2,594	1,589
Long-Term Debt Payable to Affiliated Companies	25	25
Other Noncurrent Liabilities		
Deferred income taxes	922	817
Asset retirement obligations	79	87
Regulatory liabilities	763	840
Operating lease liabilities	21	—
Accrued pension and other post-retirement benefit costs	100	79
Other	94	93
Total other noncurrent liabilities	1,979	1,916
Commitments and Contingencies		
Equity		
Common stock, \$8.50 par value, 120 million shares authorized; 90 million shares outstanding at 2019 and 2018	762	762
Additional paid-in capital	2,776	2,776
Retained earnings (Accumulated deficit)	145	(93)
Total equity	3,683	3,445
Total Liabilities and Equity	\$ 9,338	\$ 8,555

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

DUKE ENERGY OHIO, INC.
CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2019	2018	2017
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 238	\$ 176	\$ 192
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion	269	271	265
Equity component of AFUDC	(13)	(11)	(11)
Losses (Gains) on sales of other assets	—	106	(1)
Impairment charges	—	—	1
Deferred income taxes	81	25	90
Accrued pension and other post-retirement benefit costs	2	3	2
Contributions to qualified pension plans	(2)	—	(4)
Payments for asset retirement obligations	(8)	(3)	(7)
Provision for rate refunds	7	24	—
(Increase) decrease in			
Receivables	20	(33)	2
Receivables from affiliated companies	22	19	(4)
Inventory	(9)	7	6
Other current assets	(5)	16	(22)
Increase (decrease) in			
Accounts payable	(17)	(19)	12
Accounts payable to affiliated companies	(10)	16	(1)
Taxes accrued	17	12	11
Other current liabilities	1	14	(19)
Other assets	(22)	(26)	(28)
Other liabilities	(45)	(27)	(5)
Net cash provided by operating activities	526	570	479
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(952)	(827)	(686)
Notes receivable from affiliated companies	—	14	80
Other	(68)	(89)	(41)
Net cash used in investing activities	(1,020)	(902)	(647)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	1,003	99	182
Payments for the redemption of long-term debt	(551)	(3)	(2)
Notes payable to affiliated companies	38	245	13
Dividends to parent	—	—	(25)
Other	—	—	(1)
Net cash provided by financing activities	490	341	167
Net (decrease) increase in cash and cash equivalents	(4)	9	(1)
Cash and cash equivalents at beginning of period	21	12	13
Cash and cash equivalents at end of period	\$ 17	\$ 21	\$ 12
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 97	\$ 87	\$ 85
Cash received from income taxes	(37)	(6)	(8)
Significant non-cash transactions:			
Accrued capital expenditures	109	95	82
Non-cash equity contribution from parent	—	106	—

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

DUKE ENERGY OHIO, INC.

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Common Stock	Additional Paid-in Capital	Retained Earnings (Deficit)	Total Equity
Balance at December 31, 2016	\$ 762	\$ 2,695	\$ (461)	\$ 2,996
Net income	—	—	192	192
Dividends to parent	—	(25)	—	(25)
Balance at December 31, 2017	\$ 762	\$ 2,670	\$ (269)	\$ 3,163
Net income	—	—	176	176
Contribution from parent	—	106	—	106
Balance at December 31, 2018	\$ 762	\$ 2,776	\$ (93)	\$ 3,445
Net income	—	—	238	238
Balance at December 31, 2019	\$ 762	\$ 2,776	\$ 145	\$ 3,683

See Notes to Consolidated Financial Statements

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REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of Directors of Duke Energy Indiana, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Indiana, LLC and subsidiaries (the "Company") as of December 31, 2019 and 2018, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2019, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2019 and 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 20, 2020

We have served as the Company's auditor since 2002.

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FINANCIAL STATEMENTS

**DUKE ENERGY INDIANA, LLC
CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME**

(in millions)	Years Ended December 31,		
	2019	2018	2017
Operating Revenues	\$ 3,004	\$ 3,059	\$ 3,047
Operating Expenses			
Fuel used in electric generation and purchased power	935	1,000	966
Operation, maintenance and other	790	788	743
Depreciation and amortization	525	520	458
Property and other taxes	69	78	76
Impairment charges	—	30	18
Total operating expenses	2,319	2,416	2,261
Operating Income	685	643	786
Other Income and Expenses, net	41	45	47
Interest Expense	156	167	178
Income Before Income Taxes	570	521	655
Income Tax Expense	134	128	301
Net Income and Comprehensive Income	\$ 436	\$ 393	\$ 354

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

DUKE ENERGY INDIANA, LLC
CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2019	2018
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 25	\$ 24
Receivables (net of allowance for doubtful accounts of \$3 at 2019 and \$2 at 2018)	60	52
Receivables from affiliated companies	79	122
Inventory	517	422
Regulatory assets	90	175
Other	60	35
Total current assets	831	830
Property, Plant and Equipment		
Cost	16,305	15,443
Accumulated depreciation and amortization	(5,233)	(4,914)
Net property, plant and equipment	11,072	10,529
Other Noncurrent Assets		
Regulatory assets	1,082	982
Operating lease right-of-use assets, net	57	—
Other	234	194
Total other noncurrent assets	1,373	1,176
Total Assets	\$ 13,276	\$ 12,535
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 201	\$ 200
Accounts payable to affiliated companies	87	83
Notes payable to affiliated companies	30	167
Taxes accrued	49	43
Interest accrued	58	58
Current maturities of long-term debt	503	63
Asset retirement obligations	189	109
Regulatory liabilities	55	25
Other	112	107
Total current liabilities	1,284	855
Long-Term Debt	3,404	3,569
Long-Term Debt Payable to Affiliated Companies	150	150
Other Noncurrent Liabilities		
Deferred income taxes	1,150	1,009
Asset retirement obligations	643	613
Regulatory liabilities	1,685	1,722
Operating lease liabilities	55	—
Accrued pension and other post-retirement benefit costs	148	115
Investment tax credits	164	147
Other	18	16
Total other noncurrent liabilities	3,863	3,622
Commitments and Contingencies		
Equity		
Member's Equity	4,575	4,339
Total Liabilities and Equity	\$ 13,276	\$ 12,535

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

DUKE ENERGY INDIANA, LLC
CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2019	2018	2017
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 436	\$ 393	\$ 354
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization, and accretion	531	524	462
Equity component of AFUDC	(18)	(32)	(28)
Impairment charges	—	30	18
Deferred income taxes	156	95	152
Accrued pension and other post-retirement benefit costs	6	7	2
Contributions to qualified pension plans	(2)	(8)	—
Payments for asset retirement obligations	(48)	(69)	(45)
Provision for rate refunds	—	53	—
(Increase) decrease in			
Receivables	(8)	7	59
Receivables from affiliated companies	41	3	(11)
Inventory	(95)	28	54
Other current assets	76	(25)	28
Increase (decrease) in			
Accounts payable	(10)	37	(86)
Accounts payable to affiliated companies	4	5	4
Taxes accrued	(25)	(52)	64
Other current liabilities	15	14	(10)
Other assets	(71)	29	(28)
Other liabilities	9	(33)	(20)
Net cash provided by operating activities	997	1,006	969
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(876)	(832)	(840)
Purchases of debt and equity securities	(26)	(48)	(20)
Proceeds from sales and maturities of debt and equity securities	20	44	7
Notes receivable from affiliated companies	—	—	86
Other	(49)	18	(65)
Net cash used in investing activities	(931)	(818)	(832)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	485	—	—
Payments for the redemption of long-term debt	(213)	(3)	(5)
Notes payable to affiliated companies	(137)	6	161
Distributions to parent	(200)	(175)	(300)
Other	—	(1)	(1)
Net cash used in financing activities	(65)	(173)	(145)
Net increase (decrease) in cash and cash equivalents	1	15	(8)
Cash and cash equivalents at beginning of period	24	9	17
Cash and cash equivalents at end of period	\$ 25	\$ 24	\$ 9
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 150	\$ 162	\$ 179
Cash (received from) paid for income taxes	(6)	75	117
Significant non-cash transactions:			
Accrued capital expenditures	102	88	125

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

DUKE ENERGY INDIANA, LLC
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Member's Equity
Balance at December 31, 2016	\$ 4,067
Net income	354
Distributions to parent	(300)
Balance at December 31, 2017	\$ 4,121
Net income	393
Distributions to parent	(175)
Balance at December 31, 2018	\$ 4,339
Net income	436
Distributions to parent	(200)
Balance at December 31, 2019	\$ 4,575

See Notes to Consolidated Financial Statements

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REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of Directors of Piedmont Natural Gas Company, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Piedmont Natural Gas Company, Inc. and subsidiaries (the "Company") as of December 31, 2019 and 2018, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2019, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2019 and 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 20, 2020

We have served as the Company's auditor since 1951.

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FINANCIAL STATEMENTS

PIEDMONT NATURAL GAS COMPANY, INC.

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2019	2018	2017
Operating Revenues			
Regulated natural gas	\$ 1,369	\$ 1,365	\$ 1,319
Nonregulated natural gas and other	12	10	9
Total operating revenues	1,381	1,375	1,328
Operating Expenses			
Cost of natural gas	532	584	524
Operation, maintenance and other	328	357	304
Depreciation and amortization	172	159	148
Property and other taxes	45	49	48
Impairment charges	—	—	7
Total operating expenses	1,077	1,149	1,031
Operating Income	304	226	297
Equity in earnings (losses) of unconsolidated affiliates	8	7	(6)
Other income and expense, net	20	14	(11)
Total other income and expenses	28	21	(17)
Interest Expense	87	81	79
Income Before Income Taxes	245	166	201
Income Tax Expense	43	37	62
Net Income and Comprehensive Income	\$ 202	\$ 129	\$ 139

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

**PIEDMONT NATURAL GAS COMPANY, INC.
CONSOLIDATED BALANCE SHEETS**

(in millions)	December 31,	
	2019	2018
ASSETS		
Current Assets		
Receivables (net of allowance for doubtful accounts of \$6 at 2019 and \$2 at 2018)	\$ 241	\$ 266
Receivables from affiliated companies	10	22
Inventory	72	70
Regulatory assets	73	54
Other	28	19
Total current assets	424	431
Property, Plant and Equipment		
Cost	8,446	7,486
Accumulated depreciation and amortization	(1,681)	(1,575)
Net property, plant and equipment	6,765	5,911
Other Noncurrent Assets		
Goodwill	49	49
Regulatory assets	290	303
Operating lease right-of-use assets, net	24	—
Investments in equity method unconsolidated affiliates	83	64
Other	121	52
Total other noncurrent assets	567	468
Total Assets	\$ 7,756	\$ 6,810
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 215	\$ 203
Accounts payable to affiliated companies	3	38
Notes payable to affiliated companies	476	198
Taxes accrued	24	84
Interest accrued	33	31
Current maturities of long-term debt	—	350
Regulatory liabilities	81	37
Other	67	58
Total current liabilities	899	999
Long-Term Debt		
	2,384	1,788
Other Noncurrent Liabilities		
Deferred income taxes	708	551
Asset retirement obligations	17	19
Regulatory liabilities	1,131	1,181
Operating lease liabilities	23	—
Accrued pension and other post-retirement benefit costs	3	4
Other	148	177
Total other noncurrent liabilities	2,030	1,932
Commitments and Contingencies		
Equity		
Common stock, no par value: 100 shares authorized and outstanding at 2019 and 2018	1,310	1,160
Retained earnings	1,133	931
Total equity	2,443	2,091
Total Liabilities and Equity	\$ 7,756	\$ 6,810

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

PIEDMONT NATURAL GAS COMPANY, INC.
CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2019	2018	2017
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 202	\$ 129	\$ 139
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization	174	161	151
Impairment charges	—	—	7
Deferred income taxes	136	(31)	154
Equity in (earnings) losses from unconsolidated affiliates	(8)	(7)	6
Accrued pension and other post-retirement benefit costs	(9)	(4)	23
Contributions to qualified pension plans	(1)	—	(11)
Provision for rate refunds	2	43	—
(Increase) decrease in			
Receivables	28	7	(40)
Receivables from affiliated companies	12	(15)	—
Inventory	(2)	(4)	—
Other current assets	(25)	71	(20)
Increase (decrease) in			
Accounts payable	(7)	15	(13)
Accounts payable to affiliated companies	(35)	25	5
Taxes accrued	(60)	65	(48)
Other current liabilities	1	21	(9)
Other assets	9	6	7
Other liabilities	(8)	(4)	(2)
Net cash provided by operating activities	409	478	349
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(1,053)	(721)	(585)
Contributions to equity method investments	(16)	—	(12)
Other	(14)	(10)	(6)
Net cash used in investing activities	(1,083)	(731)	(603)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	596	100	250
Payments for the redemption of long-term debt	(350)	—	(35)
Notes payable and commercial paper	—	—	(330)
Notes payable to affiliated companies	278	(166)	364
Capital contribution from parent	150	300	—
Other	—	—	(1)
Net cash provided by financing activities	674	234	248
Net decrease in cash and cash equivalents	—	(19)	(6)
Cash and cash equivalents at beginning of period	—	19	25
Cash and cash equivalents at end of period	\$ —	\$ —	\$ 19
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 84	\$ 79	\$ 78
Cash received from income taxes	(31)	(16)	(12)
Significant non-cash transactions:			
Accrued capital expenditures	109	96	34
Transfer of ownership interest of certain equity method investees to parent	—	—	149

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

PIEDMONT NATURAL GAS COMPANY, INC.
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Common Stock	Retained Earnings	Total Equity
Balance at December 31, 2016	\$ 860	\$ 812	\$ 1,672
Net income	—	139	139
Transfer of ownership interest of certain equity method investees to parent	—	(149)	(149)
Balance at December 31, 2017	\$ 860	\$ 802	\$ 1,662
Net income	—	129	129
Contribution from parent	300	—	300
Balance at December 31, 2018	\$ 1,160	\$ 931	\$ 2,091
Net income	—	202	202
Contribution from parent	150	—	150
Balance at December 31, 2019	\$ 1,310	\$ 1,133	\$ 2,443

See Notes to Consolidated Financial Statements

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SEP 13 2021

Index to Combined Notes To Consolidated Financial Statements

The notes to the consolidated financial statements are a combined presentation. The following table indicates the registrants to which the notes apply.

Registrant	Applicable Notes																										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Duke Energy	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Duke Energy Carolinas	*		*	*	*	*			*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
Progress Energy	*		*	*	*	*	*			*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
Duke Energy Progress	*		*	*	*	*	*			*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
Duke Energy Florida	*		*	*	*	*	*			*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
Duke Energy Ohio	*		*	*	*	*	*			*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
Duke Energy Indiana	*		*	*	*	*	*		*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
Piedmont	*	*	*	*	*	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Tables within the notes may not sum across due to (i) Progress Energy's consolidation of Duke Energy Progress, Duke Energy Florida and other subsidiaries that are not registrants and (ii) subsidiaries that are not registrants but included in the consolidated Duke Energy balances.

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Nature of Operations and Basis of Consolidation

Duke Energy is an energy company headquartered in Charlotte, North Carolina, subject to regulation by the FERC and other regulatory agencies listed below. Duke Energy operates in the U.S. primarily through its direct and indirect subsidiaries. Certain Duke Energy subsidiaries are also subsidiary registrants, including Duke Energy Carolinas; Progress Energy; Duke Energy Progress; Duke Energy Florida; Duke Energy Ohio; Duke Energy Indiana and Piedmont. When discussing Duke Energy's consolidated financial information, it necessarily includes the results of its separate Subsidiary Registrants, which along with Duke Energy, are collectively referred to as the Duke Energy Registrants.

The information in these combined notes relates to each of the Duke Energy Registrants as noted in the Index to Combined Notes to Consolidated Financial Statements. However, none of the Subsidiary Registrants make any representation as to information related solely to Duke Energy or the Subsidiary Registrants of Duke Energy other than itself.

These Consolidated Financial Statements include, after eliminating intercompany transactions and balances, the accounts of the Duke Energy Registrants and subsidiaries or VIEs where the respective Duke Energy Registrants have control. See Note 18 for additional information on VIEs. These Consolidated Financial Statements also reflect the Duke Energy Registrants' proportionate share of certain jointly owned generation and transmission facilities. See Note 9 for additional information on joint ownership. Substantially all of the Subsidiary Registrants' operations qualify for regulatory accounting.

Duke Energy Carolinas is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Carolinas is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Progress Energy is a public utility holding company, which conducts operations through its wholly owned subsidiaries, Duke Energy Progress and Duke Energy Florida. Progress Energy is subject to regulation by FERC and other regulatory agencies listed below.

Duke Energy Progress is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Progress is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Duke Energy Florida is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Florida. Duke Energy Florida is subject to the regulatory provisions of the FPSC, NRC and FERC.

Duke Energy Ohio is a regulated public utility primarily engaged in the transmission and distribution of electricity in portions of Ohio and Kentucky, the generation and sale of electricity in portions of Kentucky and the transportation and sale of natural gas in portions of Ohio and Kentucky. Duke Energy Ohio conducts competitive auctions for retail electricity supply in Ohio whereby the energy price is recovered from retail customers and recorded in Operating Revenues on the Consolidated Statements of Operations and Comprehensive Income. Operations in Kentucky are conducted through its wholly owned subsidiary, Duke Energy Kentucky. References herein to Duke Energy Ohio collectively include Duke Energy Ohio and its subsidiaries, unless otherwise noted. Duke Energy Ohio is subject to the regulatory provisions of the PUCO, KPSC and FERC.

Duke Energy Indiana is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Indiana. Duke Energy Indiana is subject to the regulatory provisions of the IURC and FERC.

Piedmont is a regulated public utility primarily engaged in the distribution of natural gas in portions of North Carolina, South Carolina and Tennessee. Piedmont is subject to the regulatory provisions of the NCUC, PSCSC, TPUC and FERC.

Certain prior year amounts have been reclassified to conform to the current year presentation.

FINANCIAL STATEMENTS

SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Other Current Assets and Liabilities

The following table provides a description of amounts included in Other within Current Assets or Current Liabilities that exceed 5% of total Current Assets or Current Liabilities on the Duke Energy Registrants' Consolidated Balance Sheets at either December 31, 2019, or 2018.

(in millions)	Location	December 31,	
		2019	2018
Duke Energy			
Taxes receivable	Current Assets	\$ 357	\$ 729
Accrued compensation	Current Liabilities	862	793
Duke Energy Carolinas			
Accrued compensation	Current Liabilities	\$ 271	\$ 251
Other accrued liabilities	Current Liabilities	147	55
Progress Energy			
Customer deposits	Current Liabilities	\$ 354	\$ 345
Duke Energy Florida			
Customer deposits	Current Liabilities	\$ 209	\$ 208
Other accrued liabilities	Current Liabilities	89	85
Duke Energy Indiana			
Income taxes receivable	Current Assets	\$ 44	\$ 9
Customer deposits	Current Liabilities	49	47

Discontinued Operations

Duke Energy has elected to present cash flows of discontinued operations combined with cash flows of continuing operations. Unless otherwise noted, the notes to these consolidated financial statements exclude amounts related to discontinued operations for all periods presented. See Note 2 for additional information.

Amounts Attributable to Controlling Interests

For the years ended December 31, 2019, 2018 and 2017, the Income (Loss) From Discontinued Operations, net of tax on Duke Energy's Consolidated Statements of Operations is entirely attributable to controlling interest.

Noncontrolling Interest

Duke Energy maintains a controlling financial interest in certain less-than wholly owned non-regulated subsidiaries. As a result, Duke Energy consolidates these subsidiaries and presents the third-party investors' portion of Duke Energy's net income (loss), net assets and comprehensive income (loss) as noncontrolling interest. Noncontrolling interest is included as a component of equity on the Consolidated Balance Sheet.

Several operating agreements of Duke Energy's subsidiaries with noncontrolling interest are subject to allocations of tax attributes and cash flows in accordance with contractual agreements that vary throughout the lives of the subsidiaries. Therefore, Duke Energy and the other investors' (the owners) interests in the subsidiaries are not fixed, and the subsidiaries apply the HLBV method in allocating income or loss and other comprehensive income or loss (all measured on a pretax basis) to the owners. The HLBV method measures the amounts that each owner would hypothetically claim at each balance sheet reporting date, including tax benefits realized by the owners, upon a hypothetical liquidation of the subsidiary at the net book value of its underlying assets. The change in the amount that each owner would hypothetically receive at the reporting date compared to the amount it would have received on the previous reporting date represents the amount of income or loss allocated to each owner for the reporting period. During 2019, Duke Energy received \$428 million for the sale of noncontrolling interests to tax equity members subject to the HLBV method for projects totaling 718 MW in nameplate capacity. Duke Energy allocated approximately \$165 million of losses to noncontrolling tax equity members utilizing the HLBV method for the year ended December 31, 2019.

Other operating agreements of Duke Energy's subsidiaries with noncontrolling interest allocate profit and loss based on their pro rata shares of the ownership interest in the respective subsidiary. Therefore, Duke Energy allocates net income or loss and other comprehensive income or loss of these subsidiaries to the owners based on their pro rata shares.

During the third quarter of 2019, Duke Energy completed a sale of minority interest in a portion of certain renewable assets to John Hancock. John Hancock's ownership interest in the assets represents a noncontrolling interest. See Note 2 for additional information on the sale.

Significant Accounting Policies

Use of Estimates

In preparing financial statements that conform to GAAP, the Duke Energy Registrants must make estimates and assumptions that affect the reported amounts of assets and liabilities, the reported amounts of revenues and expenses and the disclosure of contingent assets and liabilities at the date of the financial statements. Actual results could differ from those estimates.

Regulatory Accounting

The majority of the Duke Energy Registrants' operations are subject to price regulation for the sale of electricity and natural gas by state utility commissions or FERC. When prices are set on the basis of specific costs of the regulated operations and an effective franchise is in place such that sufficient natural gas or electric services can be sold to recover those costs, the Duke Energy Registrants apply regulatory accounting. Regulatory accounting changes the timing of the recognition of costs or revenues relative to a company that does not apply regulatory accounting. As a result, regulatory assets and regulatory liabilities are recognized on the Consolidated Balance Sheets. Regulatory assets and liabilities are amortized consistent with the treatment of the related cost in the ratemaking process. See Note 4 for further information.

Regulatory accounting rules also require recognition of a disallowance (also called "impairment") loss if it becomes probable that part of the cost of a plant under construction (or a recently completed plant or an abandoned plant) will be disallowed for ratemaking purposes and a reasonable estimate of the amount of the disallowance can be made. For example, if a cost cap is set for a plant still under construction, the amount of the disallowance is a result of a judgment as to the ultimate cost of the plant. These disallowances can require judgments on allowed future rate recovery.

When it becomes probable that regulated generation, transmission or distribution assets will be abandoned, the cost of the asset is removed from plant in service. The value that may be retained as a regulatory asset on the balance sheet for the abandoned property is dependent upon amounts that may be recovered through regulated rates, including any return. As such, an impairment charge could be partially or fully offset by the establishment of a regulatory asset if rate recovery is probable. The impairment charge for a disallowance of costs for regulated plants under construction, recently completed or abandoned is based on discounted cash flows.

The Duke Energy Registrants utilize cost-tracking mechanisms, commonly referred to as fuel adjustment clauses or PGA clauses. These clauses allow for the recovery of fuel and fuel-related costs, portions of purchased power, natural gas costs and hedging costs through surcharges on customer rates. The difference between the costs incurred and the surcharge revenues is recorded either as an adjustment to Operating Revenues, Operating Expenses – Fuel used in electric generation or Operating Expenses – Cost of natural gas on the Consolidated Statements of Operations, with an off-setting impact on regulatory assets or liabilities.

Cash, Cash Equivalents and Restricted Cash

All highly liquid investments with maturities of three months or less at the date of acquisition are considered cash equivalents. Duke Energy, Progress Energy and Duke Energy Florida have restricted cash balances related primarily to collateral assets, escrow deposits and VIEs. See Note 18 for additional information. Restricted cash amounts are included in Other within Current Assets and Other Noncurrent Assets on the Consolidated Balance Sheets. The following table presents the components of cash, cash equivalents and restricted cash included in the Consolidated Balance Sheets.

	December 31, 2019			December 31, 2018		
	Duke Energy	Progress Energy	Duke Energy Florida	Duke Energy	Progress Energy	Duke Energy Florida
Current Assets						
Cash and cash equivalents	\$ 311	\$ 48	\$ 17	\$ 442	\$ 67	\$ 36
Other	222	39	39	141	39	39
Other Noncurrent Assets						
Other	40	39	—	8	6	—
Total cash, cash equivalents and restricted cash	\$ 573	\$ 126	\$ 56	\$ 591	\$ 112	\$ 75

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FINANCIAL STATEMENTS

SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Inventory

Inventory related to regulated operations is valued at historical cost. Inventory related to nonregulated operations is valued at the lower of cost or market. Inventory is charged to expense or capitalized to property, plant and equipment when issued, primarily using the average cost method. Excess or obsolete inventory is written-down to the lower of cost or net realizable value. Once inventory has been written-down, it creates a new cost basis for the inventory that is not subsequently written-up. Provisions for inventory write-offs were not material at December 31, 2019, and 2018, respectively. The components of inventory are presented in the tables below.

(in millions)	December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Materials and supplies	\$ 2,297	\$ 768	\$ 1,038	\$ 686	\$ 351	\$ 79	\$ 318	\$ 5
Coal	586	187	186	138	48	15	198	—
Natural gas, oil and other	349	41	199	110	90	41	1	67
Total inventory	\$ 3,232	\$ 996	\$ 1,423	\$ 934	\$ 489	\$ 135	\$ 517	\$ 72

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Materials and supplies	\$ 2,238	\$ 731	\$ 1,049	\$ 734	\$ 315	\$ 84	\$ 312	\$ 2
Coal	491	175	192	106	86	14	109	—
Natural gas, oil and other	355	42	218	114	103	28	1	68
Total inventory	\$ 3,084	\$ 948	\$ 1,459	\$ 954	\$ 504	\$ 126	\$ 422	\$ 70

Investments in Debt and Equity Securities

The Duke Energy Registrants classify investments in equity securities as FV-NI and investments in debt securities as AFS. Both categories are recorded at fair value on the Consolidated Balance Sheets. Realized and unrealized gains and losses on securities classified as FV-NI are reported through net income. Unrealized gains and losses for debt securities classified as AFS are included in AOCI until realized, except OTTIs that are included in earnings immediately. At the time gains and losses for debt securities are realized, they are reported through net income. For certain investments of regulated operations, such as substantially all of the NDTF, realized and unrealized gains and losses (including any OTTIs) on debt securities are recorded as a regulatory asset or liability. The credit loss portion of debt securities of nonregulated operations are included in earnings. Investments in debt and equity securities are classified as either current or noncurrent based on management's intent and ability to sell these securities, taking into consideration current market liquidity. See Note 16 for further information.

Goodwill

Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont perform annual goodwill impairment tests as of August 31 each year at the reporting unit level, which is determined to be a business segment or one level below. Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont update these tests between annual tests if events or circumstances occur that would more likely than not reduce the fair value of a reporting unit below its carrying value. See Note 12 for further information.

Intangible Assets

Intangible assets are included in Other in Other Noncurrent Assets on the Consolidated Balance Sheets. Generally, intangible assets are amortized using an amortization method that reflects the pattern in which the economic benefits of the intangible asset are consumed or on a straight-line basis if that pattern is not readily determinable. Amortization of intangibles is reflected in Depreciation and amortization on the Consolidated Statements of Operations. Intangible assets are subject to impairment testing and if impaired, the carrying value is accordingly reduced.

Emission allowances permit the holder of the allowance to emit certain gaseous byproducts of fossil fuel combustion, including SO₂ and NO_x. Allowances are issued by the EPA at zero cost and may also be bought and sold via third-party transactions. Allowances allocated to or acquired by the Duke Energy Registrants are held primarily for consumption. Carrying amounts for emission allowances are based on the cost to acquire the allowances. Emission allowances are expensed to Fuel used in electric generation and purchased power on the Consolidated Statements of Operations.

RECs are used to measure compliance with renewable energy standards and are held primarily for consumption. See Note 12 for further information.

Long-Lived Asset Impairments

The Duke Energy Registrants evaluate long-lived assets, excluding goodwill, for impairment when circumstances indicate the carrying value of those assets may not be recoverable. An impairment exists when a long-lived asset's carrying value exceeds the estimated undiscounted cash flows expected to result from the use and eventual disposition of the asset. The estimated cash flows may be based on alternative expected outcomes that are probability weighted. If the carrying value of the long-lived asset is not recoverable based on these estimated future undiscounted cash flows, the carrying value of the asset is written-down to its then-current estimated fair value and an impairment charge is recognized.

The Duke Energy Registrants assess fair value of long-lived assets using various methods, including recent comparable third-party sales, internally developed discounted cash flow analysis and analysis from outside advisors. Triggering events to reassess cash flows may include, but are not limited to, significant changes in commodity prices, the condition of an asset or management's interest in selling the asset.

Equity Method Investment Impairments

Investments in affiliates that are not controlled by Duke Energy, but over which it has significant influence, are accounted for using the equity method. Equity method investments are assessed for impairment whenever events or changes in circumstances indicate that the carrying amount of the investment may not be recoverable. If the decline in value is considered to be other than temporary, the investment is written down to its estimated fair value, which establishes a new cost basis in the investment.

Impairment assessments use a discounted cash flow income approach and include consideration of the severity and duration of any decline in the fair value of the investments. The estimated cash flows may be based on alternative expected outcomes that are probability weighted. Key inputs that involve estimates and significant management judgment include cash flow projections, selection of a discount rate, probability weighting of potential outcomes, and whether any decline in value is considered temporary.

Property, Plant and Equipment

Property, plant and equipment are stated at the lower of depreciated historical cost net of any disallowances or fair value, if impaired. The Duke Energy Registrants capitalize all construction-related direct labor and material costs, as well as indirect construction costs such as general engineering, taxes and financing costs. See "Allowance for Funds Used During Construction and Interest Capitalized" for information on capitalized financing costs. Costs of renewals and betterments that extend the useful life of property, plant and equipment are also capitalized. The cost of repairs, replacements and major maintenance projects, which do not extend the useful life or increase the expected output of the asset, are expensed as incurred. Depreciation is generally computed over the estimated useful life of the asset using the composite straight-line method. Depreciation studies are conducted periodically to update composite rates and are approved by state utility commissions and/or the FERC when required. The composite weighted average depreciation rates, excluding nuclear fuel, are included in the table that follows.

	Years Ended December 31,		
	2019	2018	2017
Duke Energy	3.1%	3.0%	2.8%
Duke Energy Carolinas	2.8%	2.8%	2.8%
Progress Energy	3.1%	2.9%	2.6%
Duke Energy Progress	3.1%	2.9%	2.6%
Duke Energy Florida	3.1%	3.0%	2.8%
Duke Energy Ohio	2.6%	2.8%	2.8%
Duke Energy Indiana	3.3%	3.3%	3.0%
Piedmont	2.4%	2.5%	2.3%

In general, when the Duke Energy Registrants retire regulated property, plant and equipment, the original cost plus the cost of retirement, less salvage value and any depreciation already recognized, is charged to accumulated depreciation. However, when it becomes probable the asset will be retired substantially in advance of its original expected useful life or is abandoned, the cost of the asset and the corresponding accumulated depreciation is recognized as a separate asset. If the asset is still in operation, the net amount is classified as Generation facilities to be retired, net on the Consolidated Balance Sheets. If the asset is no longer operating, the net amount is classified in Regulatory assets on the Consolidated Balance Sheets if deemed recoverable (see discussion of long-lived asset impairments above). The carrying value of the asset is based on historical cost if the Duke Energy Registrants are allowed to recover the remaining net book value and a return equal to at least the incremental borrowing rate. If not, an impairment is recognized to the extent the net book value of the asset exceeds the present value of future revenues discounted at the incremental borrowing rate.

When the Duke Energy Registrants sell entire regulated operating units, or retire or sell nonregulated properties, the original cost and accumulated depreciation and amortization balances are removed from Property, Plant and Equipment on the Consolidated Balance Sheets. Any gain or loss is recorded in earnings, unless otherwise required by the applicable regulatory body. See Note 11 for additional information.

Nuclear Fuel

Nuclear fuel is classified as Property, Plant and Equipment on the Consolidated Balance Sheets.

Nuclear fuel in the front-end fuel processing phase is considered work in progress and not amortized until placed in service. Amortization of nuclear fuel is included within Fuel used in electric generation and purchased power on the Consolidated Statements of Operations. Amortization is recorded using the units-of-production method.

Allowance for Funds Used During Construction and Interest Capitalized

For regulated operations, the debt and equity costs of financing the construction of property, plant and equipment are reflected as AFUDC and capitalized as a component of the cost of property, plant and equipment. AFUDC equity is reported on the Consolidated Statements of Operations as non-cash income in Other income and expenses, net. AFUDC debt is reported as a non-cash offset to Interest Expense. After construction is completed, the Duke Energy Registrants are permitted to recover these costs through their inclusion in rate base and the corresponding subsequent depreciation or amortization of those regulated assets.

AFUDC equity, a permanent difference for income taxes, reduces the ETR when capitalized and increases the ETR when depreciated or amortized. See Note 24 for additional information.

For nonregulated operations, interest is capitalized during the construction phase with an offsetting non-cash credit to Interest Expense on the Consolidated Statements of Operations.

Asset Retirement Obligations

AROs are recognized for legal obligations associated with the retirement of property, plant and equipment. Substantially all AROs are related to regulated operations. When recording an ARO, the present value of the projected liability is recognized in the period in which it is incurred, if a reasonable estimate of fair value can be made. The liability is accreted over time. For operating plants, the present value of the liability is added to the cost of the associated asset and depreciated over the remaining life of the asset. For retired plants, the present value of the liability is recorded as a regulatory asset unless determined not to be probable of recovery.

The present value of the initial obligation and subsequent updates are based on discounted cash flows, which include estimates regarding timing of future cash flows, selection of discount rates and cost escalation rates, among other factors. These estimates are subject to change. Depreciation expense is adjusted prospectively for any changes to the carrying amount of the associated asset. The Duke Energy Registrants receive amounts to fund the cost of the ARO for regulated operations through a combination of regulated revenues and earnings on the NDTF. As a result, amounts recovered in regulated revenues, earnings on the NDTF, accretion expense and depreciation of the associated asset are netted and deferred as a regulatory asset or liability.

Obligations for nuclear decommissioning are based on site-specific cost studies. Duke Energy Carolinas and Duke Energy Progress assume prompt dismantlement of the nuclear facilities after operations are ceased. In 2019, Duke Energy Florida entered into an agreement for the accelerated decommissioning of Crystal River Unit 3. See Note 4 for more information. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida also assume that spent fuel will be stored on-site until such time that it can be transferred to a yet to be built DOE facility.

Obligations for closure of ash basins are based upon discounted cash flows of estimated costs for site-specific plans, if known, or probability weightings of the potential closure methods if the closure plans are under development and multiple closure options are being considered and evaluated on a site-by-site basis. See Note 10 for additional information.

Revenue Recognition

Duke Energy recognizes revenue as customers obtain control of promised goods and services in an amount that reflects consideration expected in exchange for those goods or services. Generally, the delivery of electricity and natural gas results in the transfer of control to customers at the time the commodity is delivered and the amount of revenue recognized is equal to the amount billed to each customer, including estimated volumes delivered when billings have not yet occurred. See Note 19 for further information.

Derivatives and Hedging

Derivative and non-derivative instruments may be used in connection with commodity price and interest rate activities, including swaps, futures, forwards and options. All derivative instruments, except those that qualify for the NPNS exception, are recorded on the Consolidated Balance Sheets at fair value. Qualifying derivative instruments may be designated as either cash flow hedges or fair value hedges. Other derivative instruments (undesignated contracts) either have not been designated or do not qualify as hedges. The effective portion of the change in the fair value of cash flow hedges is recorded in AOCI. The effective portion of the change in the fair value of a fair value hedge is offset in net income by changes in the hedged item. For activity subject to regulatory accounting, gains and losses on derivative contracts are reflected as regulatory assets or liabilities and not as other comprehensive income or current period income. As a result, changes in fair value of these derivatives have no immediate earnings impact.

Formal documentation, including transaction type and risk management strategy, is maintained for all contracts accounted for as a hedge. At inception and at least every three months thereafter, the hedge contract is assessed to see if it is highly effective in offsetting changes in cash flows or fair values of hedged items.

See Note 15 for further information.

Captive Insurance Reserves

Duke Energy has captive insurance subsidiaries that provide coverage, on an indemnity basis, to the Subsidiary Registrants as well as certain third parties, on a limited basis, for financial losses, primarily related to property, workers' compensation and general liability. Liabilities include provisions for estimated losses incurred but not reported (IBNR), as well as estimated provisions for known claims. IBNR reserve estimates are primarily based upon historical loss experience, industry data and other actuarial assumptions. Reserve estimates are adjusted in future periods as actual losses differ from experience.

Duke Energy, through its captive insurance entities, also has reinsurance coverage with third parties for certain losses above a per occurrence and/or aggregate retention. Receivables for reinsurance coverage are recognized when realization is deemed probable.

Unamortized Debt Premium, Discount and Expense

Premiums, discounts and expenses incurred with the issuance of outstanding long-term debt are amortized over the term of the debt issue. The gain or loss on extinguishment associated with refinancing higher-cost debt obligations in the regulated operations is amortized over the remaining life of the original instrument. Amortization expense is recorded as Interest Expense in the Consolidated Statements of Operations and is reflected as Depreciation, amortization and accretion within Net cash provided by operating activities on the Consolidated Statements of Cash Flows.

Premiums, discounts and expenses are presented as an adjustment to the carrying value of the debt amount and included in Long-Term Debt on the Consolidated Balance Sheets presented.

Preferred Stock

Preferred stock is reviewed to determine the appropriate balance sheet classification and embedded features, such as call options, are evaluated to determine if they should be bifurcated and accounted for separately. Costs directly related to the issuance of preferred stock is recorded as a reduction of the proceeds received. The liability for the dividend is recognized when declared. The accumulated dividends on the cumulative preferred stock is recognized to net income available to Duke Energy Corporation in the EPS calculation. See Note 20 for further information.

Loss Contingencies and Environmental Liabilities

Contingent losses are recorded when it is probable a loss has occurred and can be reasonably estimated. When a range of the probable loss exists and no amount within the range is a better estimate than any other amount, the minimum amount in the range is recorded. Unless otherwise required by GAAP, legal fees are expensed as incurred.

Environmental liabilities are recorded on an undiscounted basis when environmental remediation or other liabilities become probable and can be reasonably estimated. Environmental expenditures related to past operations that do not generate current or future revenues are expensed. Environmental expenditures related to operations that generate current or future revenues are expensed or capitalized, as appropriate. Certain environmental expenditures receive regulatory accounting treatment and are recorded as regulatory assets.

See Notes 4 and 5 for further information.

Pension and Other Post-Retirement Benefit Plans

Duke Energy maintains qualified, non-qualified and other post-retirement benefit plans. Eligible employees of the Subsidiary Registrants participate in the respective qualified, non-qualified and other post-retirement benefit plans and the Subsidiary Registrants are allocated their proportionate share of benefit costs. See Note 23 for further information, including significant accounting policies associated with these plans.

Severance and Special Termination Benefits

Duke Energy has severance plans under which in general, the longer a terminated employee worked prior to termination the greater the amount of severance benefits. A liability for involuntary severance is recorded once an involuntary severance plan is committed to by management if involuntary severances are probable and can be reasonably estimated. For involuntary severance benefits incremental to its ongoing severance plan benefits, the fair value of the obligation is expensed at the communication date if there are no future service requirements or over the required future service period. Duke Energy also offers special termination benefits under voluntary severance programs. Special termination benefits are recorded immediately upon employee acceptance absent a significant retention period. Otherwise, the cost is recorded over the remaining service period. Employee acceptance of voluntary severance benefits is determined by management based on the facts and circumstances of the benefits being offered. See Note 21 for further information.

Guarantees

If necessary, liabilities are recognized at the time of issuance or material modification of a guarantee for the estimated fair value of the obligation it assumes. Fair value is estimated using a probability-weighted approach. The obligation is reduced over the term of the guarantee or related contract in a systematic and rational method as risk is reduced. Any additional contingent loss for guarantee contracts subsequent to the initial recognition of a liability is accounted for and recognized at the time a loss is probable and can be reasonably estimated. See Note 8 for further information.

Stock-Based Compensation

Stock-based compensation represents costs related to stock-based awards granted to employees and Board of Directors members. Duke Energy recognizes stock-based compensation based upon the estimated fair value of awards, net of estimated forfeitures at the date of issuance. The recognition period for these costs begins at either the applicable service inception date or grant date and continues throughout the requisite service period. Compensation cost is recognized as expense or capitalized as a component of property, plant and equipment. See Note 22 for further information.

Income Taxes

Duke Energy and its subsidiaries file a consolidated federal income tax return and other state and foreign jurisdictional returns. The Subsidiary Registrants are parties to a tax-sharing agreement with Duke Energy. Income taxes recorded represent amounts the Subsidiary Registrants would incur as separate C-Corporations. Deferred income taxes have been provided for temporary differences between GAAP and tax bases of assets and liabilities because the differences create taxable or tax-deductible amounts for future periods. ITCs associated with regulated operations are deferred and amortized as a reduction of income tax expense over the estimated useful lives of the related properties.

Accumulated deferred income taxes are valued using the enacted tax rate expected to apply to taxable income in the periods in which the deferred tax asset or liability is expected to be settled or realized. In the event of a change in tax rates, deferred tax assets and liabilities are remeasured as of the enactment date of the new rate. To the extent that the change in the value of the deferred tax represents an obligation to customers, the impact of the remeasurement is deferred to a regulatory liability. Remaining impacts are recorded in income from continuing operations. If Duke Energy's estimate of the tax effect of reversing temporary differences is not reflective of actual outcomes, is modified to reflect new developments or interpretations of the tax law, revised to incorporate new accounting principles, or changes in the expected timing or manner of the reversal then Duke Energy's results of operations could be impacted.

Tax-related interest and penalties are recorded in Interest Expense and Other Income and Expenses, net in the Consolidated Statements of Operations.

See Note 24 for further information.

Accounting for Renewable Energy Tax Credits

When Duke Energy receives ITCs on wind or solar facilities, it reduces the basis of the property recorded on the Consolidated Balance Sheets by the amount of the ITC and, therefore, the ITC benefit is ultimately recognized in the statement of operations through reduced depreciation expense. Additionally, certain tax credits and government grants result in an initial tax depreciable base in excess of the book carrying value by an amount equal to one half of the ITC. Deferred tax benefits are recorded as a reduction to income tax expense in the period that the basis difference is created.

Duke Energy receives PTCs on wind facilities that are recognized as electricity is produced.

Excise Taxes

Certain excise taxes levied by state or local governments are required to be paid even if not collected from the customer. These taxes are recognized on a gross basis. Taxes for which Duke operates merely as a collection agent for the state and local government are accounted for on a net basis. Excise taxes accounted for on a gross basis within both Operating Revenues and Property and other taxes in the Consolidated Statements of Operations were as follows.

(in millions)	Years Ended December 31,		
	2019	2018	2017
Duke Energy	\$ 421	\$ 405	\$ 376
Duke Energy Carolinas	39	35	36
Progress Energy	256	241	220
Duke Energy Progress	21	19	19
Duke Energy Florida	235	222	201
Duke Energy Ohio	101	105	98
Duke Energy Indiana	23	22	20
Piedmont	2	2	2

Dividend Restrictions and Unappropriated Retained Earnings

Duke Energy does not have any legal, regulatory or other restrictions on paying common stock dividends to shareholders. However, as further described in Note 4, Duke Energy Carolinas, Duke Energy Progress, Duke Energy Ohio, Duke Energy Indiana and Piedmont have restrictions on paying dividends or otherwise advancing funds to Duke Energy due to conditions established by regulators in conjunction with merger transaction approvals. At December 31, 2019, and 2018, an insignificant amount of Duke Energy's consolidated Retained earnings balance represents undistributed earnings of equity method investments.

New Accounting Standards

Except as noted below, the new accounting standards adopted for 2019, 2018 and 2017 had no material impact on the presentation or results of operations, cash flows or financial position of the Duke Energy Registrants.

Leases. In February 2016, the FASB issued revised accounting guidance for leases. The core principle of this guidance is that a lessee should recognize the assets and liabilities that arise from leases on the balance sheet. This resulted in a material impact on the presentation for the statement of financial position of the Duke Energy Registrants for the period ended December 31, 2019, and an immaterial impact to the Duke Energy Registrants' results of operations and cash flows for the year ended December 31, 2019.

Duke Energy elected the modified retrospective method of adoption effective January 1, 2019. Under the modified retrospective method of adoption, prior year reported results are not restated. For adoption, Duke Energy elected to apply the following practical expedients:

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FINANCIAL STATEMENTS

SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Practical Expedient	Description
Package of transition practical expedients (for leases commenced prior to adoption date and must be adopted as a package)	Do not need to 1) reassess whether any expired or existing contracts are/or contain leases, 2) reassess the lease classification for any expired or existing leases and 3) reassess initial direct costs for any existing leases.
Short-term lease expedient (elect by class of underlying asset)	Elect as an accounting policy to not apply the recognition requirements to short-term leases by asset class.
Lease and non-lease components (elect by class of underlying asset)	Elect as an accounting policy to not separate non-lease components from lease components and instead account for each lease and associated non-lease component as a single lease component by asset class.
Hindsight expedient (when determining lease term)	Elect to use hindsight to determine the lease term.
Existing and expired land easements not previously accounted for as leases	Elect to not evaluate existing or expired easements under the new guidance and carry forward current accounting treatment.
Comparative reporting requirements for initial adoption	Elect to apply transition requirements at adoption date, recognize cumulative effect adjustment to retained earnings in period of adoption and not apply the new requirements to comparative periods, including disclosures.
Lessor expedient (elect by class of underlying asset)	Elect as an accounting policy to aggregate non-lease components with the related lease component when specified conditions are met by asset class. Account for the combined component based on its predominant characteristic (revenue or operating lease).

Duke Energy evaluated the financial statement impact of adopting the standard and monitored industry implementation issues. Under agreements considered leases, where Duke Energy is the lessee, for the use of certain aircraft, space on communication towers, industrial equipment, fleet vehicles, fuel transportation (barges and railcars), land, office space and PPAs are now recognized on the balance sheet. The Duke Energy Registrants did not have a material change to the financial statements from the adoption of the new standard for contracts where it is the lessor. See Note 6 for further information.

The following new accounting standard has been issued but not yet adopted by the Duke Energy Registrants as of December 31, 2019.

Credit Losses. In June 2016, the FASB issued new accounting guidance for credit losses. This guidance establishes a new impairment model applicable to certain financial assets, including trade and other receivables, net investments in leases, and debt securities classified as held-for-sale investments. The model also applies to financial guarantees.

For Duke Energy, the guidance is effective for interim and annual periods beginning January 1, 2020. This guidance will be applied using a modified retrospective approach. Under the modified retrospective approach of adoption, prior year reported results are not restated and a cumulative-effect adjustment is recorded to retained earnings at January 1, 2020.

Upon adoption, Duke Energy will recognize an allowance for credit losses based on management's estimate of losses expected to be incurred over the lives of certain assets or guarantees. Duke Energy expects the impacts of this standard to be driven by the reserve for credit losses on financial guarantees, trade and other receivables, and insurance receivables. Duke Energy does not intend to adopt any practical expedients.

Duke Energy currently expects to record a reserve for credit losses as shown in approximate amounts in the table below:

(in millions)	December 31, 2019					
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Piedmont
Total pretax impact to Retained Earnings	\$ 120	\$ 16	\$ 2	\$ 1	\$ 1	\$ 1

In addition to the reserve for credit losses, Duke Energy expects additional disclosures on management's evaluation of credit risks inherent in financial assets and how management monitors credit quality, changes in expected credit losses, and the appropriateness of the allowance for credit losses on a forward-looking basis. Duke Energy also expects additional disclosures around credit losses for new investments in leases, loan commitments, and other financial instruments.

2. ACQUISITIONS AND DISPOSITIONS

ACQUISITIONS

The Duke Energy Registrants consolidate assets and liabilities from acquisitions as of the purchase date and include earnings from acquisitions in consolidated earnings after the purchase date.

2016 Acquisition of Piedmont Natural Gas

On October 3, 2016, Duke Energy acquired all outstanding common stock of Piedmont for a total cash purchase price of \$5 billion and assumed Piedmont's existing long-term debt, which had a fair value of approximately \$2 billion at the time of the acquisition. The acquisition provides a foundation for Duke Energy to establish a broader, long-term strategic natural gas infrastructure platform to complement its existing natural gas pipeline investments and regulated natural gas business in the Midwest. In connection with the closing of the acquisition, Piedmont became a wholly owned subsidiary of Duke Energy.

Accounting Charges Related to the Acquisition

Duke Energy incurred pretax transaction and integration costs associated with the acquisition of \$84 million and \$103 million for the years ended December 31, 2018, and 2017, respectively. Amounts recorded on the Consolidated Statements of Operations in 2018 and 2017 were primarily system integration costs of \$78 million and \$71 million, respectively, related to combining the various operational and financial systems of Duke Energy and Piedmont, including a one-time software impairment resulting from planned accounting system and process integration in 2017. A \$7 million charge was recorded within Impairment Charges, with the remaining \$64 million recorded within Operation, maintenance and other in 2017.

The majority of transition and integration activities were completed by the end of 2018.

DISPOSITIONS

On April 24, 2019, Duke Energy executed an agreement to sell a minority interest in a portion of certain renewable assets within the Commercial Renewables segment. The sale closed on September 6, 2019, and resulted in pretax proceeds to Duke Energy of \$415 million. The portion of Duke Energy's commercial renewables energy portfolio sold includes 49% of 37 operating wind, solar and battery storage assets and 33% of 11 operating solar assets across the U.S. Duke Energy retained control of these assets, and, therefore, no gain or loss was recognized on the Consolidated Statements of Operations. The difference between the consideration received and the carrying value of the noncontrolling interest claim on net assets is \$466 million, net of a tax benefit of \$8 million, and was recorded in equity.

3. BUSINESS SEGMENTS

Reportable segments are determined based on information used by the chief operating decision-maker in deciding how to allocate resources and evaluate the performance of the business. Duke Energy evaluates segment performance based on segment income. Segment income is defined as income from continuing operations net of income attributable to noncontrolling interests. Segment income, as discussed below, includes intercompany revenues and expenses that are eliminated on the Consolidated Financial Statements. Certain governance costs are allocated to each segment. In addition, direct interest expense and income taxes are included in segment income.

Products and services are sold between affiliate companies and reportable segments of Duke Energy at cost. Segment assets as presented in the tables that follow exclude all intercompany assets.

Duke Energy

Duke Energy's segment structure includes the following segments: Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables.

The Electric Utilities and Infrastructure segment includes Duke Energy's regulated electric utilities in the Carolinas, Florida and the Midwest. The regulated electric utilities conduct operations through the Subsidiary Registrants that are substantially all regulated and, accordingly, qualify for regulatory accounting treatment. Electric Utilities and Infrastructure also includes Duke Energy's electric transmission infrastructure investments.

The Gas Utilities and Infrastructure segment includes Piedmont, Duke Energy's natural gas local distribution companies in Ohio and Kentucky, and Duke Energy's natural gas storage and midstream pipeline investments. Gas Utilities and Infrastructure's operations are substantially all regulated and, accordingly, qualify for regulatory accounting treatment.

The Commercial Renewables segment is primarily comprised of nonregulated utility-scale wind and solar generation assets located throughout the U.S. On April 24, 2019, Duke Energy executed an agreement to sell a minority interest in a portion of certain renewable assets. See Note 2 for additional information on the minority interest sale.

The remainder of Duke Energy's operations is presented as Other, which is primarily comprised of interest expense on holding company debt, unallocated corporate costs and Duke Energy's wholly owned captive insurance company, Bison. Other also includes Duke Energy's interest in NMC. See Note 13 for additional information on the investment in NMC.

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FINANCIAL STATEMENTS

BUSINESS SEGMENTS

Business segment information is presented in the following tables. Segment assets presented exclude intercompany assets.

(in millions)	Year Ended December 31, 2019						
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total Reportable Segments	Other	Eliminations	Total
Unaffiliated Revenues	\$ 22,798	\$ 1,770	\$ 487	\$ 25,055	\$ 24	\$ —	\$ 25,079
Intersegment Revenues	33	96	—	129	71	(200)	—
Total Revenues	\$ 22,831	\$ 1,866	\$ 487	\$ 25,184	\$ 95	\$ (200)	\$ 25,079
Interest Expense	\$ 1,345	\$ 117	\$ 95	\$ 1,557	\$ 705	\$ (58)	\$ 2,204
Depreciation and amortization	3,951	256	168	4,375	178	(5)	4,548
Equity in earnings (losses) of unconsolidated affiliates	9	114	(4)	119	43	—	162
Income tax expense (benefit)	785	22	(115)	692	(173)	—	519
Segment income (loss) ^{(a)(b)}	3,536	432	198	4,166	(452)	—	3,714
Add back noncontrolling interest ^(c)							(177)
Add back preferred stock dividend							41
Loss from discontinued operations, net of tax							(7)
Net income							\$ 3,571
Capital investments expenditures and acquisitions	\$ 8,263	\$ 1,539	\$ 1,423	\$ 11,225	\$ 221	\$ —	\$ 11,446
Segment assets	135,561	13,921	6,020	155,502	3,148	188	158,838

- (a) Electric Utilities and Infrastructure includes a \$27 million reduction of a prior year impairment at Citrus County CC related to the plant's cost cap. See Note 4 for additional information.
- (b) Gas Utilities and Infrastructure includes an after-tax impairment charge of \$19 million for the remaining investment in Constitution. See Note 13 for additional information.
- (c) Includes the allocation of losses to noncontrolling tax equity members. See Note 1 for additional information.

(in millions)	Year Ended December 31, 2018						
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total Reportable Segments	Other	Eliminations	Total
Unaffiliated Revenues	\$ 22,242	\$ 1,783	\$ 477	\$ 24,502	\$ 19	\$ —	\$ 24,521
Intersegment Revenues	31	98	—	129	70	(199)	—
Total Revenues	\$ 22,273	\$ 1,881	\$ 477	\$ 24,631	\$ 89	\$ (199)	\$ 24,521
Interest Expense	\$ 1,288	\$ 106	\$ 88	\$ 1,482	\$ 657	\$ (45)	\$ 2,094
Depreciation and amortization	3,523	245	155	3,923	152	(1)	4,074
Equity in earnings (losses) of unconsolidated affiliates	5	27	(1)	31	52	—	83
Income tax expense (benefit) ^(a)	799	78	(147)	730	(282)	—	448
Segment income (loss) ^{(b)(c)(d)(e)}	3,058	274	9	3,341	(694)	—	2,647
Add back noncontrolling interest component							(22)
Loss from discontinued operations, net of tax							19
Net income							\$ 2,644
Capital investments expenditures and acquisitions	\$ 8,086	\$ 1,133	\$ 193	\$ 9,412	\$ 256	\$ —	\$ 9,668
Segment assets	125,364	12,361	4,204	141,929	3,275	188	145,392

- (a) All segments include adjustments to the December 31, 2017, estimate of the income tax effects of the Tax Act. Electric Utilities and Infrastructure includes a \$24 million expense, Gas Utilities and Infrastructure includes a \$1 million expense, Commercial Renewables includes a \$3 million benefit and Other includes a \$2 million benefit. See Note 24 for additional information.
- (b) Electric Utilities and Infrastructure includes after-tax regulatory and legislative impairment charges of \$202 million related to rate case orders, settlements or other actions of regulators or legislative bodies and an after-tax impairment charge of \$46 million related to the Citrus County CC at Duke Energy Florida. See Note 4 for additional information.
- (c) Gas Utilities and Infrastructure includes an after-tax impairment charge of \$42 million for the investment in Constitution. See Note 13 for additional information.

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FINANCIAL STATEMENTS

BUSINESS SEGMENTS

- (d) Commercial Renewables includes an impairment charge of \$91 million, net of \$2 million Noncontrolling interests, related to goodwill. See Note 12 for additional information.
- (e) Other includes \$65 million of after-tax costs to achieve the Piedmont merger, \$144 million of after-tax severance charges related to a companywide initiative and an \$82 million after-tax loss on the sale of Beckjord described below. For additional information, see Note 2 for the Piedmont Merger and Note 21 for severance charges.

In February 2018, Duke Energy sold Beckjord, a nonregulated facility retired during 2014, and recorded a pretax loss of \$106 million within (Losses) Gains on Sales of Other Assets and Other, net and \$1 million within Operation, maintenance and other on Duke Energy's Consolidated Statements of Operations for the year ended December 31, 2018. The sale included the transfer of coal ash basins and other real property and indemnification from any and all potential future claims related to the property, whether arising under environmental laws or otherwise.

(in millions)	Year Ended December 31, 2017						
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total Reportable Segments	Other	Eliminations	Total
Unaffiliated Revenues	\$ 21,300	\$ 1,743	\$ 460	\$ 23,503	\$ 62	\$ —	\$ 23,565
Intersegment Revenues	31	93	—	124	76	(200)	—
Total Revenues	\$ 21,331	\$ 1,836	\$ 460	\$ 23,627	\$ 138	\$ (200)	\$ 23,565
Interest Expense	\$ 1,240	\$ 105	\$ 87	\$ 1,432	\$ 574	\$ (20)	\$ 1,986
Depreciation and amortization	3,010	231	155	3,396	131	—	3,527
Equity in earnings (losses) of unconsolidated affiliates	5	62	(5)	62	57	—	119
Income tax expense (benefit) ^(a)	1,355	116	(628)	843	353	—	1,196
Segment income (loss) ^{(b)(c)(d)}	3,210	319	441	3,970	(905)	—	3,065
Add back noncontrolling interest component							5
Loss from discontinued operations, net of tax							(6)
Net income							\$ 3,064
Capital investments expenditures and acquisitions	\$ 7,024	\$ 907	\$ 92	\$ 8,023	\$ 175	\$ —	\$ 8,198
Segment assets	119,423	11,462	4,156	135,041	2,685	188	137,914

- (a) All segments include impacts of the Tax Act. Electric Utilities and Infrastructure includes a \$231 million benefit, Gas Utilities and Infrastructure includes a \$26 million benefit, Commercial Renewables includes a \$442 million benefit and Other includes charges of \$597 million.
- (b) Electric Utilities and Infrastructure includes after-tax regulatory settlement charges of \$98 million.
- (c) Commercial Renewables includes after-tax impairment charges of \$74 million related to certain wind projects and the Energy Management Solutions reporting unit. See Notes 11 and 12 for additional information.
- (d) Other includes \$64 million of after-tax costs to achieve the Piedmont merger. See Note 2 for additional information.

Geographical Information

Substantially all assets and revenues from continuing operations are within the U.S.

Major Customers

For the year ended December 31, 2019, revenues from one customer of Duke Energy Progress are \$635 million. Duke Energy Progress has one reportable segment, Electric Utilities and Infrastructure. No other Subsidiary Registrant has an individual customer representing more than 10% of its revenues.

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FINANCIAL STATEMENTS

BUSINESS SEGMENTS

Products and Services

The following table summarizes revenues of the reportable segments by type.

(in millions)	Retail Electric	Wholesale Electric	Retail Natural Gas	Other	Total Revenues
2019					
Electric Utilities and Infrastructure	\$ 19,745	\$ 2,231	\$ —	\$ 855	\$ 22,831
Gas Utilities and Infrastructure	—	—	1,782	84	1,866
Commercial Renewables	—	389	—	98	487
Total Reportable Segments	\$ 19,745	\$ 2,620	\$ 1,782	\$ 1,037	\$ 25,184
2018					
Electric Utilities and Infrastructure	\$ 19,013	\$ 2,345	\$ —	\$ 915	\$ 22,273
Gas Utilities and Infrastructure	—	—	1,817	64	1,881
Commercial Renewables	—	375	—	102	477
Total Reportable Segments	\$ 19,013	\$ 2,720	\$ 1,817	\$ 1,081	\$ 24,631
2017					
Electric Utilities and Infrastructure	\$ 18,177	\$ 2,104	\$ —	\$ 1,050	\$ 21,331
Gas Utilities and Infrastructure	—	—	1,732	104	1,836
Commercial Renewables	—	375	—	85	460
Total Reportable Segments	\$ 18,177	\$ 2,479	\$ 1,732	\$ 1,239	\$ 23,627

Duke Energy Ohio

Duke Energy Ohio has two reportable segments, Electric Utilities and Infrastructure and Gas Utilities and Infrastructure.

Electric Utilities and Infrastructure transmits and distributes electricity in portions of Ohio and generates, distributes and sells electricity in portions of Northern Kentucky. Gas Utilities and Infrastructure transports and sells natural gas in portions of Ohio and Northern Kentucky. Both reportable segments conduct operations primarily through Duke Energy Ohio and its wholly owned subsidiary, Duke Energy Kentucky.

The remainder of Duke Energy Ohio's operations is presented as Other. In December 2018, the PUCO approved an order which allows the recovery or credit of revenues and expenses related to Duke Energy Ohio's contractual arrangement to buy power from OVEC power plants. Due to the change in regulatory treatment of these amounts, OVEC revenues and expenses are now reflected in the Electric Utilities and Infrastructure segment. Previously, OVEC revenues and expense were included in Other. These amounts are deemed immaterial for Duke Energy Ohio. Therefore, no prior period amounts were restated. See Note 4 for additional information on the PUCO order.

All Duke Energy Ohio assets and revenues from continuing operations are within the U.S.

(in millions)	Year Ended December 31, 2019					
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Total Reportable Segments	Other	Eliminations	Total
Total revenues	\$ 1,456	\$ 484	\$ 1,940	\$ —	\$ —	\$ 1,940
Interest expense	\$ 80	\$ 29	\$ 109	\$ —	\$ —	\$ 109
Depreciation and amortization	182	83	265	—	—	265
Income tax expense (benefit)	20	21	41	(1)	—	40
Segment income (loss)/Net income	159	85	244	(5)	—	239
Loss from discontinued operations, net of tax						(1)
Net income						\$ 238
Capital expenditures	\$ 680	\$ 272	\$ 952	\$ —	\$ —	\$ 952
Segment assets	6,188	3,116	9,304	34	—	9,338

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FINANCIAL STATEMENTS

BUSINESS SEGMENTS

(in millions)	Year Ended December 31, 2018					
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Total Reportable Segments	Other	Eliminations	Total
Total revenues	\$ 1,450	\$ 506	\$ 1,956	\$ 1	\$ —	\$ 1,957
Interest expense	\$ 67	\$ 24	\$ 91	\$ 1	\$ —	\$ 92
Depreciation and amortization	183	85	268	—	—	268
Income tax expense (benefit)	47	24	71	(28)	—	43
Segment income (loss)/Net income ^(a)	186	93	279	(103)	—	176
Capital expenditures	\$ 655	\$ 172	\$ 827	\$ —	\$ —	\$ 827
Segment assets	5,643	2,874	8,517	38	—	8,555

(a) Other includes the loss on the sale of Beckjord, see discussion above.

(in millions)	Year Ended December 31, 2017					
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Total Reportable Segments	Other	Eliminations	Total
Total revenues	\$ 1,373	\$ 508	\$ 1,881	\$ 42	\$ —	\$ 1,923
Interest expense	\$ 62	\$ 28	\$ 90	\$ 1	\$ —	\$ 91
Depreciation and amortization	178	83	261	—	—	261
Income tax expense (benefit)	40	39	79	(20)	—	59
Segment income (loss)	138	85	223	(30)	—	193
Loss from discontinued operations, net of tax						(1)
Net income						\$ 192
Capital expenditures	\$ 491	\$ 195	\$ 686	\$ —	\$ —	\$ 686
Segment assets	5,066	2,758	7,824	66	(15)	7,875

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FINANCIAL STATEMENTS

REGULATORY MATTERS

4. REGULATORY MATTERS

REGULATORY ASSETS AND LIABILITIES

The Duke Energy Registrants record regulatory assets and liabilities that result from the ratemaking process. See Note 1 for further information.

The following tables present the regulatory assets and liabilities recorded on the Consolidated Balance Sheets of Duke Energy and Progress Energy. See separate tables below for balances by individual registrant.

(in millions)	Duke Energy		Progress Energy	
	December 31,		December 31,	
	2019	2018	2019	2018
Regulatory Assets				
AROs – coal ash	\$ 4,084	\$ 4,255	\$ 1,843	\$ 2,061
AROs – nuclear and other	739	772	668	601
Accrued pension and OPEB	2,391	2,654	897	1,074
Storm cost deferrals	1,399	1,117	1,214	953
Nuclear asset securitized balance, net	1,042	1,093	1,042	1,093
Debt fair value adjustment	1,019	1,099	—	—
Deferred fuel and purchased power	528	838	305	600
Deferred asset – Lee and Harris COLA	388	426	38	43
Hedge costs deferrals	356	204	129	74
Demand side management (DSM)/Energy Efficiency (EE)	343	449	241	256
Advanced metering infrastructure (AMI)	338	367	114	127
Retired generation facilities	331	402	266	324
Post-in-service carrying costs (PISCC) and deferred operating expenses	329	320	33	36
Vacation accrual	214	213	41	41
Derivatives – natural gas supply contracts	117	141	—	—
Nuclear deferral	107	133	40	46
Manufactured gas plant (MGP)	102	99	—	—
Deferred pipeline integrity costs	79	65	—	—
NCEMPA deferrals	72	50	72	50
East Bend deferrals	44	47	—	—
Transmission expansion obligation	36	39	—	—
Amounts due from customers	36	24	—	—
Grid modernization	28	31	—	—
Other	896	784	349	322
Total regulatory assets	15,018	15,622	7,292	7,701
Less: current portion	1,796	2,005	946	1,137
Total noncurrent regulatory assets	\$ 13,222	\$ 13,617	\$ 6,346	\$ 6,564
Regulatory Liabilities				
Net regulatory liability related to income taxes	\$ 7,872	\$ 8,058	\$ 2,595	\$ 2,710
Costs of removal	5,756	5,421	2,561	2,135
AROs – nuclear and other	1,100	538	—	—
Accrued pension and OPEB	176	301	—	149
Amounts to be refunded to customers	34	34	—	—
Deferred fuel and purchased power	1	16	1	16
Other	1,109	1,064	398	319
Total regulatory liabilities	16,048	15,432	5,555	5,329
Less: current portion	784	598	330	280
Total noncurrent regulatory liabilities	\$ 15,264	\$ 14,834	\$ 5,225	\$ 5,049

Descriptions of regulatory assets and liabilities summarized in the tables above and below follow. See tables below for recovery and amortization periods at the separate registrants.

AROs – coal ash. Represents deferred depreciation and accretion related to the legal obligation to close ash basins. The costs are deferred until recovery treatment has been determined. See Notes 1 and 10 for additional information.

AROs – nuclear and other. Represents regulatory assets or liabilities, including deferred depreciation and accretion, related to legal obligations associated with the future retirement of property, plant and equipment, excluding amounts related to coal ash. The AROs relate primarily to decommissioning nuclear power facilities. The amounts also include certain deferred gains and losses on NDTF investments. See Notes 1 and 10 for additional information.

Accrued pension and OPEB. Accrued pension and OPEB represent regulatory assets and liabilities related to each of the Duke Energy Registrants' respective shares of unrecognized actuarial gains and losses and unrecognized prior service cost and credit attributable to Duke Energy's pension plans and OPEB plans. The regulatory asset or liability is amortized with the recognition of actuarial gains and losses and prior service cost and credit to net periodic benefit costs for pension and OPEB plans. The accrued pension and OPEB regulatory assets are expected to be recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 23 for additional detail.

Storm cost deferrals. Represents deferred incremental costs incurred related to major weather-related events.

Nuclear asset securitized balance, net. Represents the balance associated with Crystal River Unit 3 retirement approved for recovery by the FPSC on September 15, 2015, and the upfront financing costs securitized in 2016 with issuance of the associated bonds. The regulatory asset balance is net of the AFUDC equity portion.

Debt fair value adjustment. Purchase accounting adjustments recorded to state the carrying value of Progress Energy and Piedmont at fair value in connection with the 2012 and 2016 mergers, respectively. Amount is amortized over the life of the related debt.

Deferred fuel and purchased power. Represents certain energy-related costs that are recoverable or refundable as approved by the applicable regulatory body.

Deferred asset – Lee and Harris COLA. Represents deferred costs incurred for the canceled Lee and Harris nuclear projects.

Hedge costs and other deferrals. Amounts relate to unrealized gains and losses on derivatives recorded as a regulatory asset or liability, respectively, until the contracts are settled.

DSM/EE. Deferred costs related to various DSM and EE programs recoverable through various mechanisms.

AMI. Represents deferred costs related to the installation of AMI meters and remaining net book value of non-AMI meters to be replaced at Duke Energy Carolinas, net book value of existing meters at Duke Energy Florida, Duke Energy Progress and Duke Energy Ohio and expected future recovery of net book value of electromechanical meters that have been replaced with AMI meters at Duke Energy Indiana.

Retired generation facilities. Represents amounts to be recovered for facilities that have been retired and are probable of recovery.

Post-in-service carrying costs (PISCC) and deferred operating expenses. Represents deferred depreciation and operating expenses as well as carrying costs on the portion of capital expenditures placed in service but not yet reflected in retail rates as plant in service.

Vacation accrual. Represents vacation entitlement, which is generally recovered in the following year.

Derivatives – natural gas supply contracts. Represents costs for certain long-dated, fixed quantity forward gas supply contracts, which are recoverable through PGA clauses.

Nuclear deferral. Includes amounts related to levelizing nuclear plant outage costs, which allows for the recognition of nuclear outage expenses over the refueling cycle rather than when the outage occurs, resulting in the deferral of operations and maintenance costs associated with refueling.

MGP. Represents remediation costs incurred at former MGP sites and the deferral of costs to be incurred at Duke Energy Ohio's East End and West End sites.

Deferred pipeline integrity costs. Represents pipeline integrity management costs in compliance with federal regulations recovered through a rider mechanism.

NCEMPA deferrals. Represents retail allocated cost deferrals and returns associated with the additional ownership interest in assets acquired from NCEMPA in 2015.

East Bend deferrals. Represents both deferred operating expenses and deferred depreciation as well as carrying costs on the portion of East Bend that was acquired from Dayton Power and Light and that had been previously operated as a jointly owned facility.

Transmission expansion obligation. Represents transmission expansion obligations related to Duke Energy Ohio's withdrawal from MISO.

Amounts due from customers. Relates primarily to margin decoupling and IMR recovery mechanisms.

Grid modernization. Amounts represent deferred depreciation and operating expenses as well as carrying costs on the portion of capital expenditures placed in service but not yet reflected in retail rates as plant in service.

Net regulatory liability related to income taxes. Amounts for all registrants include regulatory liabilities related primarily to impacts from the Tax Act. See Note 24 for additional information. Amounts have no immediate impact on rate base as regulatory assets are offset by deferred tax liabilities.

Costs of removal. Represents funds received from customers to cover the future removal of property, plant and equipment from retired or abandoned sites as property is retired. Also includes certain deferred gains on NDTF investments.

Amounts to be refunded to customers. Represents required rate reductions to retail customers by the applicable regulatory body.

RESTRICTIONS ON THE ABILITY OF CERTAIN SUBSIDIARIES TO MAKE DIVIDENDS, ADVANCES AND LOANS TO DUKE ENERGY

As a condition to the approval of merger transactions, the NCUC, PSCSC, PUCO, KPSC and IURC imposed conditions on the ability of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Ohio, Duke Energy Kentucky, Duke Energy Indiana and Piedmont to transfer funds to Duke Energy through loans or advances, as well as restricted amounts available to pay dividends to Duke Energy. Certain subsidiaries may transfer funds to the Parent by obtaining approval of the respective state regulatory commissions. These conditions imposed restrictions on the ability of the public utility subsidiaries to pay cash dividends as discussed below.

Duke Energy Progress and Duke Energy Florida also have restrictions imposed by their first mortgage bond indentures, which in certain circumstances, limit their ability to make cash dividends or distributions on common stock. Amounts restricted as a result of these provisions were not material at December 31, 2019.

Additionally, certain other subsidiaries of Duke Energy have restrictions on their ability to dividend, loan or advance funds to Duke Energy due to specific legal or regulatory restrictions, including, but not limited to, minimum working capital and tangible net worth requirements.

The restrictions discussed below were not a material amount of Duke Energy's and Progress Energy's net assets at December 31, 2019.

Duke Energy Carolinas

Duke Energy Carolinas must limit cumulative distributions subsequent to mergers to (i) the amount of retained earnings on the day prior to the closing of the mergers, plus (ii) any future earnings recorded.

Duke Energy Progress

Duke Energy Progress must limit cumulative distributions subsequent to the mergers between Duke Energy and Progress Energy and Duke Energy and Piedmont to (i) the amount of retained earnings on the day prior to the closing of the respective mergers, plus (ii) any future earnings recorded.

Duke Energy Ohio

Duke Energy Ohio will not declare and pay dividends out of capital or unearned surplus without the prior authorization of the PUCO. Duke Energy Ohio received FERC and PUCO approval to pay dividends from its equity accounts that are reflective of the amount that it would have in its retained earnings account had push-down accounting for the Cinergy merger not been applied to Duke Energy Ohio's balance sheet. The conditions include a commitment from Duke Energy Ohio that equity, adjusted to remove the impacts of push-down accounting, will not fall below 30% of total capital.

Duke Energy Kentucky is required to pay dividends solely out of retained earnings and to maintain a minimum of 35% equity in its capital structure.

Duke Energy Indiana

Duke Energy Indiana must limit cumulative distributions subsequent to the merger between Duke Energy and Cinergy to (i) the amount of retained earnings on the day prior to the closing of the merger, plus (ii) any future earnings recorded. In addition, Duke Energy Indiana will not declare and pay dividends out of capital or unearned surplus without prior authorization of the IURC.

Piedmont

Piedmont must limit cumulative distributions subsequent to the acquisition of Piedmont by Duke Energy to (i) the amount of retained earnings on the day prior to the closing of the merger, plus (ii) any future earnings recorded.

RATE-RELATED INFORMATION

The NCUC, PSCSC, FPSC, IURC, PUCO, TPUC and KPSC approve rates for retail electric and natural gas services within their states. The FERC approves rates for electric sales to wholesale customers served under cost-based rates (excluding Ohio and Indiana), as well as sales of transmission service. The FERC also regulates certification and siting of new interstate natural gas pipeline projects.

Duke Energy Carolinas and Duke Energy Progress

Hurricane Florence, Hurricane Michael and Winter Storm Diego Deferral Filings

On December 21, 2018, Duke Energy Carolinas and Duke Energy Progress filed with the NCUC petitions for approval to defer the incremental costs incurred in connection with the response to Hurricane Florence, Hurricane Michael and Winter Storm Diego to a regulatory asset for recovery in the next base rate case. The NCUC issued an order requesting comments on the deferral positions. On March 5, 2019, the North Carolina Public Staff (Public Staff) filed comments. On April 2, 2019, Duke Energy Carolinas and Duke Energy Progress filed reply comments, which included revised estimates of approximately \$553 million in incremental operation and maintenance expenses (\$171 million and \$382 million for Duke Energy Carolinas and Duke Energy Progress, respectively) and approximately \$96 million in capital costs (\$20 million and \$76 million for Duke Energy Carolinas and Duke Energy Progress, respectively). On September 30, 2019, Duke Energy Carolinas requested that the NCUC consolidate its pending deferral request with its general rate case filed on that date. On October 30, 2019, Duke Energy Progress requested that the NCUC consolidate its pending deferral request with its general rate case filed on that date. Duke Energy Carolinas and Duke Energy Progress cannot predict the outcome of these matters. Duke Energy Progress filed a deferral request for these storms with the PSCSC on January 11, 2019, which also included a request for the continuation of prior deferrals requested for ice storms and Hurricane Matthew, and on January 30, 2019, the PSCSC issued a directive approving the deferral request, followed by an order issued on February 21, 2019. On March 15, 2019, Duke Energy Progress filed a request with FERC requesting permission to defer transmission-related storm costs that would be charged to wholesale transmission customers through Duke Energy Progress' Open Access Transmission Tariff (OATT) and to recover those costs from wholesale transmission customers over a three-year recovery period. FERC accepted the filing on May 14, 2019, which allows Duke Energy Progress to proceed with the proposed cost deferral and recovery.

Duke Energy Carolinas

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Carolinas' Consolidated Balance Sheets.

	December 31,		Earns/Pays	Recovery/Refund
(in millions)	2019	2018	a Return	Period Ends
Regulatory Assets ^(a)				
AROs – coal ash	\$ 1,696	\$ 1,725	(i)	(b)
Accrued pension and OPEB	477	581		(j)
Storm cost deferrals	178	160	Yes	(b)
Deferred fuel and purchased power	222	196	(f)	2021
Deferred asset – Lee COLA	350	383		(b)
Hedge costs deferrals ^(c)	198	101	Yes	2041
DSM/EE	100	169	(h)	(h)
AMI	166	176	Yes	(b)
Retired generation facilities ^(c)	16	21	Yes	2023
PISCC ^(c)	33	34	Yes	(b)
Vacation accrual	80	78	(e)	2020
Nuclear deferral	67	87		2021
Other	327	266		(b)
Total regulatory assets	3,910	3,977		
Less: current portion	550	520		
Total noncurrent regulatory assets	\$ 3,360	\$ 3,457		
Regulatory Liabilities ^(a)				
Net regulatory liability related to income taxes ^(d)	\$ 3,060	\$ 3,082		(b)
Costs of removal ^(c)	1,936	1,968	Yes	(g)
AROs – nuclear and other	1,100	538		(b)
Accrued pension and OPEB	39	38		(j)
Other	543	572		(b)
Total regulatory liabilities	6,678	6,198		
Less: current portion	255	199		
Total noncurrent regulatory liabilities	\$ 6,423	\$ 5,999		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
- (b) The expected recovery or refund period varies or has not been determined.
- (c) Included in rate base.
- (d) Includes regulatory liabilities related to the change in the federal tax rate as a result of the Tax Act and the change in the North Carolina tax rate, both discussed in Note 24.
- (e) Earns a return on outstanding balance in North Carolina.
- (f) Pays interest on over-recovered costs in North Carolina. Includes certain purchased power costs in North Carolina and South Carolina and costs of distributed energy in South Carolina.
- (g) Recovered over the life of the associated assets.
- (h) Includes incentives on DSM/EE investments and is recovered through an annual rider mechanism.
- (i) Earns a debt and equity return on coal ash expenditures for North Carolina and South Carolina retail customers as permitted by various regulatory orders.
- (j) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 23 for additional detail.

2017 North Carolina Rate Case

On August 25, 2017, Duke Energy Carolinas filed an application with the NCUC for a rate increase for retail customers of approximately \$647 million, which represented an approximate 13.6% increase in annual base revenues. The request for rate increase was driven by capital investments subsequent to the previous base rate case, including the W.S. Lee CC, grid improvement projects, AMI, investments in customer service technologies, costs of complying with CCR regulations and the Coal Ash Act and recovery of costs related to licensing and development of the William States Lee III Nuclear Station.

On February 28, 2018, Duke Energy Carolinas and the Public Staff filed an Agreement and Stipulation of Partial Settlement resolving certain portions of the proceeding. Terms of the settlement included a return on equity of 9.9% and a capital structure of 52% equity and 48% debt. As a result of the settlement, Duke Energy Carolinas recorded a pretax charge of approximately \$4 million in the first quarter of 2018 to Operation, maintenance and other on the Consolidated Statements of Operations.

On June 22, 2018, the NCUC issued an order approving the Stipulation of Partial Settlement and requiring a revenue reduction.

As a result of the June 22, 2018, order, Duke Energy Carolinas recorded a pretax charge of approximately \$150 million to Impairment charges and Operation, maintenance and other on the Consolidated Statements of Operations. The charge was primarily related to the denial of a return on the Lee Nuclear Project and the assessment of a \$70 million management penalty by reducing the annual recovery of deferred coal ash costs by \$14 million per year over a five-year recovery period. On July 27, 2018, NCUC approved Duke Energy Carolinas' compliance filing. As a result, revised customer rates were effective on August 1, 2018.

On July 20, 2018, the North Carolina Attorney General filed a Notice of Appeal to the North Carolina Supreme Court from the June 22, 2018, Order Accepting Stipulation, Deciding Contested Issues and Requiring Revenue Reduction issued by the NCUC. The Attorney General contends the commission's order should be reversed and remanded, as it is in excess of the commission's statutory authority; affected by errors of law; unsupported by competent, material and substantial evidence in view of the entire record as submitted; and arbitrary or capricious. The Sierra Club, North Carolina Sustainable Energy Association, North Carolina Justice Center, North Carolina Housing Coalition, Natural Resource Defense Council and Southern Alliance for Clean Energy also filed Notices of Appeal to the North Carolina Supreme Court. On August 8, 2018, the Public Staff filed a Notice of Cross Appeal to the North Carolina Supreme Court, which contends the commission's June 22, 2018, order should be reversed and remanded, as it is affected by errors of law, and is unsupported by substantial evidence with regard to the commission's failure to consider substantial evidence of coal ash related environmental violations. On November 29, 2018, the North Carolina Attorney General's Office filed a motion with the North Carolina Supreme Court requesting the court consolidate the Duke Energy Carolinas and Duke Energy Progress appeals and enter an order adopting the parties' proposed briefing schedule as set out in the filing. On November 29, 2018, the North Carolina Supreme Court adopted a schedule for briefing set forth in the motion to consolidate the Duke Energy Carolinas and Duke Energy Progress appeals. Appellant briefs were filed on April 26, 2019. The Appellee response briefs were filed on September 25, 2019. Oral arguments before the North Carolina Supreme Court are scheduled for March 11, 2020. Duke Energy Carolinas cannot predict the outcome of this matter.

2019 North Carolina Rate Case

On September 30, 2019, Duke Energy Carolinas filed an application with the NCUC for a net rate increase for retail customers of approximately \$291 million, which represents an approximate 6% increase in annual base revenues. The gross rate case revenue increase request is \$445 million, which is offset by an EDIT rider of \$154 million to return to customers North Carolina and federal EDIT resulting from recent reductions in corporate tax rates. The request for rate increase is driven by major capital investments subsequent to the previous base rate case, coal ash pond closure costs, accelerated coal plant depreciation and deferred 2018 storm costs. Duke Energy Carolinas requests rates be effective no later than August 1, 2020. The NCUC has established a procedural schedule with an evidentiary hearing to commence on March 23, 2020. Duke Energy Carolinas cannot predict the outcome of this matter.

2018 South Carolina Rate Case

On November 8, 2018, Duke Energy Carolinas filed an application with the PSCSC for a rate increase for retail customers of approximately \$168 million, which represents an approximate 10% increase in retail revenues. The request for rate increase was driven by capital investments and environmental compliance progress made by Duke Energy Carolinas since its previous rate case, including the further implementation of Duke Energy Carolinas' generation modernization program, which consists of retiring, replacing and upgrading generation plants, investments in customer service technologies and continued investments in base work to maintain its transmission and distribution systems. The request included net tax benefits resulting from the Tax Act of \$66 million to reflect the change in ongoing tax expense, primarily from the reduction in the federal income tax rate from 35% to 21%. The request also included \$46 million to return EDIT resulting from the federal tax rate change and deferred revenues since January 2018 related to the change and benefits of \$17 million from a reduction in North Carolina state income taxes allocable to South Carolina (EDIT Rider).

Duke Energy Carolinas also requested approval of its proposed Grid Improvement Plan (GIP), adjustments to its Prepaid Advantage Program and a variety of accounting orders related to ongoing costs for environmental compliance, including recovery over a five-year period of \$242 million of deferred coal ash related compliance costs, grid investments between rate changes, incremental depreciation expense, a result of new depreciation rates from the depreciation study approved in the 2017 North Carolina Rate Case above, and the balance of development costs associated with the cancellation of the Lee Nuclear Project. Finally, Duke Energy Carolinas sought approval to establish a reserve and accrual for end-of-life nuclear costs for nuclear fuel and materials and supplies. On March 8, 2019, the ORS moved to establish a new and separate hearing docket to review and consider the GIP proposed by Duke Energy Carolinas. Subsequently, on March 12, 2019, the ORS and Duke Energy Carolinas executed a Stipulation resolving the ORS's motion. The Stipulation provided that costs incurred for the GIP after January 1, 2019, would be deferred with a return, subject to evaluation in a future rate proceeding. The Stipulation was approved by the PSCSC on June 19, 2019. On December 16, 2019, Duke Energy Carolinas and Duke Energy Progress filed a Joint Petition to Establish an Informational Docket for Review and Consideration of Grid Improvement Plans through which Duke Energy Carolinas and Duke Energy Progress would provide interested stakeholders information on the companies' grid activities. The PSCSC requested parties comment on procedural matters by January 31; accordingly, various groups filed comments, none of which opposed an informational docket. Duke Energy Carolinas cannot predict the outcome of this matter.

After hearings in March 2019, the PSCSC issued an order on May 21, 2019, which included a return on equity of 9.5% and a capital structure of 53% equity and 47% debt. The order also included the following material components:

- Approval of cancellation of the Lee Nuclear Project, with Duke Energy Carolinas maintaining the Combined Operating License;
- Approval of recovery of \$125 million (South Carolina retail portion) of Lee Nuclear Project development costs (including AFUDC through December 2017) over a 12-year period, but denial of a return on the deferred balance of costs;
- Approval of recovery of \$96 million of coal ash costs over a five-year period with a return at Duke Energy Carolinas' WACC;
- Denial of recovery of \$115 million of certain coal ash costs deemed to be related to the Coal Ash Act and incremental to the federal CCR rule;
- Approval of a \$66 million decrease to base rates to reflect the change in ongoing tax expense, primarily the reduction in the federal income tax rate from 35% to 21%;
- Approval of a \$45 million decrease through the EDIT Rider to return EDIT resulting from the federal tax rate change and deferred revenues since January 2018 related to the change, to be returned in accordance with the Average Rate Assumption Method (ARAM) for protected EDIT, over a 20-year period for unprotected EDIT associated with Property, Plant and Equipment, over a five-year period for unprotected EDIT not associated with Property, Plant and Equipment and over a five-year period for the deferred revenues; and
- Approval of a \$17 million decrease through the EDIT Rider related to reductions in the North Carolina state income tax rate from 6.9% to 2.5% to be returned over a five-year period.

As a result of the order, revised customer rates were effective June 1, 2019. On May 31, 2019, Duke Energy Carolinas filed a Petition for Rehearing or Reconsideration of that order contending substantial rights of Duke Energy Carolinas were prejudiced by unlawful, arbitrary and capricious rulings by the commission on certain issues presented in the proceeding. On June 19, 2019, the PSCSC issued a Directive denying Duke Energy Carolinas' request to rehear or reconsider the commission's rulings on certain issues presented in the proceeding including coal ash remediation and disposal costs, return on equity and the recovery of a return on deferred operation and maintenance expenses. An order detailing the commission's decision in the Directive was issued on October 18, 2019. Duke Energy Carolinas filed a notice of appeal on November 15, 2019, with the South Carolina Supreme Court. On November 20, 2019, the South Carolina Energy Users Committee filed a Notice of Appeal and the ORS filed a Notice of Cross Appeal with the South Carolina Supreme Court. On January 8, 2020, Duke Energy Carolinas and the ORS filed a joint motion to extend briefing schedule deadlines. Appellant briefs are due on March 2, 2020, and Appellee response briefs are due on May 15, 2020. On February 12, 2020, Duke Energy Carolinas and the ORS filed a joint motion to extend briefing deadlines by 30 days. Based on legal analysis and the filing of the appeal, Duke Energy Carolinas has not recorded an adjustment for its deferred coal ash costs. Duke Energy Carolinas cannot predict the outcome of this matter.

FERC Formula Rate Matter

On July 31, 2017, PMPA filed a complaint with FERC alleging that Duke Energy Carolinas misapplied the formula rate under the PPA between the parties by including in its rates amortization expense associated with regulatory assets and recorded in a certain account without FERC approval. On February 15, 2018, FERC issued an order ruling in favor of PMPA and ordered Duke Energy Carolinas to refund to PMPA all amounts improperly collected under the PPA. Duke Energy Carolinas has issued to PMPA and similarly situated wholesale customers refunds of approximately \$25 million. FERC also set the matter for settlement and hearing. PMPA and other customers filed a protest to Duke Energy Carolinas' refund report claiming that the refunds are inadequate in that (1) Duke Energy Carolinas invoked the limitations periods in the contracts to limit the time period for which the refunds were paid and the customers disagree that this limitation applies, and (2) Duke Energy Carolinas refunded only amounts recovered through a certain account and the customers have asserted that the order applies to all regulatory assets. On July 3, 2018, FERC issued an order accepting Duke Energy Carolinas' refund report and ruling that these two claims are outside the scope of FERC's February order. The settlement agreements and revised formula rates for all parties to the proceeding were filed on December 28, 2018. On April 2, 2019, FERC issued an order approving the settlement agreement as filed. Since then, Duke Energy Carolinas has implemented the terms of the settlement in rates with all wholesale customers, including non-intervening customers. On July 25, 2019, Duke Energy Carolinas received FERC approval for the accounting treatment requested for certain assets included in the settlement agreements. This is the final approval needed from FERC and concludes this proceeding.

Sale of Hydroelectric (Hydro) Plants

In May 2018, Duke Energy Carolinas entered an agreement for the sale of five hydro plants with a combined 18.7-MW generation capacity in the Western Carolinas region to Northbrook Energy. The completion of the transaction was subject to approval from FERC for the four FERC-licensed plants, as well as other state regulatory agencies and was contingent upon regulatory approval from the NCUC and PSCSC to defer the total estimated loss on the sale of approximately \$40 million. On July 5, 2018, Duke Energy Carolinas filed with the NCUC for approval of the sale of the five hydro plants to Northbrook, to transfer the CPCNs for the four North Carolina hydro plants and to establish a regulatory asset for the North Carolina retail portion of the difference between sales proceeds and net book value. On June 5, 2019, the NCUC issued an order approving the transfer of the hydro plants from Duke Energy Carolinas to Northbrook, granting deferral accounting and denying the Public Staff's motion for reconsideration.

On August 28, 2018, Duke Energy Carolinas filed with PSCSC an Application for Approval of Transfer and Sale of Hydroelectric Generation Facilities, Acceptance for Filing of a Power Purchase Agreement and an Accounting Order to Establish a Regulatory Asset. On September 10, 2018, the ORS provided a letter to the commission stating its position on the application and on September 18, 2018, Duke Energy Carolinas requested this matter be carried over to allow Duke Energy Carolinas time to discuss certain accounting issues with the ORS. At its June 26, 2019, agenda meeting, the PSCSC voted to approve the transfer and sale subject to the recommendation of the ORS that the issuance of an Accounting Order will not preclude the ORS, the commission or any other party from addressing the reasonableness of these costs, any return sought and including any carrying costs in the next rate case.

On August 9, 2018, Duke Energy Carolinas and Northbrook filed a joint Application for Transfer of Licenses with the FERC. On December 27, 2018, the FERC issued its Order Approving Transfer of Licenses for the four FERC-licensed hydro plants. On January 18, 2019, Duke Energy Carolinas and Northbrook Carolina Hydro II, LLC requested a six-month extension of time to comply with the requirement of the December 27, 2018, order that Northbrook submit to FERC certified copies of all instruments of conveyance and signed acceptance sheets within 60 days of the date of the order. On February 14, 2019, FERC issued an order granting extensions until August 26, 2019, to comply with the requirements of the December 27, 2018, order.

The closing occurred on August 16, 2019. A regulatory asset was established for approximately \$32 million, which represents the total deferral amount for North Carolina and South Carolina retail. The North Carolina retail portion will be amortized pursuant to an order from the NCUC. Duke Energy Carolinas will purchase all the capacity and energy generated by these facilities at the avoided cost for five years through power purchase agreements.

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FINANCIAL STATEMENTS

REGULATORY MATTERS

Duke Energy Progress

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Progress' Consolidated Balance Sheets.

	December 31,		Earns/Pays	Recovery/Refund
(in millions)	2019	2018	a Return	Period Ends
Regulatory Assets ^(a)				
AROs – coal ash	\$ 1,834	\$ 2,051	(h)	(b)
AROs – nuclear and other	509	429		(c)
Accrued pension and OPEB	423	542		(k)
Storm cost deferrals ^(d)	801	571	Yes	(b)
Deferred fuel and purchased power	266	397	(f)	2021
Deferred asset – Harris COLA	38	43		
Hedge costs deferrals	85	54		(b)
DSM/EE ^(e)	216	235	(i)	(i)
AMI	61	67		(b)
Retired generation facilities	83	105	Yes	(b)
PISCC and deferred operating expenses	33	36	Yes	2054
Vacation accrual	41	41		2020
Nuclear deferral	40	46		2021
NCEMPA deferrals	72	50	(g)	2042
Other	176	147		(b)
Total regulatory assets	4,678	4,814		
Less: current portion	526	703		
Total noncurrent regulatory assets	\$ 4,152	\$ 4,111		
Regulatory Liabilities ^(a)				
Net regulatory liability related to income taxes ^(l)	\$ 1,802	\$ 1,863		(b)
Costs of removal	2,294	1,878	Yes	(j)
Accrued pension and OPEB	—	93		(k)
Other	372	299		(b)
Total regulatory liabilities	4,468	4,133		
Less: current portion	236	178		
Total noncurrent regulatory liabilities	\$ 4,232	\$ 3,955		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Recovery period for costs related to nuclear facilities runs through the decommissioning period of each unit.
(d) South Carolina storm costs are included in rate base.
(e) Included in rate base.
(f) Pays interest on over-recovered costs in North Carolina. Includes certain purchased power costs in North Carolina and South Carolina and costs of distributed energy in South Carolina.
(g) South Carolina retail allocated costs are earning a return.
(h) Earns a debt and equity return on coal ash expenditures for North Carolina and South Carolina retail customers as permitted by various regulatory orders.
(i) Includes incentives on DSM/EE investments and is recovered through an annual rider mechanism.
(j) Recovered over the life of the associated assets.
(k) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 23 for additional detail.
(l) Includes regulatory liabilities related to the change in the federal tax rate as a result of the Tax Act and the change in the North Carolina tax rate, both discussed in Note 23.

2017 North Carolina Rate Case

On June 1, 2017, Duke Energy Progress filed an application with the NCUC for a rate increase for retail customers of approximately \$477 million, which represented an approximate 14.9% increase in annual base revenues. Subsequent to the filing, Duke Energy Progress adjusted the requested amount to \$420 million, representing an approximate 13% increase. The request for rate increase was driven by capital investments subsequent to the previous base rate case, costs of complying with CCR regulations and the Coal Ash Act, costs relating to storm recovery, investments in customer service technologies and recovery of costs associated with renewable purchased power.

On November 22, 2017, Duke Energy Progress and the Public Staff filed an Agreement and Stipulation of Partial Settlement resolving certain portions of the proceeding. Terms of the settlement included a return on equity of 9.9% and a capital structure of 52% equity and 48% debt. On February 23, 2018, the NCUC issued an order approving the stipulation.

The order also impacted certain amounts that were similarly recorded on Duke Energy Carolinas' Consolidated Balance Sheets. As a result of the order, Duke Energy Progress and Duke Energy Carolinas recorded pretax charges of \$68 million and \$14 million, respectively, in the first quarter of 2018 to Impairment charges, Operation, maintenance and other and Interest Expense on the Consolidated Statements of Operations. Revised customer rates became effective on March 16, 2018.

On May 15, 2018, the Public Staff filed a Notice of Cross Appeal to the North Carolina Supreme Court from the NCUC's February 23, 2018, order. The Public Staff contends the NCUC's order should be reversed and remanded, as it is affected by errors of law, and is unsupported by competent, material and substantial evidence in view of the entire record as submitted. The North Carolina Attorney General and Sierra Club also filed Notices of Appeal to the North Carolina Supreme Court from the February 23, 2018, order. On November 29, 2018, the North Carolina Attorney General's Office filed a motion with the North Carolina Supreme Court requesting the court consolidate the Duke Energy Progress and Duke Energy Carolinas appeals and enter an order adopting the parties' proposed briefing schedule as set out in the filing. Appellant briefs were filed on April 26, 2019. The Appellee response briefs were filed on September 25, 2019. Oral arguments before the North Carolina Supreme Court are scheduled for March 11, 2020. Duke Energy Progress cannot predict the outcome of this matter.

2019 North Carolina Rate Case

On October 30, 2019, Duke Energy Progress filed an application with the NCUC for a net rate increase for retail customers of approximately \$464 million, which represents an approximate 12.3% increase in annual base revenues. The gross rate case revenue increase request is \$586 million, which is offset by riders of \$122 million, primarily an EDIT rider of \$120 million to return to customers North Carolina and federal EDIT resulting from recent reductions in corporate tax rates. The request for rate increase is driven by major capital investments subsequent to the previous base rate case, coal ash pond closure costs, accelerated coal plant depreciation and deferred 2018 storm costs. Duke Energy Progress seeks to defer and recover incremental Hurricane Dorian storm costs in this proceeding and requests rates be effective no later than September 1, 2020. The NCUC has established a procedural schedule with an evidentiary hearing to commence on May 4, 2020. Duke Energy Progress cannot predict the outcome of this matter.

Hurricane Dorian

Hurricane Dorian reached the Carolinas in September 2019 as a Category 2 hurricane making landfall within Duke Energy Progress' service territory. Approximately 270,000 North Carolina customers and 30,000 South Carolina customers were impacted by the slow-moving storm that brought high winds, tornadoes and heavy rain. With storm-response mobilization occurring in preparation for the storm and the assistance of mutual aid partners, full restoration was accomplished within four days for all customers able to receive service. Total estimated incremental operation and maintenance expenses incurred to repair and restore the system are approximately \$205 million with an additional \$4 million in capital investments made for restoration efforts. Approximately \$179 million of the operation and maintenance expenses are deferred in Regulatory assets within Other Noncurrent Assets on the Consolidated Balance Sheets as of December 31, 2019. The balance of operation and maintenance expenses are included in Operation, maintenance and other on the Consolidated Statements of Operations for the year ended December 31, 2019. A request for an accounting order to defer incremental storm costs associated with Hurricane Dorian was included in Duke Energy Progress' October 30, 2019, general rate case filing with the NCUC. Duke Energy Progress cannot predict the outcome of this matter.

2018 South Carolina Rate Case

On November 8, 2018, Duke Energy Progress filed an application with the PSCSC for a rate increase for retail customers of approximately \$59 million, which represents an approximate 10.3% increase in annual base revenues. The request for rate increase was driven by capital investments and environmental compliance progress made by Duke Energy Progress since its previous rate case, including the further implementation of Duke Energy Progress' generation modernization program, which consists of retiring, replacing and upgrading generation plants, investments in customer service technologies and continued investments in base work to maintain its transmission and distribution systems. The request included a decrease resulting from the Tax Act of \$17 million to reflect the change in ongoing tax expense, primarily the reduction in the federal income tax rate from 35% to 21%. The request also included \$10 million to return EDIT resulting from the federal tax rate change and deferred revenues since January 2018 related to the change (EDIT Rider) and a \$12 million increase due to the expiration of EDITs related to reductions in North Carolina state income taxes allocable to South Carolina.

Duke Energy Progress also requested approval of its proposed GIP, approval of a Prepaid Advantage Program and a variety of accounting orders related to ongoing costs for environmental compliance, including recovery over a five-year period of \$51 million of deferred coal ash related compliance costs, AMI deployment, grid investments between rate changes and regulatory asset treatment related to the retirement of a generating plant located in Asheville, North Carolina. Finally, Duke Energy Progress sought approval to establish a reserve and accrual for end-of-life nuclear costs for materials and supplies and nuclear fuel. On March 8, 2019, the ORS moved to establish a new and separate hearing docket to review and consider the GIP proposed by Duke Energy Progress. Subsequently, on March 12, 2019, the ORS and Duke Energy Carolinas executed a Stipulation resolving the ORS's motion, and Duke Energy Progress agreed to the Stipulation, as did other parties in the rate case. The Stipulation provides that costs incurred for the GIP after January 1, 2019, would be deferred with a return, with all costs subject to evaluation in a future rate proceeding. The Stipulation was approved by the PSCSC on June 19, 2019. On December 16, 2019, Duke Energy Progress and Duke Energy Carolinas filed a Joint Petition to Establish an Informational Docket for Review and Consideration of Grid Improvement Plans through which Duke Energy Progress and Duke Energy Carolinas would provide interested stakeholders information on the companies' grid activities. The PSCSC requested parties comment on procedural matters by January 31; accordingly, various groups filed comments, none of which opposed an informational docket. Duke Energy Progress cannot predict the outcome of this matter.

After hearings in April 2019, the PSCSC issued an order on May 21, 2019, which included a return on equity of 9.5% and a capital structure of 53% equity and 47% debt. The order also included the following material components:

- Approval of recovery of \$4 million of coal ash costs over a five-year period with a return at Duke Energy Progress' WACC;

- Denial of recovery of \$65 million of certain coal ash costs deemed to be related to the Coal Ash Act and incremental to the federal CCR rule;
- Approval of a \$17 million decrease to base rates to reflect the change in ongoing tax expense, primarily the reduction in the federal income tax rate from 35% to 21%;
- Approval of a \$12 million decrease through the EDIT Tax Savings Rider resulting from the federal tax rate change and deferred revenues since January 2018 related to the change, to be returned in accordance with ARAM for protected EDIT, over a 20-year period for unprotected EDIT associated with Property, Plant and Equipment, over a five-year period for unprotected EDIT not associated with Property, Plant and Equipment and over a three-year period for the deferred revenues; and
- Approval of a \$12 million increase due to the expiration of EDIT related to reductions in the North Carolina state income tax rate from 6.9% to 2.5%.

As a result of the order, revised customer rates were effective June 1, 2019. On May 31, 2019, Duke Energy Progress filed a Petition for Rehearing or Reconsideration of that order contending substantial rights of Duke Energy Progress were prejudiced by unlawful, arbitrary and capricious rulings by the commission on certain issues presented in the proceeding. On June 19, 2019, the PSCSC issued a Directive denying Duke Energy Progress' request to rehear or reconsider the commission's rulings on certain issues presented in the proceeding including coal ash remediation and disposal costs, return on equity and the recovery of a return on deferred operation and maintenance expenses, but allowing additional litigation-related costs. As a result of the Directive allowing litigation-related costs, customer rates were revised effective July 1, 2019. An order detailing the commission's decision in the Directive was issued on October 18, 2019. Duke Energy Progress filed a notice of appeal on November 15, 2019, with the South Carolina Supreme Court. The ORS filed a Notice of Cross Appeal on November 20, 2019. On January 8, 2020, Duke Energy Progress and the ORS filed a joint motion to extend briefing schedule deadlines. Appellant briefs are due on March 2, 2020, and Appellee response briefs are on May 15, 2020. On February 12, 2020, Duke Energy Progress and the ORS filed a joint motion to extend briefing deadlines by 30 days. Based on legal analysis and the filing of the appeal, Duke Energy Progress has not recorded an adjustment for its deferred coal ash costs. Duke Energy Progress cannot predict the outcome of this matter.

Western Carolinas Modernization Plan

On November 4, 2015, Duke Energy Progress announced a Western Carolinas Modernization Plan, which included retirement of the existing Asheville coal-fired plant, the construction of two 280 MW combined-cycle natural gas plants having dual-fuel capability, with the option to build a third natural gas simple cycle unit in 2023 based upon the outcome of initiatives to reduce the region's power demand. The plan also included upgrades to existing transmission lines and substations, installation of solar generation and a pilot battery storage project. Duke Energy Progress worked with the local natural gas distribution company to upgrade and lease an existing natural gas pipeline to serve the natural gas plant. The lease for the new pipeline became effective on March 2, 2019.

On March 28, 2016, the NCUC issued an order approving a CPCN for the new combined-cycle natural gas plants, but is requiring Duke Energy Progress to refile for CPCN approval for the contingent simple cycle unit. On March 28, 2019, Duke Energy Progress filed an annual progress report for the construction of the combined-cycle plants with the NCUC, with an estimated cost of \$893 million.

On December 27, 2019, Asheville Combined Cycle Power Block 1 and the common systems that serve both combined cycle units went into commercial operation. Power Block 1 consists of the Unit 5 Combustion Turbine and Unit 6 Steam Turbine Generator (which together form the first combined cycle unit approved in the CPCN Order). Power Block 2 consists of the Unit 7 Combustion Turbine and Unit 8 Steam Turbine Generator (which together form the second combined cycle unit approved in the CPCN Order). Duke Energy Progress placed the Unit 7 Combustion Turbine portion of Power Block 2 into commercial operation in simple-cycle mode on January 15, 2020. Duke Energy Progress currently expects to place the Unit 8 Steam Turbine Generator into commercial operation in the first quarter of 2020, after final testing has been completed.

On October 8, 2018, Duke Energy Progress filed an application with the NCUC for a CPCN to construct the Hot Springs Microgrid Solar and Battery Storage Facility. On March 22, 2019, Duke Energy Progress and the Public Staff filed a Joint Proposed Order. On May 10, 2019, the NCUC issued an Order Granting Certificate of Public Convenience and Necessity with Conditions. On November 19, 2019, Duke Energy Progress filed a semiannual progress report for its Hot Springs Microgrid Solar and Battery Storage Facility. As required by an NCUC order issued December 6, 2019, an updated progress report was filed on January 15, 2020. Construction is expected to begin in March 2020 with commercial operation expected to begin in September 2020.

The carrying value of the 376-MW Asheville coal-fired plant, including associated ash basin closure costs, of \$214 million and \$327 million is included in Generation facilities to be retired, net on Duke Energy Progress' Consolidated Balance Sheets as of December 31, 2019, and 2018, respectively. Duke Energy Progress' request for a regulatory asset at the time of retirement with amortization over a 10-year period was approved by the NCUC on February 23, 2018. Duke Energy Progress retired the Asheville coal-fired plant on January 29, 2020.

FERC Return on Equity Complaint

On October 11, 2019, NCEMPA filed a complaint at FERC against Duke Energy Progress pursuant to Section 206 of the Federal Power Act (FPA). The complaint alleges that the return on equity component in the formula rate contained within the Full Requirements Power Purchase Agreement (FRPPA) is unjust and unreasonable. The FRPPA's return on equity is 11% as applied to the Production Capacity Rate for the full requirements service provided by Duke Energy Progress. The complaint does not definitively propose a replacement return on equity. Under FPA Section 206, the earliest refund effective date that FERC can establish is the date of the filing of the complaint. The complaint could raise risks across the Duke Energy Progress wholesale business because, depending on how FERC treats NCEMPA's complaint, other parties may come forward with similar complaints. Duke Energy Progress cannot predict the outcome of this matter.

FINANCIAL STATEMENTS

REGULATORY MATTERS

Duke Energy Florida

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Florida's Consolidated Balance Sheets.

	December 31,		Earns/Pays	Recovery/Refund
(in millions)	2019	2018	a Return	Period Ends
Regulatory Assets^(a)				
AROs – coal ash ^(c)	\$ 9	\$ 10		(b)
AROs – nuclear and other ^(c)	159	172		(b)
Accrued pension and OPEB ^(c)	474	532	Yes	(g)
Storm cost deferrals ^(c)	413	382	(e)	2021
Nuclear asset securitized balance, net	1,042	1,093		2036
Deferred fuel and purchased power	39	203	(f)	2021
Hedge costs deferrals	44	20		2038
DSM/EE ^(c)	25	21	Yes	2024
AMI ^(c)	53	60	Yes	2032
Retired generation facilities ^(c)	183	219	Yes	(b)
Other	172	176	(d)	(b)
Total regulatory assets	2,613	2,888		
Less: current portion	419	434		
Total noncurrent regulatory assets	\$ 2,194	\$ 2,454		
Regulatory Liabilities^(a)				
Net regulatory liability related to income taxes ^(c)	\$ 793	\$ 847		(b)
Costs of removal ^(c)	267	257	(d)	(b)
Accrued pension and OPEB	—	56	Yes	(g)
Deferred fuel and purchased power ^(c)	1	16	(f)	2021
Other	26	20	(d)	(b)
Total regulatory liabilities	1,087	1,196		
Less: current portion	94	102		
Total noncurrent regulatory liabilities	\$ 993	\$ 1,094		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Included in rate base.
(d) Certain costs earn/pay a return.
(e) Earns a debt return/interest once collections begin.
(f) Earns commercial paper rate.
(g) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 23 for additional detail.

Storm Restoration Cost Recovery

In September 2017, Duke Energy Florida's service territory suffered significant damage from Hurricane Irma, resulting in approximately 1 million customers experiencing outages. In the fourth quarter of 2017, Duke Energy Florida also incurred preparation costs related to Hurricane Nate. On December 28, 2017, Duke Energy Florida filed a petition with the FPSC to recover incremental storm restoration costs for Hurricane Irma and Hurricane Nate and to replenish the storm reserve. On February 6, 2018, the FPSC approved a stipulation that would apply tax savings resulting from the Tax Act toward storm costs effective January 2018 in lieu of implementing a storm surcharge. On May 31, 2018, Duke Energy Florida filed a petition for approval of actual storm restoration costs and associated recovery process related to Hurricane Irma and Hurricane Nate. The petition sought the approval for the recovery in the amount of \$510 million in actual recoverable storm restoration costs, including the replenishment of Duke Energy Florida's storm reserve of \$132 million, and the process for recovering these recoverable storm costs. On August 20, 2018, the FPSC approved Duke Energy Florida's unopposed Motion for Continuance filed August 17, 2018, to allow for an evidentiary hearing in this matter. On January 28, 2019, Duke Energy Florida made a supplemental filing to reduce the total storm cost recovery from \$510 million to \$508 million. On April 3, 2019, the FPSC issued an Order abating all remaining filing dates. On April 9, 2019, Duke Energy Florida filed an unopposed motion to approve a settlement agreement resolving all outstanding issues in this docket. On June 13, 2019, the FPSC issued its order approving the settlement agreement. The Storm Cost Settlement Agreement obligates Duke Energy Florida to capitalize \$18 million of storm costs and remove \$6 million of operating and maintenance expense, thereby reducing the requested storm cost recovery amount by \$24 million. Duke Energy Florida will also implement process changes with respect to storm cost restoration. At December 31, 2019, and December 31, 2018, Duke Energy Florida's Consolidated Balance Sheets included approximately \$43 million and \$217 million, respectively, of recoverable costs under the FPSC's storm rule in Regulatory assets within Current Assets and Other Noncurrent Assets related to storm recovery for Hurricane Irma and Hurricane Nate.

In October 2018, Duke Energy Florida's service territory suffered damage when Hurricane Michael made landfall as a Category 5 hurricane with maximum sustained winds of 160 mph. The storm caused catastrophic damage from wind and storm surge, particularly from Panama City Beach to Mexico Beach, resulting in widespread outages and significant damage to transmission and distribution facilities across the central Florida Panhandle. In response to Hurricane Michael, Duke Energy Florida restored service to approximately 72,000 customers. Total estimated incremental operation and maintenance and capital costs are \$311 million. Approximately \$107 million and \$35 million of the costs are included in Net property, plant and equipment on the Consolidated Balance Sheets as of December 31, 2019, and December 31, 2018, respectively. Approximately \$204 million and \$165 million of costs are included in Regulatory assets within Current Assets and Other Noncurrent Assets on the Consolidated Balance Sheets as of December 31, 2019, and December 31, 2018, respectively, representing recoverable costs under the FPSC's storm rule and Duke Energy Florida's OATT formula rates.

Duke Energy Florida filed a petition with the FPSC on April 30, 2019, to recover the retail portion of incremental storm restoration costs for Hurricane Michael. On June 11, 2019, the FPSC approved the petition for recovery of incremental storm restoration costs related to Hurricane Michael. The FPSC also approved the stipulation Duke Energy Florida filed, which will allow Duke Energy Florida to use the tax savings resulting from the Tax Act to recover these storm costs in lieu of implementing a storm surcharge. Approved storm costs are currently expected to be fully recovered by approximately year-end 2021. On November 22, 2019, Duke Energy Florida filed a petition for approval of actual retail recoverable storm restoration costs related to Hurricane Michael in the amount of \$191 million plus interest. An Order Establishing Procedure was issued on January 30, 2020, and hearings are scheduled to begin September 15, 2020. Duke Energy Florida cannot predict the outcome of this matter.

Hurricane Dorian

In September 2019, Duke Energy Florida's service territory was threatened by Hurricane Dorian with landfall as a possible Category 5 hurricane. For several days, various forecasts and models predicted significant impact to Duke Energy Florida's service territory; accordingly, Duke Energy Florida incurred costs to secure necessary resources to be prepared for that potential impact. Although Hurricane Dorian never made landfall in Florida, its effects were still felt, and outages did occur. Preparations were required so that, if Hurricane Dorian had made landfall and impacts had been more severe, Duke Energy Florida would have been prepared to restore its customers' power in a timely fashion.

Total current estimated incremental costs are approximately \$167 million. These costs are included in Regulatory assets within Current Assets and Other Noncurrent Assets on the Consolidated Balance Sheets as of December 31, 2019, representing recoverable costs under the FPSC's storm rule and Duke Energy Florida's OATT formula rates. On December 19, 2019, Duke Energy Florida filed a petition with the FPSC to recover the estimated retail portion of these costs, consistent with the provisions in the 2017 Settlement. The request seeks recovery over a 12-month period beginning in March 2020. The final actual amount will be filed later in 2020 and a hearing will be held at the FPSC to determine the final amount of incremental costs. Duke Energy Florida cannot predict the outcome of this matter.

Tax Act

Pursuant to Duke Energy Florida's 2017 Settlement, on May 31, 2018, Duke Energy Florida filed a petition related to the Tax Act, which included revenue requirement impacts of annual tax savings of \$134 million and estimated annual amortization of EDIT of \$67 million for a total of \$201 million. Of this amount, \$50 million would be offset by accelerated depreciation of Crystal River 4 and 5 coal units and an estimated \$151 million would be offset by Hurricane Irma storm cost recovery as explained in the Storm Restoration Cost Recovery section above. On December 27, 2018, Duke Energy Florida filed actual EDIT balances and amortization based on its 2017 filed tax return. This increased the revenue requirement impact of the amortization of EDIT by \$4 million, from \$67 million to \$71 million, which increased the total storm amortization from \$151 million to \$155 million. On January 8, 2019, the FPSC approved a joint motion by Duke Energy Florida and the Office of Public Counsel resolving all stipulated positions. As part of that stipulation, Duke Energy Florida agreed to seek a Private Letter Ruling (PLR) from the IRS on its treatment of cost of removal (COR) as mostly protected by tax normalization rules. If the IRS rules that COR is not protected by tax normalization rules, then Duke Energy Florida will make a final adjustment to the amortization of EDIT and an adjustment to the storm recovery amount retroactive to January 2018. The IRS has communicated that it will not issue individual PLRs on the treatment of COR. Rather, the IRS is drafting a notice that will request comments on a number of issues, including COR, and the IRS plans to issue industrywide guidance on those issues. Duke Energy Florida cannot predict the outcome of this matter.

Citrus County CC

Construction of the 1,640-MW combined-cycle natural gas plant in Citrus County, Florida, began in October 2015 with an estimated cost of \$1.5 billion, including AFUDC. Both units came on-line in the fourth quarter of 2018. The ultimate cost of the facility was estimated to be \$1.6 billion, and Duke Energy Florida recorded Impairment charges on Duke Energy's Consolidated Statements of Operations of \$60 million in the fourth quarter of 2018 for the overrun. In the year ended December 31, 2019, Duke Energy Florida recorded a \$36 million reduction to the prior-year impairment due to a decrease in the cost estimate of the Citrus County CC, primarily related to the settlement agreement with Fluor, the EPC contractor. This adjustment reduced the estimated cost of the facility to \$1.5 billion.

Solar Base Rate Adjustment

On July 31, 2018, Duke Energy Florida petitioned the FPSC to include in base rates the revenue requirements for its first two solar generation projects, the Hamilton Project and the Columbia Project, as authorized by the 2017 Settlement. The Hamilton Project, which was placed into service on December 22, 2018, has an annual retail revenue requirement of \$15 million. At its October 30, 2018, Agenda Conference, the FPSC approved the rate increase related to the Hamilton Project to go into effect beginning with the first billing cycle in January 2019 under its file and suspend authority, and revised customer rates became effective in January 2019. The Columbia Project has a projected annual revenue requirement of \$14 million and a projected in-service date in early 2020; the associated rate increase would take place with the first month's billing cycle after the Columbia Project goes into service. On April 2, 2019, the commission approved both solar projects as filed.

FINANCIAL STATEMENTS

REGULATORY MATTERS

On March 25, 2019, Duke Energy Florida petitioned the FPSC to include in base rates the revenue requirements for its next wave of solar generation projects, the Trenton, Lake Placid and DeBary Solar Projects, as authorized by the 2017 Settlement. The annual retail revenue requirement for the Trenton and Lake Placid Projects is \$13 million and \$8 million, respectively, and were placed into service in December 2019 with rates taking effect in January 2020. The DeBary Project has a projected annual revenue requirement of \$11 million and a projected in-service date in the first half of 2020. The associated rate increase would take place with the first month's billing cycle after each solar generation project goes into service. On July 22, 2019, the FPSC issued an order approving Duke Energy Florida's request.

Crystal River Unit 3 Accelerated Decommissioning Filing

On May 29, 2019, Duke Energy Florida entered into a Decommissioning Services Agreement for the accelerated decommissioning of the Crystal River Unit 3 nuclear power station located in Citrus County, Florida, with ADP CR3, LLC and ADP SF1, LLC, each of which is a wholly owned subsidiary of Accelerated Decommissioning Partners, LLC, a joint venture between NorthStar Group Services, Inc. and Orano USA LLC. Closing of this agreement is contingent upon the approval of the NRC and FPSC. If approved, the decommissioning will be accelerated starting in 2020 and continuing through 2027, rather than the expected time frame under SAFSTOR of starting in 2067 and ending in 2074. Duke Energy Florida expects that the assets of the Nuclear Decommissioning Trust Fund will be sufficient to cover the contract price. On July 10, 2019, Duke Energy Florida petitioned the FPSC for approval of the agreement. Duke Energy Florida cannot predict the outcome of this matter.

Duke Energy Ohio

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Ohio's Consolidated Balance Sheets.

	December 31,		Earns/Pays	Recovery/Refund
(in millions)	2019	2018	a Return	Period Ends
Regulatory Assets ^(a)				
AROs – coal ash	\$ 16	\$ 20	Yes	(b)
Accrued pension and OPEB	155	146		(g)
Storm cost deferrals	7	4		2023
Deferred fuel and purchased power	1	2		2020
Hedge costs deferrals	6	5		(b)
DSM/EE	2	10	(f)	(e)
AMI	40	46		(b)
PISCC and deferred operating expenses ^(c)	17	17	Yes	2083
Vacation accrual	5	5		2020
MGP	102	99		(b)
Deferred pipeline integrity costs	17	14	Yes	(b)
East Bend deferrals	44	47	Yes	(b)
Transmission expansion obligation	40	43		(e)
Grid modernization	28	31	Yes	(b) (c)
Other	118	75		(b)
Total regulatory assets	598	564		
Less: current portion	49	33		
Total noncurrent regulatory assets	\$ 549	\$ 531		
Regulatory Liabilities ^(a)				
Net regulatory liability related to income taxes	\$ 654	\$ 678		(b)
Costs of removal	86	126		(d)
Accrued pension and OPEB	16	18		(g)
Other	71	75		(b)
Total regulatory liabilities	827	897		
Less: current portion	64	57		
Total noncurrent regulatory liabilities	\$ 763	\$ 840		

(a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.

(b) The expected recovery or refund period varies or has not been determined.

(c) Included in rate base.

(d) Recovery over the life of the associated assets.

(e) Recovered via a rider mechanism.

(f) Includes incentives on DSM/EE investments.

(g) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 23 for additional detail.

2017 Electric Security Plan Filing

On June 1, 2017, Duke Energy Ohio filed with the PUCO a request for a standard service offer in the form of an Electric Security Plan (ESP). On February 15, 2018, the procedural schedule was suspended to facilitate ongoing settlement discussions. On April 13, 2018, Duke Energy Ohio filed a Motion to consolidate this proceeding with several other cases pending before the PUCO, including, but not limited to, its Electric Base Rate Case. Additionally, on April 13, 2018, Duke Energy Ohio, along with certain intervenors, filed a Stipulation and Recommendation (Stipulation) with the PUCO resolving certain issues in this proceeding. The term of the ESP would be from June 1, 2018, to May 31, 2025, and included continuation of market-based customer rates through competitive procurement processes for generation, continuation and expansion of existing rider mechanisms and proposed new rider mechanisms relating to regulatory mandates, costs incurred to enhance the customer experience and transform the grid and a service reliability rider for vegetation management. The Stipulation established a regulatory model for the next seven years via the approval of the ESP and continued the current model for procuring supply for non-shopping customers, including recovery mechanisms. On December 19, 2018, the PUCO approved the Stipulation without material modification. Several parties, including the OCC, filed applications for rehearing. On February 6, 2019, the PUCO granted the parties rehearing. The PUCO issued its Second Entry on Rehearing on July 17, 2019, upholding its December 19, 2018, order and denying all assignments of error raised by the non-stipulating parties. On October 11, 2019, the OCC filed its Third Application for Rehearing arguing the PUCO erred in finding OCC's Second Application for Rehearing as improper. Duke Energy Ohio filed its Memorandum Contra on October 21, 2019. The PUCO denied OCC's Third Application for Rehearing as a matter of law. On September 13, 2019, Interstate Gas Supply/Retail Supply Association filed appeals to the Ohio Supreme Court claiming the PUCO's order was in error because it approved unsupported charges to competitive suppliers and cost subsidies shopping customers pay for non-shopping customers. On September 16, 2019, the OCC filed an appeal challenging the PUCO's approval of OVEC recovery through Rider PSR alleging the FPA pre-empts the commission's jurisdiction and that the record does not support finding that Rider PSR results in a limitation on shopping. Appellant briefs were filed on January 6, 2020. Appellee briefs will be due March 16, 2020. Duke Energy Ohio cannot predict the outcome of this matter.

Electric Base Rate Case

Duke Energy Ohio filed with the PUCO an electric distribution base rate case application and supporting testimony in March 2017. Duke Energy Ohio requested an estimated annual increase of approximately \$15 million and a return on equity of 10.4%. The application also included requests to continue certain current riders and establish new riders. On September 26, 2017, the PUCO staff filed a report recommending a revenue decrease between approximately \$18 million and \$29 million and a return on equity between 9.22% and 10.24%. On April 13, 2018, Duke Energy Ohio filed a Motion to consolidate this proceeding with several other cases pending before the PUCO. On April 13, 2018, Duke Energy Ohio, along with certain intervenors, filed the Stipulation with the PUCO resolving numerous issues including those in this base rate proceeding. Major components of the Stipulation related to the base distribution rate case included a \$19 million decrease in annual base distribution revenue with a return on equity unchanged from the current rate of 9.84% based upon a capital structure of 50.75% equity and 49.25% debt. Upon approval of new rates, Duke Energy Ohio's rider for recovering its initial SmartGrid implementation ended as these costs would be recovered through base rates. The Stipulation also renewed 14 existing riders, some of which were included in the company's ESP, and added two new riders including the Enhanced Service Reliability Rider to recover vegetation management costs not included in base rates, up to \$10 million per year (operation and maintenance only) and the PowerForward Rider to recover costs incurred to enhance the customer experience and further transform the grid (operation and maintenance and capital). In addition to the changes in revenue attributable to the Stipulation, Duke Energy Ohio's capital-related riders, including the Distribution Capital Investments Rider, began to reflect the lower federal income tax rate associated with the Tax Act with updates to customers' bills beginning April 1, 2018. This change reduced electric revenue by approximately \$20 million on an annualized basis. On December 19, 2018, the PUCO approved the Stipulation without material modification. New base rates were implemented effective January 2, 2019. Several parties including the OCC filed applications for rehearing. On February 6, 2019, the PUCO granted the parties rehearing. The PUCO issued its Second Entry on Rehearing on July 17, 2019, upholding its December 19, 2018, order and denying all assignments of error raised by the non-stipulating parties. On October 11, 2019, the OCC filed its Third Application for Rehearing arguing the PUCO erred in finding OCC's Second Application for Rehearing as improper. Duke Energy Ohio filed its Memorandum Contra on October 21, 2019. The PUCO denied OCC's Third Application for Rehearing as a matter of law. On September 13, 2019, Interstate Gas Supply/Retail Supply Association filed appeals to the Ohio Supreme Court claiming the PUCO's order was in error because it approved unsupported charges to competitive suppliers and cost subsidies shopping customers pay for non-shopping customers. On September 16, 2019, the OCC filed an appeal challenging the PUCO's approval of OVEC recovery through Rider PSR alleging the FPA pre-empts the commission's jurisdiction and that the record does not support finding that Rider PSR results in a limitation on shopping. Appellant briefs were filed on January 6, 2020. Appellee briefs will be due March 16, 2020. Duke Energy Ohio cannot predict the outcome of this matter.

Ohio Valley Electric Corporation

On March 31, 2017, Duke Energy Ohio filed for approval to adjust its existing Rider PSR to pass through net costs related to its contractual entitlement to capacity and energy from the generating assets owned by OVEC. Duke Energy Ohio sought deferral authority for net costs incurred from April 1, 2017, until the new rates under Rider PSR were put into effect. On April 13, 2018, Duke Energy Ohio filed a Motion to consolidate this proceeding with several other cases currently pending before the PUCO. Also, on April 13, 2018, Duke Energy Ohio, along with certain intervenors, filed a Stipulation with the PUCO resolving numerous issues including those related to Rider PSR. The Stipulation activated Rider PSR for recovery of net costs incurred from January 1, 2018, through May 2025. On December 19, 2018, the PUCO approved the Stipulation without material modification. The PSR rider became effective April 1, 2019. Several parties, including the OCC, filed applications for rehearing. On February 6, 2019, the PUCO granted the parties rehearing. The PUCO issued its Second Entry on Rehearing on July 17, 2019, upholding its December 19, 2018, order and denying all assignments of error raised by the non-stipulating parties. On October 11, 2019, the OCC filed its Third Application for Rehearing arguing the PUCO erred in finding OCC's Second Application for Rehearing as improper. Duke Energy Ohio filed its Memorandum Contra on October 21, 2019. The PUCO denied OCC's Third Application for Rehearing as a matter of law. On September 13, 2019, Interstate Gas Supply/Retail Supply Association filed appeals to the Ohio Supreme Court claiming the PUCO's order was in error because it approved unsupported charges to competitive suppliers and cost subsidies shopping customers pay for non-shopping customers. On September 16, 2019, the OCC filed an appeal challenging the PUCO's approval of OVEC recovery through Rider PSR alleging the FPA pre-empts the commission's jurisdiction and that the record does not support finding that Rider PSR results in a limitation on shopping. Appellant briefs were filed on January 6, 2020. Appellee briefs will be due March 16, 2020. Duke Energy Ohio cannot predict the outcome of this matter.

On July 23, 2019, an Ohio bill was signed into law that became effective January 1, 2020. Among other things, the bill allows for recovery of prudently incurred costs, net of any revenues, for Ohio investor-owned utilities that are participants under the OVEC power agreement. The recovery shall be through a non-bypassable rider that is to replace any existing recovery mechanism approved by the PUCO and will remain in place through 2030. The amounts recoverable from customers will be subject to an annual cap, with incremental costs that exceed such cap eligible for deferral and recovery subject to review. See Note 18 for additional discussion of Duke Energy Ohio's ownership interest in OVEC.

Tax Act – Ohio

On July 25, 2018, Duke Energy Ohio filed an application to establish a new rider to implement the benefits of the Tax Act for electric distribution customers. The new rider will flow through to customers the benefit of the lower statutory federal tax rate from 35% to 21% since January 1, 2018, all future benefits of the lower tax rates and a full refund of deferred income taxes collected at the higher tax rates in prior years. Deferred income taxes subject to normalization rules will be refunded consistent with federal law and deferred income taxes not subject to normalization rules will be refunded over a 10-year period. Duke Energy Ohio's transmission rates reflect lower federal income tax but guidance from FERC on amortization of both protected and unprotected transmission-related EDITs is still pending. On October 24, 2018, the PUCO issued a Finding and Order that, among other things, directed all utilities over which the commission has ratemaking authority to file an application to pass the benefits of the Tax Act to customers by January 1, 2019, unless otherwise exempted or directed by the PUCO. Duke Energy Ohio's July 25, 2018, filing for electric distribution operations is consistent with the commission's October 24, 2018, Finding and Order and no further action is needed. On February 20, 2019, the PUCO approved the application without material modification. Rates became effective March 1, 2019.

On December 21, 2018, Duke Energy Ohio filed an application to change its base rates and establish a new rider to implement the benefits of the Tax Act for natural gas customers. Duke Energy Ohio requested commission approval to implement the changes and rider effective April 1, 2019. The new rider will flow through to customers the benefit of the lower statutory federal tax rate from 35% to 21% since January 1, 2018, all future benefits of the lower tax rates and a full refund of deferred income taxes collected at the higher tax rates in prior years. Deferred income taxes subject to normalization rules will be refunded consistent with federal law and deferred income taxes not subject to normalization rules will be refunded over a 10-year period. The PUCO established a procedural schedule and testimony was filed on July 31, 2019. An evidentiary hearing occurred on August 7, 2019. Initial briefs were filed on September 11, 2019. Reply briefs were filed on September 25, 2019. Duke Energy Ohio cannot predict the outcome of this matter.

Energy Efficiency Cost Recovery

On March 28, 2014, Duke Energy Ohio filed an application for recovery of program costs, lost distribution revenue and performance incentives related to its energy efficiency and peak demand reduction programs. These programs are undertaken to comply with environmental mandates set forth in Ohio law. The PUCO approved Duke Energy Ohio's application but found that Duke Energy Ohio was not permitted to use banked energy savings from previous years in order to calculate the amount of allowed incentive. This conclusion represented a change to the cost recovery mechanism that had been agreed upon by intervenors and approved by the PUCO in previous cases. The PUCO granted the applications for rehearing filed by Duke Energy Ohio and an intervenor. On January 6, 2016, Duke Energy Ohio and the PUCO Staff entered into a stipulation, pending the PUCO's approval, to resolve issues related to performance incentives and the PUCO Staff audit of 2013 costs, among other issues. In December 2015, based upon the stipulation, Duke Energy Ohio re-established approximately \$20 million of the revenues that had been previously reversed. On October 26, 2016, the PUCO issued an order approving the stipulation without modification. In December 2016, the PUCO granted the intervenors request for rehearing for the purpose of further review. On April 10, 2019, the PUCO issued an Entry on Rehearing denying the rehearing applications.

On June 15, 2016, Duke Energy Ohio filed an application for approval of a three-year energy efficiency and peak demand reduction portfolio of programs. A stipulation and modified stipulation were filed on December 22, 2016, and January 27, 2017, respectively. Under the terms of the stipulations, which included support for deferral authority of all costs and a cap on shared savings incentives, Duke Energy Ohio has offered its energy efficiency and peak demand reduction programs throughout 2017. On February 3, 2017, Duke Energy Ohio filed for deferral authority of its costs incurred in 2017 in respect of its proposed energy efficiency and peak demand reduction portfolio. On September 27, 2017, the PUCO issued an order approving a modified stipulation. The modifications impose an annual cap of approximately \$38 million on program costs and shared savings incentives combined, but allowed for Duke Energy Ohio to file for a waiver of costs in excess of the cap in 2017. The PUCO approved the waiver request for 2017 up to a total cost of \$56 million. On November 21, 2017, the PUCO granted Duke Energy Ohio's and intervenor's applications for rehearing of the September 27, 2017, order. On January 10, 2018, the PUCO denied the OCC's application for rehearing of the PUCO order granting Duke Energy Ohio's waiver request; however, a decision on Duke Energy Ohio's application for rehearing remains pending. On October 15, 2019, the Ohio Supreme Court issued an Opinion regarding a similar cap on energy efficiency imposed by the PUCO on Ohio Edison Company finding the PUCO lacked statutory authority to impose a cap on cost recovery. On December 9, 2019, and in response to recent changes to Ohio Law, the OCC filed a motion to eliminate shared savings from Duke Energy Ohio's energy efficiency calculation beginning in 2020. Duke Energy Ohio filed a memorandum contra and a notice of additional authority on December 16, 2019, arguing OCC's interpretation is incorrect and that the commission should amend its September 27, 2017 order to comply with recent precedent. Duke Energy Ohio cannot predict the outcome of this matter.

2014 Electric Security Plan

On May 30, 2018, the PUCO approved an extension of Duke Energy Ohio's then-current ESP, including all terms and conditions thereof, excluding an extension of Duke Energy Ohio's Distribution Capital Investment Rider. Following rehearing, on July 25, 2018, the PUCO granted the request and allowed a continuing cap on recovery under Rider DCI. The orders were upheld on rehearing requested by the Ohio Manufacturers' Association (OMA) and OCC. The time period for parties to file for rehearing or appeal has expired.

In 2018, the OMA and OCC filed separate appeals of PUCO's approval of Duke Energy Ohio's ESP with the Ohio Supreme Court, challenging PUCO's approval of Duke Energy Ohio's Rider PSR as a placeholder and its Rider DCI to recover incremental revenue requirement for distribution capital since Duke Energy Ohio's last base rate case. The Ohio Supreme Court issued an order on March 13, 2019, for the appellants to show cause why the appeals should not be dismissed as moot in light of the commission's approval of Duke Energy Ohio's current ESP. The OCC and OMA made the requested filings on March 20, 2019, and Duke Energy Ohio filed its response on March 27, 2019. Subsequent to OCC and OMA making the requested filings, the Ohio Supreme Court dismissed the appeals as moot on May 8, 2019.

Natural Gas Pipeline Extension

Duke Energy Ohio is proposing to install a new natural gas pipeline (the Central Corridor Project) in its Ohio service territory to increase system reliability and enable the retirement of older infrastructure. Duke Energy Ohio currently estimates the pipeline development costs and construction activities will range from \$163 million to \$245 million in direct costs (excluding overheads and AFUDC). On January 20, 2017, Duke Energy Ohio filed an amended application with the Ohio Power Siting Board (OPSB) for approval of one of two proposed routes. A public hearing was held on June 15, 2017. In April 2018, Duke Energy Ohio filed a motion with OPSB to establish a procedural schedule and filed supplemental information supporting its application. On December 18, 2018, the OPSB established a procedural schedule that included a local public hearing on March 21, 2019. An evidentiary hearing began on April 9, 2019, and concluded on April 11, 2019. Briefs were filed on May 13, 2019, and reply briefs were filed on June 10, 2019. On November 21, 2019, the OPSB approved Duke Energy Ohio's application subject to 41 conditions on construction. Applications for rehearing were filed by several stakeholders on December 23, 2019, arguing that the OPSB approval was incorrect. Duke Energy Ohio filed a memorandum contra on January 2, 2020. On January 17, 2020, the OPSB granted rehearing for the purpose of further consideration. Construction of the pipeline extension is expected to be completed before the 2021/2022 winter season. Duke Energy Ohio cannot predict the outcome of this matter.

2012 Natural Gas Rate Case/MGP Cost Recovery

As part of its 2012 natural gas base rate case, Duke Energy Ohio has approval to defer and recover costs related to environmental remediation at two sites (East End and West End) that housed former MGP operations. Duke Energy Ohio has made annual applications for recovery of these deferred costs. Duke Energy Ohio has collected approximately \$55 million in environmental remediation costs between 2009 through 2012 through a separate rider, Rider MGP, which is currently suspended. Duke Energy Ohio has made annual applications with the PUCO to recover its incremental remediation costs consistent with the PUCO's directive in Duke Energy Ohio's 2012 natural gas rate case. To date, the PUCO has not ruled on Duke Energy Ohio's annual applications for the calendar years 2013 through 2017. On September 28, 2018, the staff of the PUCO issued a report recommending a disallowance of approximately \$12 million of the \$26 million in MGP remediation costs incurred between 2013 through 2017 that staff believes are not eligible for recovery. Staff interprets the PUCO's 2012 Order granting Duke Energy Ohio recovery of MGP remediation as limiting the recovery to work directly on the East End and West End sites. On October 30, 2018, Duke Energy Ohio filed reply comments objecting to the staff's recommendations and explaining, among other things, the obligation Duke Energy Ohio has under Ohio law to remediate all areas impacted by the former MGPs and not just physical property that housed the former plants and equipment. To date, the PUCO has not ruled on Duke Energy Ohio's applications. On March 29, 2019, Duke Energy Ohio filed its annual application to recover incremental remediation expense for the calendar year 2018 seeking recovery of approximately \$20 million in remediation costs. On July 12, 2019, the staff recommended a disallowance of approximately \$11 million for work that staff believes occurred in areas not authorized for recovery. Additionally, staff recommended that any discussion pertaining to Duke Energy Ohio's recovery of ongoing MGP costs should be directly tied to or netted against insurance proceeds collected by Duke Energy Ohio. An evidentiary hearing began on November 18, 2019, and concluded November 21, 2019. Initial briefs were filed on January 17, 2020, and reply briefs were filed on February 14, 2020. Duke Energy Ohio cannot predict the outcome of this matter.

The 2012 PUCO order also contained conditional deadlines for completing the MGP environmental investigation and remediation costs at the MGP sites. Subsequent to the order, the deadline was extended to December 31, 2019. On May 10, 2019, Duke Energy Ohio filed an application requesting a continuation of its existing deferral authority for MGP remediation and investigation that must occur after December 31, 2019. On September 13, 2019, intervenor comments were filed opposing Duke Energy Ohio's request for continuation of existing deferral authority and on October 2, 2019, Duke Energy Ohio filed reply comments. Duke Energy Ohio cannot predict the outcome of this matter.

Duke Energy Kentucky Natural Gas Base Rate Case

On August 31, 2018, Duke Energy Kentucky filed an application with the KPSC requesting an increase in natural gas base rates of approximately \$11 million, an approximate 11.1% average increase across all customer classes. The increase was net of approximately \$5 million in annual savings as a result of the Tax Act. The drivers for this case were capital invested since Duke Energy Kentucky's last rate case in 2009. Duke Energy Kentucky also sought implementation of a Weather Normalization Adjustment Mechanism, amortization of regulatory assets and to implement the impacts of the Tax Act, prospectively. On January 30, 2019, Duke Energy Kentucky entered into a settlement agreement with the Attorney General of Kentucky, the only intervenor in the case. The settlement provided for an approximate \$7 million increase in natural gas base revenue, a return on equity of 9.7% and approval of the proposed Weather Normalization Mechanism. A hearing was held on February 5, 2019. The commission issued its order approving the settlement without material modification on March 27, 2019. Revised customer rates were effective April 1, 2019.

Duke Energy Kentucky Electric Base Rate Case

On September 3, 2019, Duke Energy Kentucky filed a rate case with the KPSC requesting an increase in electric base rates of approximately \$46 million, which represents an approximate 12.5% increase across all customer classes. The request for rate increase is driven by increased investment in utility plant since the last electric base rate case in 2017. Duke Energy Kentucky seeks to implement a Storm Deferral Mechanism that will enable Duke Energy Kentucky to defer actual costs incurred for major storms that are over or under amounts in base rates. In response to large customers' desire to have access to renewable resources, Duke Energy Kentucky is proposing a Green Source Advantage tariff designed for those large customers that wish to invest in renewable energy resources to meet sustainability goals. Duke Energy Kentucky is proposing an electric vehicle (EV) infrastructure pilot and modest incentives to assist customers in investing in EV technologies. Additionally, Duke Energy Kentucky is proposing to build an approximate 3.4 MW distribution battery energy storage system to be attached to Duke Energy Kentucky's distribution system providing frequency regulation and enhanced reliability to Kentucky customers. The commission issued a procedural schedule with two rounds of discovery and opportunities for intervenor and rebuttal testimony. The Kentucky Attorney General filed its testimony recommending an increase of approximately \$26 million. On January 31, 2020, Duke Energy Kentucky filed rebuttal testimony updating its rate increase calculations to approximately \$44 million. Hearings began on February 19, 2020. Duke Energy Kentucky anticipates that rates will go into effect in the second quarter of 2020. Duke Energy Kentucky cannot predict the outcome of this matter.

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FINANCIAL STATEMENTS

REGULATORY MATTERS

Regional Transmission Organization Realignment

Duke Energy Ohio, including Duke Energy Kentucky, transferred control of its transmission assets from MISO to PJM, effective December 31, 2011. The PUCO approved a settlement related to Duke Energy Ohio's recovery of certain costs of the RTO realignment via a non-bypassable rider. Duke Energy Ohio is allowed to recover all MISO Transmission Expansion Planning (MTEP) costs directly or indirectly charged to Ohio customers. The KPSC also approved a request to effect the RTO realignment, subject to a commitment not to seek double recovery in a future rate case of the transmission expansion fees that may be charged by MISO and PJM in the same period or overlapping periods.

The following table provides a reconciliation of the beginning and ending balance of Duke Energy Ohio's recorded liability for its exit obligation and share of MTEP costs recorded in Other within Current Liabilities and Other Noncurrent Liabilities on the Consolidated Balance Sheets. The retail portions of MTEP costs billed by MISO are recovered by Duke Energy Ohio through a non-bypassable rider. As of December 31, 2019, and 2018, \$40 million and \$43 million, respectively, are recorded in Regulatory assets on Duke Energy Ohio's Consolidated Balance Sheets.

(in millions)	December 31, 2018	Provisions/ Adjustments	Cash Reductions	December 31, 2019
Duke Energy Ohio	\$ 58	\$ —	\$ (4)	\$ 54

Duke Energy Indiana

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Indiana's Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays	Recovery/Refund
	2019	2018	a Return	Period Ends
Regulatory Assets^(a)				
AROs – coal ash	\$ 529	\$ 450		(b)
Accrued pension and OPEB	243	222		(f)
Deferred fuel and purchased power	—	40		2020
Hedge costs deferrals	23	24		(b)
DSM/EE	—	14	(e)	(e)
AMI ^(c)	18	18	Yes	(b)
Retired generation facilities ^(c)	49	57	Yes	2026
PISCC and deferred operating expenses ^(c)	246	233	Yes	(b)
Vacation accrual	12	11		2020
Other	52	88		(b)
Total regulatory assets	1,172	1,157		
Less: current portion	90	175		
Total noncurrent regulatory assets	\$ 1,082	\$ 982		
Regulatory Liabilities^(a)				
Net regulatory liability related to income taxes	\$ 1,008	\$ 1,009		(b)
Costs of removal	599	628		(d)
Accrued pension and OPEB	90	67		(f)
Amounts to be refunded to customers	—	1		2020
Other	43	42		(b)
Total regulatory liabilities	1,740	1,747		
Less: current portion	55	25		
Total noncurrent regulatory liabilities	\$ 1,685	\$ 1,722		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Included in rate base.
(d) Refunded over the life of the associated assets.
(e) Includes incentives on DSM/EE investments and is recovered through a tracker mechanism over a two-year period.
(f) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 23 for additional detail.

2019 Indiana Rate Case

On July 2, 2019, Duke Energy Indiana filed a general rate case with the IURC, its first general rate case in Indiana in 16 years, for a rate increase for retail customers of approximately \$395 million. The request for rate increase is driven by strategic investments to generate cleaner electricity, improve reliability and serve a growing customer base. The request is premised upon a Duke Energy Indiana rate base of \$10.2 billion as of December 31, 2018, and adjusted for projected changes through December 31, 2020. On September 9, 2019, Duke Energy Indiana revised its revenue request from \$395 million to \$393 million and filed updated testimony for the Retail Rate Case. The updated filing reflects a clarification in the presentation of Utility Receipts Tax, a \$2 million reduction in the revenue requirement for revenues that will remain in riders and changes to allocation of revenue requirements within rate classes. The Utility Receipts Tax is currently embedded in base rates and rider rates. The proposed treatment is to include the Utility Receipts Tax as a line item on the customer bill rather than included in rates. The request is an approximate 15% increase in retail revenues and approximately 17% when including estimated Utility Receipts Tax. The rebuttal case, filed on December 4, 2019, updated the requested revenue requirement to result in a 15.6% or \$396 million average retail rate increase, including the impacts of the Utility Receipts Tax. The commission determined to take two issues out of the rate case and place them in separate subdocket proceedings due to the complexity of the rate case. The commission moved the request for electric transportation pilot and future coal ash recovery issues to separate subdockets. Coal ash expenditures prior to 2019 are still included in the rate case. Hearings concluded on February 7, 2020 and rates are expected to be effective by mid-2020. Duke Energy Indiana cannot predict the outcome of these matters.

Edwardsport IGCC Plant

On September 20, 2018, Duke Energy Indiana, the Indiana Office of Utility Consumer Counselor, the Duke Industrial Group and Nucor Steel – Indiana entered into a settlement agreement to resolve IGCC ratemaking issues for calendar years 2018 and 2019. The agreement will remain in effect until new rates are established in Duke Energy Indiana's next base rate case, which was filed on July 2, 2019, with rates to be effective in mid-2020. An evidentiary hearing was held in December 2018, and on June 5, 2019, the IURC issued an order approving the 2018 Settlement Agreement.

Piedmont

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Piedmont's Consolidated Balance Sheets.

	December 31,		Earns/Pays	Recovery/Refund
(in millions)	2019	2018	a Return	Period Ends
Regulatory Assets ^(a)				
AROs – nuclear and other	16	19		(d)
Accrued pension and OPEB ^(c)	90	99	Yes	(f)
Vacation accrual	12	12		
Derivatives – natural gas supply contracts ^(e)	117	141		
Deferred pipeline integrity costs ^(c)	62	51	Yes	(b)
Amounts due from customers	36	24	Yes	(b)
Other	30	11		(b)
Total regulatory assets	363	357		
Less: current portion	73	54		
Total noncurrent regulatory assets	\$ 290	\$ 303		
Regulatory Liabilities ^(a)				
Net regulatory liability related to income taxes	\$ 555	\$ 579		(b)
Costs of removal	574	564		(d)
Accrued pension and OPEB ^(c)	3	1	Yes	(f)
Amounts to be refunded to customers	34	33	Yes	(b)
Other	46	41		(b)
Total regulatory liabilities	1,212	1,218		
Less: current portion	81	37		
Total noncurrent regulatory liabilities	\$ 1,131	\$ 1,181		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Included in rate base.
(d) Recovery over the life of the associated assets.
(e) Balance will fluctuate with changes in the market. Current contracts extend into 2031.
(f) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 23 for additional detail.

North Carolina Integrity Management Rider Filing

On April 30, 2019, Piedmont filed a petition under the IMR mechanism to update rates, based on the eligible capital investments closed to integrity and safety projects over the six-month period ending March 31, 2019. The NCUC approved the petition on May 29, 2019, and rates became effective June 1, 2019. The effect of the update was an increase to annual revenues of approximately \$9 million. These revenues, along with eligible spending for the three months ended June 30, 2019, were subsequently included in base rates effective November 1, 2019, as part of the 2019 North Carolina Rate Case.

On October 31, 2019, Piedmont filed a petition under the IMR mechanism to update rates, based on the eligible capital investments closed to integrity and safety projects over the three-month period ending September 30, 2019. The NCUC approved the petition on December 3, 2019, and rates became effective December 1, 2019. The effect of the update was an increase to annual revenues of approximately \$11 million.

Tennessee Integrity Management Rider Filing

In November 2019, Piedmont filed a petition with the TPUC under the IMR mechanism to collect an additional \$4 million in annual revenues, effective January 2020, based on the eligible capital spending on integrity and safety projects over the 12-month period ending October 31, 2019. A procedural schedule has not yet been set for this matter. Piedmont cannot predict the outcome of this matter.

2019 North Carolina Rate Case

On April 1, 2019, Piedmont filed an application with the NCUC, its first general rate case in North Carolina in six years, for a rate increase for retail customers of approximately \$83 million, which represents an approximate 9% increase in retail revenues. The request for rate increase was driven by significant infrastructure upgrade investments (plant additions) since the last general rate case through June 30, 2019, offset by savings that customers will begin receiving due to federal and state tax reform. Approximately half of the plant additions being included in rate base are categories of plant investment not covered under the IMR mechanism, which was originally approved as part of the 2013 North Carolina Rate Case.

On August 13, 2019, Piedmont, the Public Staff, and two groups representing industrial customers filed an Agreement and Stipulation Settlement resolving issues in the base rate proceeding, which included a return on equity of 9.7% and a capital structure of 52% equity and 48% debt. The North Carolina Attorney General's Office did not support the settlement. Other major components of the Stipulation included:

- An annual increase in revenues of \$109 million before consideration of riders associated with federal and state tax reform;
- A decrease through a rider mechanism of \$23 million per year to return unprotected federal EDIT over a five-year period and deferred revenues related to the federal rate reduction of \$37 million to be returned over one year;
- A decrease through a rider mechanism of \$21 million per year related to reductions in the North Carolina state income tax rate to be returned over a three-year period;
- An overall cap on net revenue increase of \$83 million. This will impact Piedmont beginning November 1, 2022, only if the company does not file another general rate case in the interim;
- Continuation of the IMR mechanism; and
- Establishment of a new deferral mechanism for certain Distribution Integrity Management Program (DIMP) operations and maintenance expenses incurred effective November 1, 2019, and thereafter.

An evidentiary hearing began on August 19, 2019. On October 31, 2019, the NCUC approved the Stipulation and the revised customer rates were effective November 1, 2019.

OTHER REGULATORY MATTERS

Atlantic Coast Pipeline, LLC

On September 2, 2014, Duke Energy, Dominion Energy, Inc. (Dominion), Piedmont and Southern Company Gas announced the formation of Atlantic Coast Pipeline, LLC (ACP) to build and own the proposed Atlantic Coast Pipeline (ACP pipeline), an approximately 600-mile interstate natural gas pipeline running from West Virginia to North Carolina. The ACP pipeline is designed to meet, in part, the needs identified by Duke Energy Carolinas, Duke Energy Progress and Piedmont. Dominion will be responsible for building and operating the ACP pipeline and holds a leading ownership percentage in ACP of 48%. Duke Energy owns a 47% interest, which is accounted for as an equity method investment through its Gas Utilities and Infrastructure segment. Southern Company Gas maintains a 5% interest. See Notes 13 and 18 for additional information related to Duke Energy's ownership interest. Duke Energy Carolinas, Duke Energy Progress and Piedmont, among others, will be customers of the pipeline. Purchases will be made under several 20-year supply contracts, subject to state regulatory approval.

In 2018, the FERC issued a series of Notices to Proceed, which authorized the project to begin certain construction-related activities along the pipeline route, including supply header and compressors. On May 11, 2018, and October 19, 2018, FERC issued Notices to Proceed allowing full construction activities in all areas of West Virginia except in the Monongahela National Forest. On July 24, 2018, FERC issued a Notice to Proceed allowing full construction activities along the project route in North Carolina. On October 19, 2018, the conditions to effectiveness of the Virginia 401 water quality certification were satisfied and, following receipt of the Virginia 401 certification, ACP filed a request for FERC to issue a Notice to Proceed with full construction activities in Virginia. Due to legal challenges not directly related to the request for a Notice to Proceed in Virginia, this request is still pending.

ACP is the subject of challenges in state and federal courts and agencies, including, among others, challenges of the project's biological opinion (BiOp) and incidental take statement (ITS), crossings of the Blue Ridge Parkway, the Appalachian Trail, and the Monongahela and George Washington National Forests, the project's U.S. Army Corps of Engineers (USACE) 404 permit, the project's air permit for a compressor station at Buckingham, Virginia, the FERC Environmental Impact Statement order and the FERC order approving the Certificate of Public Convenience and Necessity. Each of these challenges alleges non-compliance on the part of federal and state permitting authorities and adverse ecological consequences if the project is permitted to proceed. Since December 2018, notable developments in these challenges include a stay in December 2018 issued by the U.S. Court of Appeals for the Fourth Circuit (Fourth Circuit) and the same court's July 26, 2019, vacatur of the project's BiOp and ITS (which stay and subsequent vacatur halted most project construction activity), a Fourth Circuit decision vacating the project's permits to cross the Monongahela and George Washington National Forests and the Appalachian Trail, the Fourth Circuit's remand to USACE of ACP's Huntington District 404 verification, the Fourth Circuit's remand to the National Park Service of ACP's Blue Ridge Parkway right-of-way and the most recent vacatur of the air permit for a compressor station at Buckingham, Virginia. ACP is vigorously defending these challenges and coordinating with the federal and state authorities which are the direct parties to the challenges. The Solicitor General of the United States and ACP filed petitions for certiorari to the Supreme Court of the United States on June 25, 2019, regarding the Appalachian Trail crossing and certiorari was granted on October 4, 2019. The Supreme Court hearing is scheduled for February 24, 2020, and a ruling is expected in the second quarter of 2020. ACP is also evaluating possible legislative and other remedies to this issue.

In anticipation of the Fourth Circuit's vacatur of the BiOp and ITS, ACP and the FWS commenced work in mid-May of 2019 to set the basis for a reissued BiOp and ITS. On February 10, 2020, FERC issued a letter to FWS requesting the re-initiation of formal consultation in support of reissuing the BiOp and ITS. ACP continues coordinating and working with FWS and other parties in preparation for a reissuance of the BiOp and ITS.

ACP triggered the Adverse Government Actions (AGA) clause of its agreements with its customers in December 2019. Formal negotiations have commenced regarding pricing and construction timing, among other items, and are expected to be finalized in the first quarter of 2020. The results of these negotiations will directly impact the expected future cash flows of this project.

Given the legal challenges and ongoing discussions with customers, ACP expects mechanical completion of the full project in late 2021 with in-service likely in the first half of 2022.

The delays resulting from the legal challenges described above have also impacted the cost for the project. Project cost is approximately \$8 billion, excluding financing costs. This estimate is based on the current facts available around construction costs and timelines, and is subject to future changes as those facts develop. Abnormal weather, work delays (including delays due to judicial or regulatory action) and other conditions may result in cost or schedule modifications, a suspension of AFUDC for ACP and/or impairment charges potentially material to Duke Energy's cash flows, financial position and results of operations.

Duke Energy's investment in ACP was \$1.2 billion at December 31, 2019. Duke Energy evaluated this investment for impairment at December 31, 2019, and determined that fair value approximated carrying value and therefore no impairment was necessary. Duke Energy also has a guarantee agreement supporting its share of the ACP revolving credit facility. Duke Energy's maximum exposure to loss under the terms of the guarantee is \$827 million, which represents 47% of the outstanding borrowings under the credit facility as of December 31, 2019. See Note 13 for additional information.

Constitution Pipeline Company, LLC

Duke Energy owned a 24% ownership interest in Constitution, which is accounted for as an equity method investment. Constitution was a natural gas pipeline project slated to transport natural gas supplies from the Marcellus supply region in northern Pennsylvania to major northeastern markets. The pipeline was to be constructed and operated by Williams Partners L.P., which had a 41% ownership share. The remaining interest was held by Cabot Oil and Gas Corporation and WGL Holdings, Inc. In December 2014, Constitution received approval from the FERC to construct and operate the proposed pipeline. However, since April 2016, Constitution had stopped construction and discontinued capitalization of future development costs due to permitting delays and adverse rulings by regulatory agencies and courts.

In late 2019, Constitution determined that its principal shipper would not agree to an amended precedent agreement. Without such an amendment, the project would no longer be viable and, as of February 5, 2020, the Constitution partners formally resolved to initiate the dissolution of Constitution, and to terminate the Constitution Pipeline project. In the fourth quarter of 2019, Duke Energy recorded an OTTI of \$25 million related to Constitution within Equity in earnings of unconsolidated affiliates on Duke Energy's Consolidated Statements of Income, resulting in the full write-down of Duke Energy's investment in Constitution. See Notes 13 and 18 for additional information related to ownership interest and carrying value of the investment.

Potential Coal Plant Retirements

The Subsidiary Registrants periodically file IRPs with their state regulatory commissions. The IRPs provide a view of forecasted energy needs over a long term (10 to 20 years) and options being considered to meet those needs. IRPs filed by the Subsidiary Registrants included planning assumptions to potentially retire certain coal-fired generating facilities in North Carolina and Indiana earlier than their current estimated useful lives. Duke Energy continues to evaluate the potential need to retire these coal-fired generating facilities earlier than the current estimated useful lives and plans to seek regulatory recovery for amounts that would not be otherwise recovered when any of these assets are retired.

FINANCIAL STATEMENTS

REGULATORY MATTERS

The table below contains the net carrying value of generating facilities planned for retirement or included in recent IRPs as evaluated for potential retirement. Dollar amounts in the table below are included in Net property, plant and equipment on the Consolidated Balance Sheets as of December 31, 2019, and exclude capitalized asset retirement costs.

	Capacity (in MW)	Remaining Net Book Value (in millions)
Duke Energy Carolinas		
Allen Steam Station Units 1-3 ^(a)	585	\$ 152
Duke Energy Indiana		
Gallagher Units 2 and 4 ^(b)	280	114
Gibson Units 1-5 ^(c)	3,132	1,697
Cayuga Units 1-2 ^(c)	1,005	974
Total Duke Energy	\$ 5,002	\$ 2,937

- (a) Duke Energy Carolinas will retire Allen Steam Station Units 1 through 3 by December 31, 2024, as part of the resolution of a lawsuit involving alleged New Source Review violations.
- (b) Duke Energy Indiana committed to either retire or stop burning coal at Gallagher Units 2 and 4 by December 31, 2022, as part of the 2016 settlement of Edwardsport IGCC matters.
- (c) On July 1, 2019, Duke Energy Indiana filed its 2018 IRP with the IURC. The 2018 IRP included scenarios evaluating the potential retirement of coal-fired generating units at Gibson and Cayuga. The rate case filed July 2, 2019, includes proposed depreciation rates reflecting retirement dates from 2026 to 2038.

Duke Energy continues to evaluate the potential need to retire generating facilities earlier than the current estimated useful lives, and plans to seek regulatory recovery, as necessary, for amounts that would not be otherwise recovered when any of these assets are retired. However, such recovery, including recovery of carrying costs on remaining book values, could be subject to future approvals and therefore cannot be assured.

Duke Energy Carolinas and Duke Energy Progress are evaluating the potential for coal-fired generating unit retirements with a net carrying value of approximately \$721 million and \$1.2 billion, respectively, included in Net property, plant and equipment on the Consolidated Balance Sheets as of December 31, 2019.

Refer to the "Western Carolinas Modernization Plan" discussion above for details of Duke Energy Progress' planned retirements.

5. COMMITMENTS AND CONTINGENCIES

INSURANCE

General Insurance

The Duke Energy Registrants have insurance and reinsurance coverage either directly or through indemnification from Duke Energy's captive insurance company, Bison, and its affiliates, consistent with companies engaged in similar commercial operations with similar type properties. The Duke Energy Registrants' coverage includes (i) commercial general liability coverage for liabilities arising to third parties for bodily injury and property damage; (ii) workers' compensation; (iii) automobile liability coverage; and (iv) property coverage for all real and personal property damage. Real and personal property damage coverage excludes electric transmission and distribution lines, but includes damages arising from boiler and machinery breakdowns, earthquakes, flood damage and extra expense, but not outage or replacement power coverage. All coverage is subject to certain deductibles or retentions, sublimits, exclusions, terms and conditions common for companies with similar types of operations. The Duke Energy Registrants self-insure their electric transmission and distribution lines against loss due to storm damage and other natural disasters. As discussed further in Note 4, Duke Energy Florida maintains a storm damage reserve and has a regulatory mechanism to recover the cost of named storms on an expedited basis.

The cost of the Duke Energy Registrants' coverage can fluctuate from year to year reflecting claims history and conditions of the insurance and reinsurance markets.

In the event of a loss, terms and amounts of insurance and reinsurance available might not be adequate to cover claims and other expenses incurred. Uninsured losses and other expenses, to the extent not recovered by other sources, could have a material effect on the Duke Energy Registrants' results of operations, cash flows or financial position. Each company is responsible to the extent losses may be excluded or exceed limits of the coverage available.

Nuclear Insurance

Duke Energy Carolinas owns and operates McGuire and Oconee and operates and has a partial ownership interest in Catawba. McGuire and Catawba each have two reactors. Oconee has three reactors. The other joint owners of Catawba reimburse Duke Energy Carolinas for certain expenses associated with nuclear insurance per the Catawba joint owner agreements.

Duke Energy Progress owns and operates Robinson, Brunswick and Harris. Robinson and Harris each have one reactor. Brunswick has two reactors.

Duke Energy Florida owns Crystal River Unit 3, which permanently ceased operation in 2013 and reached a SAFSTOR condition in January 2018 after the successful transfer of all used nuclear fuel assemblies to an on-site dry cask storage facility.

In the event of a loss, terms and amounts of insurance available might not be adequate to cover property damage and other expenses incurred. Uninsured losses and other expenses, to the extent not recovered by other sources, could have a material effect on Duke Energy Carolinas', Duke Energy Progress' and Duke Energy Florida's results of operations, cash flows or financial position. Each company is responsible to the extent losses may be excluded or exceed limits of the coverage available.

Nuclear Liability Coverage

The Price-Anderson Act requires owners of nuclear reactors to provide for public nuclear liability protection per nuclear incident up to a maximum total financial protection liability. The maximum total financial protection liability, which is approximately \$13.9 billion, is subject to change every five years for inflation and for the number of licensed reactors. Total nuclear liability coverage consists of a combination of private primary nuclear liability insurance coverage and a mandatory industry risk-sharing program to provide for excess nuclear liability coverage above the maximum reasonably available private primary coverage. The U.S. Congress could impose revenue-raising measures on the nuclear industry to pay claims.

Primary Liability Insurance

Duke Energy Carolinas and Duke Energy Progress have purchased the maximum reasonably available private primary nuclear liability insurance as required by law, which is \$450 million per station. Duke Energy Florida has purchased \$100 million primary nuclear liability insurance in compliance with the law.

Excess Liability Program

This program provides \$13.5 billion of coverage per incident through the Price-Anderson Act's mandatory industrywide excess secondary financial protection program of risk pooling. This amount is the product of potential cumulative retrospective premium assessments of \$138 million times the current 98 licensed commercial nuclear reactors in the U.S. Under this program, licensees could be assessed retrospective premiums to compensate for public nuclear liability damages in the event of a nuclear incident at any licensed facility in the U.S. Retrospective premiums may be assessed at a rate not to exceed \$20.5 million per year per licensed reactor for each incident. The assessment may be subject to state premium taxes.

Nuclear Property and Accidental Outage Coverage

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are members of Nuclear Electric Insurance Limited (NEIL), an industry mutual insurance company, which provides property damage, nuclear accident decontamination and premature decommissioning insurance for each station for losses resulting from damage to its nuclear plants, either due to accidents or acts of terrorism. Additionally, NEIL provides accidental outage coverage for losses in the event of a major accidental outage at an insured nuclear station.

Pursuant to regulations of the NRC, each company's property damage insurance policies provide that all proceeds from such insurance be applied, first, to place the plant in a safe and stable condition after a qualifying accident and second, to decontaminate the plant before any proceeds can be used for decommissioning, plant repair or restoration.

Losses resulting from acts of terrorism are covered as common occurrences, such that if terrorist acts occur against one or more commercial nuclear power plants insured by NEIL within a 12-month period, they would be treated as one event and the owners of the plants where the act occurred would share one full limit of liability. The full limit of liability is currently \$3.2 billion. NEIL sublimits the total aggregate for all of their policies for non-nuclear terrorist events to approximately \$1.8 billion.

Each nuclear facility has accident property damage, nuclear accident decontamination and premature decommissioning liability insurance from NEIL with limits of \$1.5 billion, except for Crystal River Unit 3. Crystal River Unit 3's limit is \$50 million and is on an actual cash value basis. All nuclear facilities except for Catawba and Crystal River Unit 3 also share an additional \$1.25 billion nuclear accident insurance limit above their dedicated underlying limit. This shared additional excess limit is not subject to reinstatement in the event of a loss. Catawba has a dedicated \$1.25 billion of additional nuclear accident insurance limit above its dedicated underlying limit. Catawba and Oconee also have an additional \$750 million of non-nuclear accident property damage limit. All coverages are subject to sublimits and significant deductibles.

NEIL's Accidental Outage policy provides some coverage, similar to business interruption, for losses in the event of a major accident property damage outage of a nuclear unit. Coverage is provided on a weekly limit basis after a significant waiting period deductible and at 100% of the applicable weekly limits for 52 weeks and 80% of the applicable weekly limits for up to the next 110 weeks. Coverage is provided until these applicable weekly periods are met, where the accidental outage policy limit will not exceed \$490 million for McGuire and Catawba, \$462 million for Brunswick and Harris, \$406 million for Oconee and \$364 million for Robinson. NEIL sublimits the accidental outage recovery up to the first 104 weeks of coverage not to exceed \$328 million from non-nuclear accidental property damage. Coverage amounts decrease in the event more than one unit at a station is out of service due to a common accident. All coverages are subject to sublimits and significant deductibles.

Potential Retroactive Premium Assessments

In the event of NEIL losses, NEIL's board of directors may assess member companies' retroactive premiums of amounts up to 10 times their annual premiums for up to six years after a loss. NEIL has never exercised this assessment. The maximum aggregate annual retrospective premium obligations for Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are \$155 million, \$94 million and \$1 million, respectively. Duke Energy Carolinas' maximum assessment amount includes 100% of potential obligations to NEIL for jointly owned reactors. Duke Energy Carolinas would seek reimbursement from the joint owners for their portion of these assessment amounts.

ENVIRONMENTAL

The Duke Energy Registrants are subject to federal, state and local laws regarding air and water quality, hazardous and solid waste disposal, coal ash and other environmental matters. These laws can be changed from time to time, imposing new obligations on the Duke Energy Registrants. The following environmental matters impact all of the Duke Energy Registrants.

FINANCIAL STATEMENTS

COMMITMENTS AND CONTINGENCIES

Remediation Activities

In addition to the ARO recorded as a result of various environmental regulations, discussed in Note 10, the Duke Energy Registrants are responsible for environmental remediation at various sites. These include certain properties that are part of ongoing operations and sites formerly owned or used by Duke Energy entities. These sites are in various stages of investigation, remediation and monitoring. Managed in conjunction with relevant federal, state and local agencies, remediation activities vary based upon site conditions and location, remediation requirements, complexity and sharing of responsibility. If remediation activities involve joint and several liability provisions, strict liability, or cost recovery or contribution actions, the Duke Energy Registrants could potentially be held responsible for environmental impacts caused by other potentially responsible parties and may also benefit from insurance policies or contractual indemnities that cover some or all cleanup costs. Liabilities are recorded when losses become probable and are reasonably estimable. The total costs that may be incurred cannot be estimated because the extent of environmental impact, allocation among potentially responsible parties, remediation alternatives and/or regulatory decisions have not yet been determined at all sites. Additional costs associated with remediation activities are likely to be incurred in the future and could be significant. Costs are typically expensed as Operation, maintenance and other in the Consolidated Statements of Operations unless regulatory recovery of the costs is deemed probable.

The following tables contain information regarding reserves for probable and estimable costs related to the various environmental sites. These reserves are recorded in Accounts payable within Current Liabilities and Other within Other Noncurrent Liabilities on the Consolidated Balance Sheets.

(in millions)	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Duke Energy Piedmont
Balance at December 31, 2016	\$ 98	\$ 10	\$ 18	\$ 3	\$ 14	\$ 59	\$ 10	\$ 1
Provisions/adjustments	8	3	3	2	2	3	(4)	1
Cash reductions	(25)	(3)	(6)	(2)	(4)	(15)	(1)	—
Balance at December 31, 2017	81	10	15	3	12	47	5	2
Provisions/adjustments	26	3	2	3	(2)	21	1	1
Cash reductions	(30)	(2)	(6)	(2)	(4)	(20)	(1)	(1)
Balance at December 31, 2018	77	11	11	4	6	48	5	2
Provisions/adjustments	33	6	9	2	5	11	—	7
Cash reductions	(52)	(6)	(4)	(2)	(2)	(40)	(1)	(1)
Balance at December 31, 2019	\$ 58	\$ 11	\$ 16	\$ 4	\$ 9	\$ 19	\$ 4	\$ 8

Additional losses in excess of recorded reserves that could be incurred for the stages of investigation, remediation and monitoring for environmental sites that have been evaluated at this time are not material except as presented in the table below.

(in millions)	
Duke Energy	\$ 59
Duke Energy Carolinas	11
Duke Energy Ohio	42
Piedmont	2

LITIGATION

Duke Energy Carolinas and Duke Energy Progress

NCDEQ Closure Litigation

The Coal Ash Act requires CCR surface impoundments in North Carolina to be closed, with the closure method and timing based on a risk ranking classification determined by legislation or state regulators. The NCDEQ previously classified the impoundments at Allen, Belews Creek, Rogers, Marshall, Mayo and Roxboro as low risk. The Coal Ash Act allowed a range of closure options for low risk rated basins. On April 1, 2019, NCDEQ issued a closure determination (NCDEQ's April 1 Order) requiring Duke Energy Carolinas and Duke Energy Progress to excavate all remaining coal ash impoundments at these facilities. On April 26, 2019, Duke Energy Carolinas and Duke Energy Progress filed Petitions for Contested Case Hearings in the Office of Administrative Hearings to challenge NCDEQ's April 1 Order. On May 9, 2019, NCDEQ issued a supplemental order requiring that closure plans be submitted on December 31, 2019, but providing that the corrective action plans are not due until March 31, 2020. Duke Energy Carolinas and Duke Energy Progress filed amended petitions on May 24, 2019, incorporating the May 9, 2019, order.

On December 31, 2019, the parties executed a settlement agreement resolving the closure method for each of these sites. Duke Energy Carolinas and Duke Energy Progress agreed to excavate seven of the nine remaining coal ash basins at these sites with ash moved to on-site lined landfills, including two at Allen, one at Belews Creek, one at Mayo, one at Roxboro, and two at Rogers. At the two remaining basins at Marshall and Roxboro, uncapped basin ash will be excavated and moved to lined landfills. Those portions of the basins at Marshall and Roxboro, which were previously filled with ash and on which permitted facilities were constructed, will not be disturbed and will be closed pursuant to other state regulations. On February 5, 2020, the North Carolina Superior court entered a consent order, after which this litigation was dismissed on February 11, 2020.

Coal Ash Insurance Coverage Litigation

In March 2017, Duke Energy Carolinas and Duke Energy Progress filed a civil action in the North Carolina Superior Court against various insurance providers. The lawsuit seeks payment for coal ash-related liabilities covered by third-party liability insurance policies. The insurance policies were issued between 1971 and 1986 and provide third-party liability insurance for property damage. The civil action seeks damages for breach of contract and indemnification for costs arising from the Coal Ash Act and the EPA CCR rule at 15 coal-fired plants in North Carolina and South Carolina. Despite a stay of the litigation from May 2019 through September 2019 to allow the parties to discuss potential resolution, no resolution was reached, and litigation resumed. In February and March 2020, the Court will hear arguments on numerous cross motions filed by the parties to seek legal determinations concerning, among other issues, the appropriate insurance allocation methods, the trigger of the applicable coverages and several coverage defenses raised by the insurance providers. Trial is scheduled for February 2021. Duke Energy Carolinas and Duke Energy Progress cannot predict the outcome of this matter.

NCDEQ State Enforcement Actions

In the first quarter of 2013, SELC sent notices of intent to sue Duke Energy Carolinas and Duke Energy Progress related to alleged CWA violations from coal ash basins at two coal-fired power plants in North Carolina. The NCDEQ filed enforcement actions against Duke Energy Carolinas and Duke Energy Progress alleging violations of water discharge permits and North Carolina groundwater standards. The cases have been consolidated and are being heard before a single judge in the North Carolina Superior Court.

On August 16, 2013, the NCDEQ filed an enforcement action against Duke Energy Carolinas and Duke Energy Progress related to the remaining coal-fired power plants in North Carolina, alleging violations of the CWA and violations of the North Carolina groundwater standards. Both of these cases have been assigned to the judge handling the enforcement actions discussed above. SELC is representing several environmental groups who have been permitted to intervene in these cases.

The court issued orders in 2016 granting Motions for Partial Summary Judgment for seven of the 14 North Carolina plants with coal ash basins named in the enforcement actions. On February 13, 2017, the court issued an order denying motions for partial summary judgment brought by both the environmental groups and Duke Energy Carolinas and Duke Energy Progress for the remaining seven plants. On March 15, 2017, Duke Energy Carolinas and Duke Energy Progress filed a Notice of Appeal with the North Carolina Court of Appeals to challenge the trial court's order. The parties were unable to reach an agreement at mediation in April 2017 and submitted briefs to the trial court on remaining issues to be tried. On August 1, 2018, the Court of Appeals dismissed the appeal.

Pursuant to the terms of the December 31, 2019, settlement agreement, discussed above, between Duke Energy Carolinas, Duke Energy Progress, NCDEQ and the community groups represented by the SELC, this litigation was dismissed on February 5, 2020, upon entry of the consent order in the North Carolina Superior Court.

Federal Citizens Suits

On June 13, 2016, Roanoke River Basin Association (RRBA) filed a federal citizen suit in the Middle District of North Carolina alleging unpermitted discharges to surface water and groundwater violations at the Mayo Plant. On August 19, 2016, Duke Energy Progress filed a Motion to Dismiss. On April 26, 2017, the court entered an order dismissing four of the claims in the federal citizen suit. Two claims relating to alleged violations of National Pollution Discharge Elimination System (NPDES) permit provisions survived the motion to dismiss, and Duke Energy Progress filed its response on May 10, 2017. Duke Energy Progress and RRBA each filed motions for summary judgment on March 23, 2018.

On May 16, 2017, RRBA filed a federal citizen suit in the U.S. District Court for the Middle District of North Carolina, which asserts two claims relating to alleged violations of NPDES permit provisions at the Roxboro Plant and one claim relating to the use of nearby water bodies. Duke Energy Progress and RRBA each filed motions for summary judgment on April 17, 2018.

On May 8, 2018, on motion from Duke Energy Progress, the court ordered trial in both of the above matters to be consolidated. On April 5, 2019, Duke Energy Progress filed a motion to stay the case following the NCDEQ's April 1 Order. On August 2, 2019, the court ordered that this case is stayed.

On December 5, 2017, various parties filed a federal citizen suit in the U.S. District Court for the Middle District of North Carolina for alleged violations at Duke Energy Carolinas' Belews Creek under the CWA. Duke Energy Carolinas' answer to the complaint was filed on August 27, 2018. On October 10, 2018, Duke Energy Carolinas filed Motions to Dismiss for lack of standing, Motion for Judgment on the Pleadings and Motion to Stay Discovery. On January 9, 2019, the court entered an order denying Duke Energy Carolinas' motion to stay discovery. There has been no ruling on the other pending motions. On April 5, 2019, Duke Energy Carolinas filed a motion to stay the case following the NCDEQ's April 1 Order. On August 2, 2019, the court ordered that this case is stayed.

On December 31, 2019, Duke Energy Carolinas, Duke Energy Progress, the NCDEQ and various community groups including RRBA entered into a comprehensive settlement that, among other things, resolves the method of closure at the Mayo, Roxboro and Belews Creek ash basins. On February 5, 2020, the North Carolina Superior Court entered a consent order confirming the terms of the settlement agreement, upon which RRBA filed stipulations on February 11, 2020 voluntarily dismissing all three of these federal citizen suits with prejudice.

Duke Energy Carolinas

Asbestos-related Injuries and Damages Claims

Duke Energy Carolinas has experienced numerous claims for indemnification and medical cost reimbursement related to asbestos exposure. These claims relate to damages for bodily injuries alleged to have arisen from exposure to or use of asbestos in connection with construction and maintenance activities conducted on its electric generation plants prior to 1985. As of December 31, 2019, there were 123 asserted claims for non-malignant cases with the cumulative relief sought of up to \$32 million and 49 asserted claims for malignant cases with the cumulative relief sought of up to \$16 million. Based on Duke Energy Carolinas' experience, it is expected that the ultimate resolution of most of these claims likely will be less than the amount claimed.

Duke Energy Carolinas has recognized asbestos-related reserves of \$604 million and \$630 million at December 31, 2019, and 2018, respectively. These reserves are classified in Other within Other Noncurrent Liabilities and Other within Current Liabilities on the Consolidated Balance Sheets. These reserves are based upon Duke Energy Carolinas' best estimate for current and future asbestos claims through 2039 and are recorded on an undiscounted basis. In light of the uncertainties inherent in a longer-term forecast, management does not believe they can reasonably estimate the indemnity and medical costs that might be incurred after 2039 related to such potential claims. It is possible Duke Energy Carolinas may incur asbestos liabilities in excess of the recorded reserves.

Duke Energy Carolinas has third-party insurance to cover certain losses related to asbestos-related injuries and damages above an aggregate self-insured retention. Duke Energy Carolinas' cumulative payments began to exceed the self-insurance retention in 2008. Future payments up to the policy limit will be reimbursed by the third-party insurance carrier. The insurance policy limit for potential future insurance recoveries indemnification and medical cost claim payments is \$747 million in excess of the self-insured retention. Receivables for insurance recoveries were \$742 million and \$739 million at December 31, 2019, and 2018, respectively. These amounts are classified in Other within Other Noncurrent Assets and Receivables within Current Assets on the Consolidated Balance Sheets. Duke Energy Carolinas is not aware of any uncertainties regarding the legal sufficiency of insurance claims. Duke Energy Carolinas believes the insurance recovery asset is probable of recovery as the insurance carrier continues to have a strong financial strength rating.

Duke Energy Progress and Duke Energy Florida

Spent Nuclear Fuel Matters

On June 18, 2018, Duke Energy Progress and Duke Energy Florida sued the U.S. in the U.S. Court of Federal Claims for damages incurred for the period 2014 through 2018. The lawsuit claimed the Department of Energy breached a contract in failing to accept spent nuclear fuel under the Nuclear Waste Policy Act of 1982 and asserted damages for the cost of on-site storage in the amount of \$100 million and \$203 million for Duke Energy Progress and Duke Energy Florida, respectively. Discovery is ongoing and a trial is expected to occur in early 2021.

Duke Energy Florida

Fluor Contract Litigation

On January 29, 2019, Fluor filed a breach of contract lawsuit in the U.S. District Court for the Middle District of Florida against Duke Energy Florida related to an EPC agreement for the CC natural gas plant in Citrus County, Florida. Fluor filed an amended complaint on February 13, 2019. Fluor's multicount complaint seeks civil, statutory and contractual remedies related to Duke Energy Florida's \$67 million draw in early 2019, on Fluor's letter of credit and offset of invoiced amounts. Duke Energy Florida moved to dismiss all counts of Fluor's amended complaint, and on April 16, 2019, the court dismissed Fluor's complaint without prejudice. On April 26, 2019, Fluor filed a second amended complaint.

On August 1, 2019, Duke Energy Florida and Fluor reached a settlement to resolve the pending litigation and other outstanding issues related to completing the Citrus County CC. Pursuant to the terms of the settlement, Fluor filed a notice of voluntary dismissal, and on August 27, 2019, the court dismissed the case with prejudice. As a result of the settlement with Fluor, Duke Energy Florida recorded a \$36 million reduction to a prior-year impairment within Impairment charges on Duke Energy's Consolidated Statements of Operations in 2019.

Other Litigation and Legal Proceedings

The Duke Energy Registrants are involved in other legal, tax and regulatory proceedings arising in the ordinary course of business, some of which involve significant amounts. The Duke Energy Registrants believe the final disposition of these proceedings will not have a material effect on their results of operations, cash flows or financial position.

FINANCIAL STATEMENTS

COMMITMENTS AND CONTINGENCIES

The table below presents recorded reserves based on management's best estimate of probable loss for legal matters, excluding asbestos-related reserves. Reserves are classified on the Consolidated Balance Sheets in Other within Other Noncurrent Liabilities and Other within Current Liabilities. The reasonably possible range of loss in excess of recorded reserves is not material, other than as described above.

(in millions)	December 31,	
	2019	2018
Reserves for Legal Matters		
Duke Energy	\$ 62	\$ 65
Duke Energy Carolinas	2	9
Progress Energy	55	54
Duke Energy Progress	12	12
Duke Energy Florida	22	24
Piedmont	1	1

OTHER COMMITMENTS AND CONTINGENCIES

General

As part of their normal business, the Duke Energy Registrants are party to various financial guarantees, performance guarantees and other contractual commitments to extend guarantees of credit and other assistance to various subsidiaries, investees and other third parties. These guarantees involve elements of performance and credit risk, which are not fully recognized on the Consolidated Balance Sheets and have uncapped maximum potential payments. See Note 8 for more information.

Purchase Obligations

Purchased Power

Duke Energy Progress, Duke Energy Florida and Duke Energy Ohio have ongoing purchased power contracts, including renewable energy contracts, with other utilities, wholesale marketers, co-generators and qualified facilities. These purchased power contracts generally provide for capacity and energy payments. In addition, Duke Energy Progress and Duke Energy Florida have various contracts to secure transmission rights.

The following table presents executory purchased power contracts with terms exceeding one year, excluding contracts classified as leases.

(in millions)	Minimum Purchase Amount at December 31, 2019							
	Contract Expiration	2020	2021	2022	2023	2024	Thereafter	Total
Duke Energy Progress ^(a)	2021-2032	\$ 46	\$ 66	\$ 63	\$ 55	\$ 56	\$ 123	\$ 409
Duke Energy Florida ^(b)	2021-2025	374	356	354	374	262	91	1,811
Duke Energy Ohio ^{(c)(d)}	2021-2022	132	107	32	—	—	—	271

- (a) Contracts represent either 100% of net plant output or vary.
(b) Contracts represent between 81% and 100% of net plant output.
(c) Contracts represent between 1% and 9% of net plant output.
(d) Excludes PPA with OVEC. See Note 18 for additional information.

Gas Supply and Capacity Contracts

Duke Energy Ohio and Piedmont routinely enter into long-term natural gas supply commodity and capacity commitments and other agreements that commit future cash flows to acquire services needed in their businesses. These commitments include pipeline and storage capacity contracts and natural gas supply contracts to provide service to customers. Costs arising from the natural gas supply commodity and capacity commitments, while significant, are pass-through costs to customers and are generally fully recoverable through the fuel adjustment or PGA procedures and prudence reviews in North Carolina and South Carolina and under the Tennessee Incentive Plan in Tennessee. In the Midwest, these costs are recovered via the Gas Cost Recovery Rate in Ohio or the Gas Cost Adjustment Clause in Kentucky. The time periods for fixed payments under pipeline and storage capacity contracts are up to 15 years. The time periods for fixed payments under natural gas supply contracts are up to six years. The time period for the natural gas supply purchase commitments is up to 11 years.

Certain storage and pipeline capacity contracts require the payment of demand charges that are based on rates approved by the FERC in order to maintain rights to access the natural gas storage or pipeline capacity on a firm basis during the contract term. The demand charges that are incurred in each period are recognized in the Consolidated Statements of Operations and Comprehensive Income as part of natural gas purchases and are included in Cost of natural gas.

FINANCIAL STATEMENTS

COMMITMENTS AND CONTINGENCIES

The following table presents future unconditional purchase obligations under natural gas supply and capacity contracts as of December 31, 2019.

(in millions)	Duke Energy	Duke Energy Ohio	Piedmont
2020	\$ 297	\$ 39	\$ 258
2021	280	33	247
2022	225	14	211
2023	129	3	126
2024	118	—	118
Thereafter	714	—	714
Total	\$ 1,763	\$ 89	\$ 1,674

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6. LEASES

As described in Note 1, Duke Energy adopted the revised accounting guidance for Leases effective January 1, 2019, using the modified retrospective method of adoption, which does not require restatement of prior year reported results. Adoption of the new standard resulted in the recording of ROU assets and operating lease liabilities as follows:

(in millions)	As of January 1, 2019							
	Duke	Duke	Duke	Duke	Duke	Duke	Duke	
	Energy	Energy	Progress	Energy	Energy	Energy	Energy	Piedmont
	Energy	Carolinas	Energy	Progress	Florida	Ohio	Indiana	
ROU assets	\$ 1,750	\$ 153	\$ 863	\$ 407	\$ 456	\$ 23	\$ 61	\$ 26
Operating lease liabilities – current	205	28	96	35	61	1	4	4
Operating lease liabilities – noncurrent	1,504	127	766	371	395	22	58	25

As part of its operations, Duke Energy leases certain aircraft, space on communication towers, industrial equipment, fleet vehicles, fuel transportation (barges and railcars), land and office space under various terms and expiration dates. Additionally, Duke Energy Carolinas, Duke Energy Progress and Duke Energy Indiana have finance leases related to firm natural gas pipeline transportation capacity. Duke Energy Progress and Duke Energy Florida have entered into certain PPAs, which are classified as finance and operating leases.

Duke Energy has certain lease agreements, which include variable lease payments that are based on the usage of an asset. These variable lease payments are not included in the measurement of the ROU assets or operating lease liabilities on the Consolidated Financial Statements.

Certain Duke Energy lease agreements include options for renewal and early termination. The intent to renew a lease varies depending on the lease type and asset. Renewal options that are reasonably certain to be exercised are included in the lease measurements. The decision to terminate a lease early is dependent on various economic factors. No termination options have been included in any of the lease measurements.

Duke Energy Carolinas entered into a sale-leaseback arrangement in December 2019, to construct and occupy an office tower. The lease agreement was evaluated as a sale-leaseback of real estate and it was determined that the transaction did not qualify for sale-leaseback accounting. As a result, the transaction is being accounted for as a financing. For this transaction, Duke Energy Carolinas will continue to record the real estate on the Consolidated Balance Sheets within Property, Plant and Equipment as if it were the legal owner and will continue to recognize depreciation expense over the estimated useful life. In addition, a liability will be recorded for the failed sale-leaseback obligation within Long-Term Debt on the Consolidated Balance Sheets, with the monthly lease payments commencing after the construction phase being split between interest expense and principal pay down of the debt.

Duke Energy operates various renewable energy projects and sells the generated output to utilities, electric cooperatives, municipalities and commercial and industrial customers through long-term PPAs. In certain situations, these PPAs and the associated renewable energy projects qualify as operating leases. Rental income from these leases is accounted for as Nonregulated electric and other revenues in the Consolidated Statements of Operations. There are no minimum lease payments as all payments are contingent based on actual electricity generated by the renewable energy projects. Contingent lease payments were \$264 million, \$268 million and \$262 million for the years ended December 31, 2019, 2018, and 2017, respectively. Renewable energy projects owned by Duke Energy and accounted for as operating leases had a cost basis of \$3,349 million and \$3,358 million and accumulated depreciation of \$721 million and \$602 million at December 31, 2019, and 2018, respectively. These assets are principally classified as nonregulated electric generation and transmission assets.

Piedmont has an agreement with Duke Energy Carolinas for the construction and transportation of natural gas pipelines to supply its natural gas plant needs. Piedmont accounts for this pipeline lateral contract as a lessor and sales-type lease since the present value of the sum of the lease payments equals the fair value of the asset. As of December 31, 2019, the pipeline lateral assets owned by Piedmont had a current net investment basis of \$4 million and a long-term net investment basis of \$70 million. These assets are classified in Other, within Current Assets and Other Noncurrent Assets, respectively, on Piedmont's Consolidated Balance Sheets. Duke Energy Carolinas accounts for the contract as a finance lease. The activity for this contract is eliminated in consolidation at Duke Energy.

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FINANCIAL STATEMENTS

LEASES

The following table presents the components of lease expense.

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Operating lease expense ^(a)	\$ 292	\$ 47	\$ 161	\$ 69	\$ 92	\$ 11	\$ 20	\$ 5
Short-term lease expense ^(a)	16	5	9	4	5	1	2	—
Variable lease expense ^(a)	47	22	22	16	6	—	1	1
Finance lease expense								
Amortization of leased assets ^(b)	111	6	21	5	16	1	—	—
Interest on lease liabilities ^(c)	61	15	42	33	9	—	1	—
Total finance lease expense	172	21	63	38	25	1	1	—
Total lease expense	\$ 527	\$ 95	\$ 255	\$ 127	\$ 128	\$ 13	\$ 24	\$ 6

- (a) Included in Operations, maintenance and other or, for barges and railcars, Fuel used in electric generation and purchased power on the Consolidated Statements of Operations.
(b) Included in Depreciation and amortization on the Consolidated Statements of Operations.
(c) Included in Interest Expense on the Consolidated Statements of Operations.

The following table presents rental expense for operating leases, as reported under the former lease standard. These amounts are included in Operation, maintenance and other and Fuel used in electric generation and purchased power on the Consolidated Statements of Operations.

(in millions)	Years Ended December 31,	
	2018	2017
Duke Energy	\$ 268	\$ 241
Duke Energy Carolinas	49	44
Progress Energy	143	130
Duke Energy Progress	75	75
Duke Energy Florida	68	55
Duke Energy Ohio	13	15
Duke Energy Indiana	21	23
Piedmont	11	7

The following table presents operating lease maturities and a reconciliation of the undiscounted cash flows to operating lease liabilities.

(in millions)	December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
2020	\$ 268	\$ 31	\$ 123	\$ 51	\$ 72	\$ 2	\$ 5	\$ 5
2021	216	19	99	44	55	2	4	5
2022	201	19	95	40	55	2	4	5
2023	191	17	95	41	54	2	4	5
2024	176	13	95	41	54	2	4	5
Thereafter	984	57	462	283	179	21	64	5
Total operating lease payments	2,036	156	969	500	469	31	85	30
Less: present value discount	(396)	(27)	(177)	(109)	(68)	(9)	(27)	(3)
Total operating lease liabilities ^(a)	\$ 1,640	\$ 129	\$ 792	\$ 391	\$ 401	\$ 22	\$ 58	\$ 27

- (a) Certain operating lease payments include renewal options that are reasonably certain to be exercised.

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FINANCIAL STATEMENTS

LEASES

The following table presents future minimum lease payments under operating leases, which at inception had a noncancelable term of more than one year, as reported under the former lease standard.

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
2019	\$ 239	\$ 33	\$ 97	\$ 49	\$ 48	\$ 2	\$ 6	\$ 5
2020	219	29	90	46	44	2	5	5
2021	186	19	79	37	42	2	4	5
2022	170	19	76	34	42	2	4	5
2023	160	17	77	35	42	2	5	6
Thereafter	1,017	68	455	314	141	23	66	11
Total	\$ 1,991	\$ 185	\$ 874	\$ 515	\$ 359	\$ 33	\$ 90	\$ 37

The following table presents finance lease maturities and a reconciliation of the undiscounted cash flows to finance lease liabilities.

(in millions)	December 31, 2019					
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Indiana
2020	\$ 181	\$ 28	\$ 69	\$ 44	\$ 25	\$ 1
2021	186	23	69	44	25	1
2022	173	23	69	44	25	1
2023	175	23	69	44	25	1
2024	121	23	55	44	11	1
Thereafter	823	314	539	528	11	27
Total finance lease payments	1,659	434	870	748	122	32
Less: amounts representing interest	(690)	(255)	(465)	(441)	(24)	(22)
Total finance lease liabilities	\$ 969	\$ 179	\$ 405	\$ 307	\$ 98	\$ 10

The following table presents future minimum lease payments under finance leases, as reported under the former lease standard.

(in millions)	December 31, 2018						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
2019	\$ 170	\$ 20	\$ 45	\$ 20	\$ 25	\$ 2	\$ 1
2020	174	20	46	21	25	—	1
2021	177	15	45	20	25	—	1
2022	165	15	45	21	24	—	1
2023	165	15	45	21	24	—	1
Thereafter	577	204	230	209	21	—	27
Minimum annual payments	1,428	289	456	312	144	2	32
Less: amount representing interest	(487)	(180)	(205)	(175)	(30)	—	(22)
Total	\$ 941	\$ 109	\$ 251	\$ 137	\$ 114	\$ 2	\$ 10

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Step 13 2021

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FINANCIAL STATEMENTS

LEASES

The following tables contain additional information related to leases.

		December 31, 2019								
(in millions)	Classification	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont	
Assets										
Operating	Operating lease ROU assets, net	\$ 1,658	\$ 123	\$ 788	\$ 387	\$ 401	\$ 21	\$ 57	\$ 24	
Finance	Net property, plant and equipment	926	198	443	308	135	—	7	—	
Total lease assets		\$ 2,584	\$ 321	\$ 1,231	\$ 695	\$ 536	\$ 21	\$ 64	\$ 24	
Liabilities										
Current										
Operating	Other current liabilities	\$ 208	\$ 27	\$ 95	\$ 37	\$ 58	\$ 1	\$ 3	\$ 4	
Finance	Current maturities of long-term debt	119	7	24	6	18	—	—	—	
Noncurrent										
Operating	Operating lease liabilities	1,432	102	697	354	343	21	55	23	
Finance	Long-Term Debt	850	172	381	301	80	—	10	—	
Total lease liabilities		\$ 2,609	\$ 308	\$ 1,197	\$ 698	\$ 499	\$ 22	\$ 68	\$ 27	

		Year Ended December 31, 2019								
(in millions)		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont	
Cash paid for amounts included in the measurement of lease liabilities ^(a)										
Operating cash flows from operating leases		\$ 285	\$ 34	\$ 131	\$ 53	\$ 78	\$ 2	\$ 7	\$ 7	
Operating cash flows from finance leases		61	15	42	33	9	—	1	—	
Financing cash flows from finance leases		111	6	21	5	16	1	—	—	
Lease assets obtained in exchange for new lease liabilities (non-cash)										
Operating ^(b)		\$ 194	\$ 44	\$ 30	\$ 30	\$ —	\$ —	\$ —	\$ 1	
Finance		251	76	175	175	—	—	—	—	

- (a) No amounts were classified as investing cash flows from operating leases for the year ended December 31, 2019.
(b) Does not include ROU assets recorded as a result of the adoption of the new lease standard.

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Sep 13 2021

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FINANCIAL STATEMENTS

LEASES

December 31, 2019								
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Weighted average remaining lease term (years)								
Operating leases	11	9	10	12	8	17	18	6
Finance leases	13	19	16	18	11	—	26	—
Weighted average discount rate^(a)								
Operating leases	3.9%	3.5%	3.8%	3.9%	3.8%	4.2%	4.1%	3.6%
Finance leases	8.1%	11.8%	11.9%	12.4%	8.3%	—%	11.9%	—%

- (a) The discount rate is calculated using the rate implicit in a lease if it is readily determinable. Generally, the rate used by the lessor is not provided to Duke Energy and in these cases the incremental borrowing rate is used. Duke Energy will typically use its fully collateralized incremental borrowing rate as of the commencement date to calculate and record the lease. The incremental borrowing rate is influenced by the lessee's credit rating and lease term and as such may differ for individual leases, embedded leases or portfolios of leased assets.

7. DEBT AND CREDIT FACILITIES

Summary of Debt and Related Terms

The following tables summarize outstanding debt.

December 31, 2019									
	Weighted Average Interest Rate	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
(in millions)									
Unsecured debt, maturing 2020-2078	4.02%	\$ 22,477	\$ 1,150	\$ 3,650	\$ 700	\$ 350	\$ 1,110	\$ 405	\$ 2,399
Secured debt, maturing 2020-2052	3.30%	4,537	544	1,722	335	1,387	—	—	—
First mortgage bonds, maturing 2020-2049 ^(a)	4.13%	27,977	9,557	13,800	7,575	6,225	1,449	3,169	—
Finance leases, maturing 2022-2051 ^(b)	6.60%	969	179	405	307	98	—	10	—
Tax-exempt bonds, maturing 2022-2041 ^(c)	2.90%	730	243	48	48	—	77	362	—
Notes payable and commercial paper ^(d)	1.98%	3,588	—	—	—	—	—	—	—
Money pool/intercompany borrowings		—	329	1,970	216	—	337	180	476
Fair value hedge carrying value adjustment		5	5	—	—	—	—	—	—
Unamortized debt discount and premium, net ^(e)		1,294	(23)	(29)	(17)	(11)	(30)	(19)	(2)
Unamortized debt issuance costs ^(f)		(316)	(55)	(111)	(40)	(62)	(12)	(20)	(13)
Total debt	3.92%	\$ 61,261	\$ 11,929	\$ 21,455	\$ 9,124	\$ 7,987	\$ 2,931	\$ 4,087	\$ 2,860
Short-term notes payable and commercial paper		(3,135)	—	—	—	—	—	—	—
Short-term money pool/intercompany borrowings		—	(29)	(1,821)	(66)	—	(312)	(30)	(476)
Current maturities of long-term debt^(g)		(3,141)	(458)	(1,577)	(1,006)	(571)	—	(503)	—
Total long-term debt^(g)		\$ 54,985	\$ 11,442	\$ 18,057	\$ 8,052	\$ 7,416	\$ 2,619	\$ 3,554	\$ 2,384

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FINANCIAL STATEMENTS

DEBT AND CREDIT FACILITIES

- (a) Substantially all electric utility property is mortgaged under mortgage bond indentures.
- (b) Duke Energy includes \$44 million and \$419 million of finance lease purchase accounting adjustments related to Duke Energy Progress and Duke Energy Florida, respectively, related to PPAs that are not accounted for as finance leases in their respective financial statements because of grandfathering provisions in GAAP.
- (c) Substantially all tax-exempt bonds are secured by first mortgage bonds, letters of credit or the Master Credit Facility.
- (d) Includes \$625 million classified as Long-Term Debt on the Consolidated Balance Sheets due to the existence of long-term credit facilities that backstop these commercial paper balances, along with Duke Energy's ability and intent to refinance these balances on a long-term basis. The weighted average days to maturity for Duke Energy's commercial paper program was 14 days.
- (e) Duke Energy includes \$1,275 million and \$137 million in purchase accounting adjustments related to Progress Energy and Piedmont, respectively.
- (f) Duke Energy includes \$37 million in purchase accounting adjustments primarily related to the merger with Progress Energy.
- (g) Refer to Note 18 for additional information on amounts from consolidated VIEs.

(in millions)	December 31, 2018								
	Weighted	Duke		Duke		Duke		Duke	
	Average Interest Rate	Duke Energy	Energy Carolinas	Progress Energy	Energy Progress	Energy Florida	Energy Ohio	Energy Indiana	Piedmont
Unsecured debt, maturing 2019-2078	4.26%	\$ 20,955	\$ 1,150	\$ 3,800	\$ 50	\$ 350	\$ 1,000	\$ 408	\$ 2,150
Secured debt, maturing 2020-2037	3.69%	4,297	450	1,703	300	1,403	—	—	—
First mortgage bonds, maturing 2019-2048 ^(a)	4.32%	25,628	8,759	13,100	7,574	5,526	1,099	2,670	—
Finance leases, maturing 2019-2051 ^(b)	5.06%	941	109	251	137	114	2	10	—
Tax-exempt bonds, maturing 2019-2041 ^(c)	3.40%	941	243	48	48	—	77	572	—
Notes payable and commercial paper ^(d)	2.73%	4,035	—	—	—	—	—	—	—
Money pool/intercompany borrowings	—	—	739	1,385	444	108	299	317	198
Fair value hedge carrying value adjustment	—	5	5	—	—	—	—	—	—
Unamortized debt discount and premium, net ^(e)	—	1,434	(23)	(29)	(15)	(11)	(31)	(8)	(1)
Unamortized debt issuance costs ^(f)	—	(297)	(54)	(112)	(40)	(61)	(7)	(20)	(11)
Total debt	4.13%	\$ 57,939	\$ 11,378	\$ 20,146	\$ 8,498	\$ 7,429	\$ 2,439	\$ 3,949	\$ 2,336
Short-term notes payable and commercial paper	—	(3,410)	—	—	—	—	—	—	—
Short-term money pool/intercompany borrowings	—	—	(439)	(1,235)	(294)	(108)	(274)	(167)	(198)
Current maturities of long-term debt ^(g)	—	(3,406)	(6)	(1,672)	(603)	(270)	(551)	(63)	(350)
Total long-term debt^(g)	—	\$ 51,123	\$ 10,933	\$ 17,239	\$ 7,601	\$ 7,051	\$ 1,614	\$ 3,719	\$ 1,788

- (a) Substantially all electric utility property is mortgaged under mortgage bond indentures.
- (b) Duke Energy includes \$63 million and \$531 million of finance lease purchase accounting adjustments related to Duke Energy Progress and Duke Energy Florida, respectively, related to PPAs that are not accounted for as finance leases in their respective financial statements because of grandfathering provisions in GAAP.
- (c) Substantially all tax-exempt bonds are secured by first mortgage bonds, letters of credit or the Master Credit Facility.
- (d) Includes \$625 million that was classified as Long-Term Debt on the Consolidated Balance Sheets due to the existence of long-term credit facilities that backstop these commercial paper balances, along with Duke Energy's ability and intent to refinance these balances on a long-term basis. The weighted average days to maturity for Duke Energy's commercial paper programs was 16 days.
- (e) Duke Energy includes \$1,380 million and \$156 million in purchase accounting adjustments related to Progress Energy and Piedmont, respectively.
- (f) Duke Energy includes \$41 million in purchase accounting adjustments primarily related to the merger with Progress Energy.
- (g) Refer to Note 18 for additional information on amounts from consolidated VIEs.

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SEP 13 2021

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FINANCIAL STATEMENTS

DEBT AND CREDIT FACILITIES

Current Maturities of Long-Term Debt

The following table shows the significant components of Current maturities of Long-Term Debt on the Consolidated Balance Sheets. The Duke Energy Registrants currently anticipate satisfying these obligations with cash on hand and proceeds from additional borrowings.

(in millions)	Maturity Date	Interest Rate	December 31, 2019
Unsecured Debt			
Duke Energy (Parent)	June 2020	2.100%	\$ 330
Duke Energy Progress	December 2020	2.510% ^(a)	700
First Mortgage Bonds			
Duke Energy Florida	January 2020	1.850%	250
Duke Energy Florida	April 2020	4.550%	250
Duke Energy Carolinas	June 2020	4.300%	450
Duke Energy Indiana	July 2020	3.750%	500
Duke Energy Progress	September 2020	2.065% ^(a)	300
Other^(b)			361
Current maturities of long-term debt			\$ 3,141

(a) Debt has a floating interest rate.

(b) Includes finance lease obligations, amortizing debt and small bullet maturities.

Maturities and Call Options

The following table shows the annual maturities of long-term debt for the next five years and thereafter. Amounts presented exclude short-term notes payable, commercial paper and money pool borrowings and debt issuance costs for the Subsidiary Registrants.

(in millions)	December 31, 2019							
	Duke Energy ^(a)	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
2020	\$ 3,141	\$ 458	\$ 1,578	\$ 1,006	\$ 572	—	\$ 503	\$ —
2021	5,053	504	2,257	932	825	50	70	160
2022	4,334	830	1,048	508	90	—	94	—
2023	3,112	1,006	398	319	79	325	3	45
2024	1,965	306	227	160	67	25	154	40
Thereafter	39,542	8,875	14,267	6,190	6,427	2,261	3,272	2,155
Total long-term debt, including current maturities	\$ 57,147	\$ 11,979	\$ 19,775	\$ 9,115	\$ 8,060	\$ 2,661	\$ 4,096	\$ 2,400

(a) Excludes \$1,448 million in purchase accounting adjustments related to the Progress Energy merger and the Piedmont acquisition.

The Duke Energy Registrants have the ability under certain debt facilities to call and repay the obligation prior to its scheduled maturity. Therefore, the actual timing of future cash repayments could be materially different than as presented above.

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FINANCIAL STATEMENTS

DEBT AND CREDIT FACILITIES

Short-Term Obligations Classified as Long-Term Debt

Tax-exempt bonds that may be put to the Duke Energy Registrants at the option of the holder and certain commercial paper issuances and money pool borrowings are classified as Long-Term Debt on the Consolidated Balance Sheets. These tax-exempt bonds, commercial paper issuances and money pool borrowings, which are short-term obligations by nature, are classified as long-term due to Duke Energy's intent and ability to utilize such borrowings as long-term financing. As Duke Energy's Master Credit Facility and other bilateral letter of credit agreements have non-cancelable terms in excess of one year as of the balance sheet date, Duke Energy has the ability to refinance these short-term obligations on a long-term basis. The following tables show short-term obligations classified as long-term debt.

(in millions)	December 31, 2019				
	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Ohio	Duke Energy Indiana
Tax-exempt bonds	\$ 312	\$ —	\$ —	\$ 27	\$ 285
Commercial paper ^(a)	625	300	150	25	150
Total	\$ 937	\$ 300	\$ 150	\$ 52	\$ 435

(in millions)	December 31, 2018				
	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Ohio	Duke Energy Indiana
Tax-exempt bonds	\$ 312	\$ —	\$ —	\$ 27	\$ 285
Commercial paper ^(a)	625	300	150	25	150
Total	\$ 937	\$ 300	\$ 150	\$ 52	\$ 435

(a) Progress Energy amounts are equal to Duke Energy Progress amounts.

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FINANCIAL STATEMENTS

DEBT AND CREDIT FACILITIES

Summary of Significant Debt Issuances

The following tables summarize significant debt issuances (in millions).

			Year Ended December 31, 2019								
			Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont	
Issuance Date	Maturity Date	Interest Rate	Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont	
Unsecured Debt											
March 2019 ^(a)	Mar 2022	2.538% ^(b)	\$ 300	\$ 300	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	
March 2019 ^(a)	Mar 2022	3.227%	300	300	—	—	—	—	—	—	
May 2019 ^(e)	Jun 2029	3.500%	600	—	—	—	—	—	—	600	
June 2019 ^(a)	Jun 2029	3.400%	600	600	—	—	—	—	—	—	
June 2019 ^(a)	Jun 2049	4.200%	600	600	—	—	—	—	—	—	
July 2019 ^(g)	Jul 2049	4.320%	40	—	—	—	—	40	—	—	
September 2019 ^(g)	Oct 2025	3.230%	95	—	—	—	—	95	—	—	
September 2019 ^(g)	Oct 2029	3.560%	75	—	—	—	—	75	—	—	
November 2019 ^(h)	Nov 2021	2.167% ^(b)	200	—	—	—	200	—	—	—	
First Mortgage Bonds											
January 2019 ^(c)	Feb 2029	3.650%	400	—	—	—	—	400	—	—	
January 2019 ^(c)	Feb 2049	4.300%	400	—	—	—	—	400	—	—	
March 2019 ^(d)	Mar 2029	3.450%	600	—	—	600	—	—	—	—	
August 2019 ^(a)	Aug 2029	2.450%	450	—	450	—	—	—	—	—	
August 2019 ^(a)	Aug 2049	3.200%	350	—	350	—	—	—	—	—	
September 2019 ^(f)	Oct 2049	3.250%	500	—	—	—	—	—	500	—	
November 2019 ⁽ⁱ⁾	Dec 2029	2.500%	700	—	—	—	700	—	—	—	
Total issuances			\$ 6,210	\$ 1,800	\$ 800	\$ 600	\$ 900	\$ 1,010	\$ 500	\$ 600	

- (a) Debt issued to pay down short-term debt and for general corporate purposes.
(b) Debt issuance has a floating interest rate.
(c) Debt issued to repay at maturity \$450 million first mortgage bonds due April 2019, pay down short-term debt and for general corporate purposes.
(d) Debt issued to fund eligible green energy projects in the Carolinas.
(e) Debt issued to repay in full the outstanding \$350 million Piedmont unsecured term loan due September 2019, pay down short-term debt and for general corporate purposes.
(f) Debt issued to retire \$150 million of pollution control bonds, pay down short-term debt and for general corporate purposes.
(g) Debt issued to repay at maturity \$100 million debentures due October 2019, pay down short-term debt and for general corporate purposes.
(h) Debt issued to fund storm restoration costs and for general corporate purposes.
(i) Debt issued to reimburse the payment of existing and new Eligible Green Expenditures in Florida.

In January 2020, Duke Energy Carolinas closed and funded \$900 million of first mortgage bonds of which \$500 million carry a fixed interest rate of 2.45% and mature February 2030 and \$400 million carry a fixed interest rate of 3.20% and mature August 2049. The proceeds will be used to repay at maturity \$450 million, 4.30% debentures maturing June 2020, and for general corporate purposes.

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FINANCIAL STATEMENTS

DEBT AND CREDIT FACILITIES

Issuance Date	Maturity Date	Interest Rate	Year Ended December 31, 2018				
			Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida
Unsecured Debt							
March 2018 ^(a)	April 2025	3.950%	\$ 250	\$ 250	\$ —	\$ —	\$ —
May 2018 ^(b)	May 2021	3.114%	500	500	—	—	—
September 2018 ^(c)	September 2078	5.625%	500	500	—	—	—
First Mortgage Bonds							
March 2018 ^(d)	March 2023	3.050%	500	—	500	—	—
March 2018 ^(d)	March 2048	3.950%	500	—	500	—	—
June 2018 ^(e)	July 2028	3.800%	600	—	—	—	600
June 2018 ^(e)	July 2048	4.200%	400	—	—	—	400
August 2018 ^(f)	September 2023	3.375%	300	—	—	300	—
August 2018 ^(f)	September 2028	3.700%	500	—	—	500	—
November 2018 ^(g)	May 2022	3.350%	350	—	350	—	—
November 2018 ^(g)	November 2028	3.950%	650	—	650	—	—
Total issuances			\$ 5,050	\$ 1,250	\$ 2,000	\$ 800	\$ 1,000

- (a) Debt issued to pay down short-term debt.
(b) Debt issued to pay down short-term debt. Debt issuance has a floating debt rate.
(c) Callable after September 2023 at par. Junior subordinated hybrid debt issued to pay down short-term debt and for general corporate purposes.
(d) Debt issued to repay at maturity a \$300 million first mortgage bond due April 2018, pay down intercompany short-term debt and for general corporate purposes.
(e) Debt issued to repay a portion of intercompany short-term debt under the money pool borrowing arrangement and for general corporate purposes.
(f) Debt issued to repay short-term debt and for general corporate purposes.
(g) Debt issued to fund eligible green energy projects, including zero-carbon solar and energy storage, in the Carolinas.

Available Credit Facilities

In March 2019, Duke Energy amended its existing \$8 billion Master Credit Facility to extend the termination date to March 2024. The Duke Energy Registrants, excluding Progress Energy, have borrowing capacity under the Master Credit Facility up to a specified sublimit for each borrower. Duke Energy has the unilateral ability at any time to increase or decrease the borrowing sublimits of each borrower, subject to a maximum sublimit for each borrower. The amount available under the Master Credit Facility has been reduced to backstop issuances of commercial paper, certain letters of credit and variable-rate demand tax-exempt bonds that may be put to the Duke Energy Registrants at the option of the holder. Duke Energy Carolinas and Duke Energy Progress are also required to each maintain \$250 million of available capacity under the Master Credit Facility as security to meet obligations under plea agreements reached with the U.S. Department of Justice in 2015 related to violations at North Carolina facilities with ash basins.

The table below includes the current borrowing sublimits and available capacity under these credit facilities.

(in millions)	December 31, 2019						
	Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
	Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Facility size ^(a)	\$ 8,000	\$ 2,650	\$ 1,500	\$ 1,250	\$ 800	\$ 600	\$ 600
Reduction to backstop issuances							
Commercial paper ^(b)	(2,537)	(1,119)	(325)	(207)	—	(296)	(176)
Outstanding letters of credit	(50)	(42)	(4)	(2)	—	—	—
Tax-exempt bonds	(81)	—	—	—	—	—	(81)
Coal ash set-aside	(500)	—	(250)	(250)	—	—	—
Available capacity	\$ 4,832	\$ 1,489	\$ 921	\$ 791	\$ 800	\$ 304	\$ 343

- (a) Represents the sublimit of each borrower.
(b) Duke Energy issued \$625 million of commercial paper and loaned the proceeds through the money pool to Duke Energy Carolinas, Duke Energy Progress, Duke Energy Ohio and Duke Energy Indiana. The balances are classified as Long-Term Debt Payable to Affiliated Companies in the Consolidated Balance Sheets.

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SEP 13 2021

Three-Year Revolving Credit Facility

Duke Energy (Parent) has a \$1 billion revolving credit facility. The facility had an initial termination date of June 2020, but in May 2019, Duke Energy extended the termination date of the facility to May 2022. Borrowings under this facility will be used for general corporate purposes. As of December 31, 2019, \$500 million has been drawn under this facility. This balance is classified as Long-term debt on Duke Energy's Consolidated Balance Sheets. Any undrawn commitments can be drawn, and borrowings can be prepaid, at any time throughout the term of the facility. The terms and conditions of the facility are generally consistent with those governing Duke Energy's Master Credit Facility.

Duke Energy Progress Term Loan Facility

In December 2018, Duke Energy Progress entered into a two-year term loan facility with commitments totaling \$700 million. Borrowings under the facility were used to pay storm-related costs, pay down commercial paper and to partially finance an upcoming bond maturity. As of December 31, 2019, the entire \$700 million has been drawn under the term loan. This balance is classified as Current maturities of long-term debt on Duke Energy Progress' Consolidated Balance Sheets.

Piedmont Term Loan Facility

In May 2019, the \$350 million Piedmont term loan was paid off in full with proceeds from the \$600 million Piedmont debt offering.

Other Debt Matters

In September 2019, Duke Energy filed a Form S-3 with the SEC. Under this Form S-3, which is uncapped, the Duke Energy Registrants, excluding Progress Energy, may issue debt and other securities in the future at amounts, prices and with terms to be determined at the time of future offerings. The registration statement was filed to replace a similar prior filing upon expiration of its three-year term and also allows for the issuance of common and preferred stock by Duke Energy. The expired Form S-3 was amended in March 2019, to allow Duke Energy to issue preferred stock.

Duke Energy has an effective Form S-3 with the SEC to sell up to \$3 billion of variable denomination floating-rate demand notes, called PremierNotes. The Form S-3 states that no more than \$1.5 billion of the notes will be outstanding at any particular time. The notes are offered on a continuous basis and bear interest at a floating rate per annum determined by the Duke Energy PremierNotes Committee, or its designee, on a weekly basis. The interest rate payable on notes held by an investor may vary based on the principal amount of the investment. The notes have no stated maturity date, are non-transferable and may be redeemed in whole or in part by Duke Energy or at the investor's option at any time. The balance as of December 31, 2019, and 2018, was \$1,049 million and \$1,010 million, respectively. The notes are short-term debt obligations of Duke Energy and are reflected as Notes payable and commercial paper on Duke Energy's Consolidated Balance Sheets.

Money Pool

The Subsidiary Registrants, excluding Progress Energy, are eligible to receive support for their short-term borrowing needs through participation with Duke Energy and certain of its subsidiaries in a money pool arrangement. Under this arrangement, those companies with short-term funds may provide short-term loans to affiliates participating in this arrangement. The money pool is structured such that the Subsidiary Registrants, excluding Progress Energy, separately manage their cash needs and working capital requirements. Accordingly, there is no net settlement of receivables and payables between money pool participants. Duke Energy (Parent), may loan funds to its participating subsidiaries, but may not borrow funds through the money pool. Accordingly, as the money pool activity is between Duke Energy and its wholly owned subsidiaries, all money pool balances are eliminated within Duke Energy's Consolidated Balance Sheets.

Money pool receivable balances are reflected within Notes receivable from affiliated companies on the Subsidiary Registrants' Consolidated Balance Sheets. Money pool payable balances are reflected within either Notes payable to affiliated companies or Long-Term Debt Payable to Affiliated Companies on the Subsidiary Registrants' Consolidated Balance Sheets.

Restrictive Debt Covenants

The Duke Energy Registrants' debt and credit agreements contain various financial and other covenants. Duke Energy's Master Credit Facility contains a covenant requiring the debt-to-total capitalization ratio not to exceed 65% for each borrower, excluding Piedmont, and 70% for Piedmont. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements. As of December 31, 2019, each of the Duke Energy Registrants was in compliance with all covenants related to their debt agreements. In addition, some credit agreements may allow for acceleration of payments or termination of the agreements due to nonpayment, or acceleration of other significant indebtedness of the borrower or some of its subsidiaries. None of the debt or credit agreements contain material adverse change clauses.

Other Loans

As of December 31, 2019, and 2018, Duke Energy had loans outstanding of \$777 million, including \$36 million at Duke Energy Progress and \$741 million, including \$37 million at Duke Energy Progress, respectively, against the cash surrender value of life insurance policies it owns on the lives of its executives. The amounts outstanding were carried as a reduction of the related cash surrender value that is included in Other within Other Noncurrent Assets on the Consolidated Balance Sheets.

8. GUARANTEES AND INDEMNIFICATIONS

Duke Energy has various financial and performance guarantees and indemnifications with non-consolidated entities, which are issued in the normal course of business. As discussed below, these contracts include performance guarantees, standby letters of credit, debt guarantees and indemnifications. Duke Energy enters into these arrangements to facilitate commercial transactions with third parties by enhancing the value of the transaction to the third party. At December 31, 2019, Duke Energy does not believe conditions are likely for significant performance under these guarantees. To the extent liabilities are incurred as a result of the activities covered by the guarantees, such liabilities are included on the accompanying Consolidated Balance Sheets.

On January 2, 2007, Duke Energy completed the spin-off of its previously wholly-owned natural gas businesses to shareholders. Guarantees issued by Duke Energy or its affiliates, or assigned to Duke Energy prior to the spin-off, remained with Duke Energy subsequent to the spin-off. Guarantees issued by Spectra Capital or its affiliates prior to the spin-off remained with Spectra Capital subsequent to the spin-off, except for guarantees that were later assigned to Duke Energy. Duke Energy has indemnified Spectra Capital against any losses incurred under certain of the guarantee obligations that remain with Spectra Capital. At December 31, 2019, the maximum potential amount of future payments associated with these guarantees were \$65 million, the majority of which expires by 2028.

In October 2017, ACP executed a \$3.4 billion revolving credit facility with a stated maturity date of October 2021. Duke Energy entered into a guarantee agreement to support its share of the ACP revolving credit facility. Duke Energy's maximum exposure to loss under the terms of the guarantee is \$827 million as of December 31, 2019. This amount represents 47% of the outstanding borrowings under the credit facility.

In addition to the Spectra Capital and ACP revolving credit facility guarantees above, Duke Energy has issued performance guarantees to customers and other third parties that guarantee the payment and performance of other parties, including certain non-wholly owned entities, as well as guarantees of debt of certain non-consolidated entities. If such entities were to default on payments or performance, Duke Energy would be required under the guarantees to make payments on the obligations of these entities. The maximum potential amount of future payments required under these guarantees as of December 31, 2019, was \$128 million, of which, \$114 million expire between 2020 and 2030, with the remaining performance guarantees having no contractual expiration. Additionally, certain guarantees have uncapped maximum potential payments; however, Duke Energy does not believe these guarantees will have a material effect on its results of operations, cash flows or financial position.

Duke Energy uses bank-issued standby letters of credit to secure the performance of wholly owned and non-wholly owned entities to a third party or customer. Under these arrangements, Duke Energy has payment obligations to the issuing bank that are triggered by a draw by the third party or customer due to the failure of the wholly owned or non-wholly owned entity to perform according to the terms of its underlying contract. At December 31, 2019, Duke Energy had issued a total of \$634 million in letters of credit, which expire between 2020 and 2022. The unused amount under these letters of credit was \$81 million.

Duke Energy recognized \$23 million as of December 31, 2019, and 2018, primarily in Other within Other Noncurrent Liabilities on the Consolidated Balance Sheets, for the guarantees discussed above. As current estimates change, additional losses related to guarantees and indemnifications to third parties, which could be material, may be recorded by the Duke Energy Registrants in the future.

9. JOINT OWNERSHIP OF GENERATING AND TRANSMISSION FACILITIES

The Duke Energy Registrants maintain ownership interests in certain jointly owned generating and transmission facilities. The Duke Energy Registrants are entitled to a share of the generating capacity and output of each unit equal to their respective ownership interests. The Duke Energy Registrants pay their ownership share of additional construction costs, fuel inventory purchases and operating expenses. The Duke Energy Registrants share of revenues and operating costs of the jointly owned facilities is included within the corresponding line in the Consolidated Statements of Operations. Each participant in the jointly owned facilities must provide its own financing.

The following table presents the Duke Energy Registrants' interest of jointly owned plant or facilities and amounts included on the Consolidated Balance Sheets. All facilities are operated by the Duke Energy Registrants and are included in the Electric Utilities and Infrastructure segment.

(in millions except for ownership interest)	December 31, 2019			
	Ownership Interest	Property, Plant and Equipment	Accumulated Depreciation	Construction Work in Progress
Duke Energy Carolinas				
Catawba (units 1 and 2) ^(a)	19.25%	\$ 1,011	\$ 510	\$ 21
W.S. Lee CC ^(b)	87.27%	609	32	1
Duke Energy Indiana				
Gibson (unit 5) ^(c)	50.05%	410	183	3
Vermillion ^(d)	62.50%	172	119	—
Transmission and local facilities ^(c)	Various	5,421	1,436	172

(a) Jointly owned with North Carolina Municipal Power Agency Number 1, NCEMC and PMPA.

(b) Jointly owned with NCEMC.

(c) Jointly owned with WVPA and IMPA.

(d) Jointly owned with WVPA.

10. ASSET RETIREMENT OBLIGATIONS

Duke Energy records an ARO when it has a legal obligation to incur retirement costs associated with the retirement of a long-lived asset and the obligation can be reasonably estimated. Certain assets of the Duke Energy Registrants have an indeterminate life, such as transmission and distribution facilities, and thus the fair value of the retirement obligation is not reasonably estimable. A liability for these AROs will be recorded when a fair value is determinable.

The Duke Energy Registrants' regulated operations accrue costs of removal for property that does not have an associated legal retirement obligation based on regulatory orders from state commissions. These costs of removal are recorded as a regulatory liability in accordance with regulatory accounting treatment. The Duke Energy Registrants do not accrue the estimated cost of removal for any nonregulated assets. See Note 4 for the estimated cost of removal for assets without an associated legal retirement obligation, which are included in Regulatory liabilities on the Consolidated Balance Sheets.

The following table presents the AROs recorded on the Consolidated Balance Sheets.

	December 31, 2019							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Decommissioning of nuclear power facilities ^(a)	\$ 6,633	\$ 2,551	\$ 4,028	\$ 3,499	\$ 529	\$ —	\$ —	\$ —
Closure of ash impoundments	6,333	3,118	2,368	2,352	16	41	805	—
Other	352	65	75	42	33	39	27	17
Total asset retirement obligation	\$ 13,318	\$ 5,734	\$ 6,471	\$ 5,893	\$ 578	\$ 80	\$ 832	\$ 17
Less: current portion	881	206	485	485	—	1	189	—
Total noncurrent asset retirement obligation	\$ 12,437	\$ 5,528	\$ 5,986	\$ 5,408	\$ 578	\$ 79	\$ 643	\$ 17

(a) Duke Energy amount includes purchase accounting adjustments related to the merger with Progress Energy.

Nuclear Decommissioning Liability

AROs related to nuclear decommissioning are based on site-specific cost studies. The NCUC, PSCSC and FPSC require updated cost estimates for decommissioning nuclear plants every five years.

The following table summarizes information about the most recent site-specific nuclear decommissioning cost studies. Decommissioning costs are stated in 2018 or 2019 dollars, depending on the year of the cost study, and include costs to decommission plant components not subject to radioactive contamination.

(in millions)	Annual Funding Requirement ^(a)	Decommissioning Costs ^(a)	Year of Cost Study
Duke Energy	\$ 24	\$ 9,152	2018 and 2019
Duke Energy Carolinas ^{(b)(c)}	—	4,365	2018
Duke Energy Progress ^(d)	24	4,181	2019
Duke Energy Florida ^(e)	—	606	2019

- (a) Amounts for Progress Energy equal the sum of Duke Energy Progress and Duke Energy Florida.
- (b) Decommissioning cost for Duke Energy Carolinas reflects its ownership interest in jointly owned reactors. Other joint owners are responsible for decommissioning costs related to their interest in the reactors.
- (c) Duke Energy Carolinas' site-specific nuclear decommissioning cost study completed in 2018 was filed with the NCUC and PSCSC in 2019. A new funding study was also completed and filed with the NCUC and PSCSC in 2019.
- (d) Duke Energy Progress' site-specific nuclear decommissioning cost study completed in 2019 is expected to be filed with the NCUC and PSCSC during the first quarter 2020. Duke Energy Progress will also complete a new funding study, which will be completed and filed with the NCUC and PSCSC in July 2020.
- (e) During 2019, Duke Energy Florida reached an agreement to transfer decommissioning work for Crystal River Unit 3 to a third party. The agreement requires regulatory approval from the NRC and the FPSC. See Note 4 for more information.

Nuclear Decommissioning Trust Funds

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida each maintain NDTFs that are intended to pay for the decommissioning costs of their respective nuclear power plants. The NDTF investments are managed and invested in accordance with applicable requirements of various regulatory bodies including the NRC, FERC, NCUC, PSCSC, FPSC and the IRS.

Use of the NDTF investments is restricted to nuclear decommissioning activities including license termination, spent fuel and site restoration. The license termination and spent fuel obligations relate to contaminated decommissioning and are recorded as AROs. The site restoration obligation relates to non-contaminated decommissioning and is recorded to cost of removal within Regulatory liabilities on the Consolidated Balance Sheets.

FINANCIAL STATEMENTS

ASSET RETIREMENT OBLIGATIONS

The following table presents the fair value of NDTF assets legally restricted for purposes of settling AROs associated with nuclear decommissioning. Duke Energy Florida is actively decommissioning Crystal River Unit 3 and was granted an exemption from the NRC, which allows for use of the NDTF for all aspects of nuclear decommissioning. The entire balance of Duke Energy Florida's NDTF may be applied toward license termination, spent fuel and site restoration costs incurred to decommission Crystal River Unit 3 and is excluded from the table below. See Note 17 for additional information related to the fair value of the Duke Energy Registrants' NDTFs.

(in millions)	December 31,	
	2019	2018
Duke Energy	\$ 6,766	\$ 5,579
Duke Energy Carolinas	3,837	3,133
Duke Energy Progress	2,929	2,446

Nuclear Operating Licenses

Operating licenses for nuclear units are potentially subject to extension. The following table includes the current expiration of nuclear operating licenses.

Unit	Year of Expiration
Duke Energy Carolinas	
Catawba Units 1 and 2	2043
McGuire Unit 1	2041
McGuire Unit 2	2043
Oconee Units 1 and 2	2033
Oconee Unit 3	2034
Duke Energy Progress	
Brunswick Unit 1	2036
Brunswick Unit 2	2034
Harris	2046
Robinson	2030

The NRC has acknowledged permanent cessation of operation and permanent removal of fuel from the reactor vessel at Crystal River Unit 3. Therefore, the license no longer authorizes operation of the reactor. In 2019, Duke Energy Florida entered into an agreement for the accelerated decommissioning of Crystal River Unit 3. The agreement is subject to the approval of the NRC and FPSC. See Note 4 for more information.

Closure of Ash Impoundments

The Duke Energy Registrants are subject to state and federal regulations covering the closure of coal ash impoundments, including the EPA CCR rule and the Coal Ash Act, and other agreements. AROs recorded on the Duke Energy Registrants' Consolidated Balance Sheets include the legal obligation for closure of coal ash basins and the disposal of related ash as a result of these regulations and agreements.

The ARO amount recorded on the Consolidated Balance Sheets is based upon estimated closure costs for impacted ash impoundments. The amount recorded represents the discounted cash flows for estimated closure costs based upon specific closure plans. Actual costs to be incurred will be dependent upon factors that vary from site to site. The most significant factors are the method and time frame of closure at the individual sites. Closure methods considered include removing the water from ash basins, consolidating material as necessary and capping the ash with a synthetic barrier, excavating and relocating the ash to a lined structural fill or lined landfill or recycling the ash for concrete or some other beneficial use. The ultimate method and timetable for closure will be in compliance with standards set by federal and state regulations and other agreements. The ARO amount will be adjusted as additional information is gained through the closure and post-closure process, including acceptance and approval of compliance approaches, which may change management assumptions, and may result in a material change to the balance. See ARO Liability Rollforward section below for information on revisions made to the coal ash liability during 2019 and 2018.

Asset retirement costs associated with the AROs for operating plants and retired plants are included in Net property, plant and equipment and Regulatory assets, respectively, on the Consolidated Balance Sheets. See Note 4 for additional information on Regulatory assets related to AROs.

Cost recovery for future expenditures will be pursued through the normal ratemaking process with federal and state utility commissions, which permit recovery of necessary and prudently incurred costs associated with Duke Energy's regulated operations. See Note 4 for additional information on recovery of coal ash costs.

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FINANCIAL STATEMENTS

ASSET RETIREMENT OBLIGATIONS

ARO Liability Rollforward

The following tables present changes in the liability associated with AROs.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Balance at December 31, 2017	\$ 10,175	\$ 3,610	\$ 5,414	\$ 4,673	\$ 742	\$ 84	\$ 781	\$ 15
Accretion expense ^(a)	427	179	225	196	29	4	29	1
Liabilities settled ^(b)	(638)	(281)	(272)	(227)	(45)	(5)	(79)	—
Liabilities incurred in the current year ^(c)	39	8	5	—	5	—	25	—
Revisions in estimates of cash flows	464	433	39	178	(140)	10	(34)	3
Balance at December 31, 2018	10,467	3,949	5,411	4,820	591	93	722	19
Accretion expense ^(a)	508	235	252	227	25	3	28	1
Liabilities settled ^(b)	(895)	(329)	(499)	(460)	(39)	(12)	(54)	—
Liabilities incurred in the current year	25	18	7	—	7	—	—	—
Revisions in estimates of cash flows ^(d)	3,213	1,861	1,300	1,306	(6)	(4)	136	(3)
Balance at December 31, 2019	\$ 13,318	\$ 5,734	\$ 6,471	\$ 5,893	\$ 578	\$ 80	\$ 832	\$ 17

- (a) Substantially all accretion expense for the years ended December 31, 2019, and 2018, relates to Duke Energy's regulated operations and has been deferred in accordance with regulatory accounting treatment.
- (b) Amounts primarily relate to ash impoundment closures and nuclear decommissioning of Crystal River Unit 3.
- (c) Amounts primarily relate to AROs recorded as a result of state agency closure requirements at Duke Energy Indiana.
- (d) Amounts primarily relate to increases in closure estimates for certain ash impoundments as a result of the NCDEQ's April 1 Order and the related settlement agreement dated December 31, 2019. See Note 5 for more information. The amount recorded in the fourth quarter of 2019 for coal ash closures as a result of the settlement was not material.

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FINANCIAL STATEMENTS

PROPERTY, PLANT AND EQUIPMENT

11. PROPERTY, PLANT AND EQUIPMENT

The following tables summarize the property, plant and equipment for Duke Energy and its subsidiary registrants.

		December 31, 2019							
(in millions)	Estimated Useful Life (Years)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Land		\$ 2,091	\$ 520	\$ 884	\$ 449	\$ 435	\$ 150	\$ 117	\$ 388
Plant – Regulated									
Electric generation, distribution and transmission	15-100	111,739	42,723	48,142	30,018	18,124	5,838	15,032	—
Natural gas transmission and distribution	4-73	9,839	—	—	—	—	2,892	—	6,947
Other buildings and improvements	23-90	1,810	714	401	162	239	269	278	148
Plant – Nonregulated									
Electric generation, distribution and transmission	5-30	5,103	—	—	—	—	—	—	—
Other buildings and improvements	25-35	488	—	—	—	—	—	—	—
Nuclear fuel		3,253	1,891	1,362	1,362	—	—	—	—
Equipment	3-25	2,313	546	665	452	213	319	205	128
Construction in process		6,102	1,389	2,149	1,114	1,035	504	381	531
Other	2-40	4,916	1,139	1,467	1,046	411	269	292	304
Total property, plant and equipment ^{(a)(e)}		147,654	48,922	55,070	34,603	20,457	10,241	16,305	8,446
Total accumulated depreciation – regulated ^{(b)(c)}		(43,419)	(16,525)	(17,159)	(11,915)	(5,236)	(2,843)	(5,233)	(1,681)
Total accumulated depreciation – nonregulated ^{(d)(e)}		(2,354)	—	—	—	—	—	—	—
Generation facilities to be retired, net		246	—	246	246	—	—	—	—
Total net property, plant and equipment		\$102,127	\$ 32,397	\$ 38,157	\$ 22,934	\$ 15,221	\$ 7,398	\$ 11,072	\$ 6,765

- (a) Includes finance leases of \$952 million, \$211 million, \$443 million, \$308 million, \$135 million and \$10 million at Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana, respectively, primarily within Plant – Regulated. The Progress Energy, Duke Energy Progress and Duke Energy Florida amounts are net of \$143 million, \$17 million and \$126 million, respectively, of accumulated amortization of finance leases.
- (b) Includes \$1,807 million, \$1,082 million, \$725 million and \$725 million of accumulated amortization of nuclear fuel at Duke Energy, Duke Energy Carolinas, Progress Energy and Duke Energy Progress, respectively.
- (c) Includes accumulated amortization of finance leases of \$6 million, \$13 million and \$3 million at Duke Energy, Duke Energy Carolinas and Duke Energy Indiana, respectively.
- (d) Includes accumulated amortization of finance leases of \$20 million at Duke Energy.
- (e) Includes gross property, plant and equipment cost of consolidated VIEs of \$5,747 million and accumulated depreciation of consolidated VIEs of \$1,041 million at Duke Energy.

During the year ended December 31, 2019, Duke Energy evaluated recoverability of the wind and solar generation assets included in the minority interest sale as a result of the portfolio fair value of consideration received being less than the carrying value of the assets and determined the assets were all recoverable. Additionally, in 2019, Duke Energy evaluated recoverability of its renewable merchant plants principally located in the Electric Reliability Council of Texas West market due to declining market pricing and declining long-term forecasted energy prices, primarily driven by lower forecasted natural gas prices. Duke Energy determined that the assets were not impaired because the carrying value of \$160 million approximates the aggregate estimated future cash flows. A continued decline in energy market pricing would likely result in a future impairment.

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FINANCIAL STATEMENTS

PROPERTY, PLANT AND EQUIPMENT

December 31, 2018									
(in millions)	Estimated Useful Life (Years)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Land		\$ 2,072	\$ 472	\$ 868	\$ 445	\$ 423	\$ 136	\$ 116	\$ 448
Plant – Regulated									
Electric generation, distribution and transmission	15-100	100,706	38,468	42,760	26,147	16,613	5,182	14,292	—
Natural gas transmission and distribution	12-80	8,808	—	—	—	—	2,719	—	6,089
Other buildings and improvements	24-90	1,966	681	636	295	341	270	253	126
Plant – Nonregulated									
Electric generation, distribution and transmission	5-30	4,410	—	—	—	—	—	—	—
Other buildings and improvements	25-35	494	—	—	—	—	—	—	—
Nuclear fuel		3,460	1,898	1,562	1,562	—	—	—	—
Equipment	3-55	2,141	467	565	399	166	384	178	141
Construction in process		5,726	1,678	2,515	1,659	856	412	325	382
Other	3-40	4,675	1,077	1,354	952	393	257	279	300
Total property, plant and equipment ^{(a)(d)}		134,458	44,741	50,260	31,459	18,792	9,360	15,443	7,486
Total accumulated depreciation – regulated ^{(b)(c)(d)}		(41,079)	(15,496)	(16,398)	(11,423)	(4,968)	(2,717)	(4,914)	(1,575)
Total accumulated depreciation – nonregulated ^{(c)(d)}		(2,047)	—	—	—	—	—	—	—
Generation facilities to be retired, net		362	—	362	362	—	—	—	—
Total net property, plant and equipment		\$ 91,694	\$ 29,245	\$ 34,224	\$ 20,398	\$ 13,824	\$ 6,643	\$ 10,529	\$ 5,911

- (a) Includes finance leases of \$1,237 million, \$135 million, \$257 million, \$137 million, \$120 million, \$73 million and \$35 million at Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio and Duke Energy Indiana, respectively, primarily within Plant – Regulated. The Progress Energy, Duke Energy Progress and Duke Energy Florida amounts are net of \$131 million, \$14 million and \$117 million, respectively, of accumulated amortization of finance leases.
- (b) Includes \$1,947 million, \$1,087 million, \$860 million and \$860 million of accumulated amortization of nuclear fuel at Duke Energy, Duke Energy Carolinas, Progress Energy and Duke Energy Progress, respectively.
- (c) Includes accumulated amortization of finance leases of \$61 million, \$12 million, \$20 million and \$10 million at Duke Energy, Duke Energy Carolinas, Duke Energy Ohio and Duke Energy Indiana, respectively.
- (d) Includes gross property, plant and equipment cost of consolidated VIEs of \$4,007 million and accumulated depreciation of consolidated VIEs of \$698 million at Duke Energy.

During the year ended December 31, 2017, Duke Energy recorded a pretax impairment charge of \$69 million on a wholly owned non-contracted wind project. The impairment was recorded within Impairment charges on Duke Energy's Consolidated Statements of Operations. \$58 million of the impairment related to property, plant and equipment and \$11 million of the impairment related to a net intangible asset. The charge represents the excess carrying value over the estimated fair value of the project, which was based on a Level 3 Fair Value measurement that was determined from the income approach using discounted cash flows. The impairment was primarily due to the non-contracted wind project being located in a market that has experienced continued declining market pricing during 2017 and declining long-term forecasted energy and capacity prices, driven by low natural gas prices, additional renewable generation placed in service and lack of significant load growth.

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FINANCIAL STATEMENTS

PROPERTY, PLANT AND EQUIPMENT

The following tables present capitalized interest, which includes the debt component of AFUDC.

(in millions)	Years Ended December 31,		
	2019	2018	2017
Duke Energy	\$ 159	\$ 161	\$ 128
Duke Energy Carolinas	30	35	45
Progress Energy	31	51	45
Duke Energy Progress	28	26	21
Duke Energy Florida	3	25	24
Duke Energy Ohio	22	17	10
Duke Energy Indiana	26	27	9
Piedmont	26	17	12

12. GOODWILL AND INTANGIBLE ASSETS

GOODWILL

Duke Energy

The following table presents goodwill by reportable segment for Duke Energy included on Duke Energy's Consolidated Balance Sheets at December 31, 2019, and 2018.

(in millions)	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total
Goodwill Balance at December 31, 2018	\$ 17,379	\$ 1,924	\$ 122	\$ 19,425
Accumulated impairment charges ^(a)	—	—	(122)	(122)
Goodwill balance at December 31, 2018, adjusted for accumulated impairment charges	\$ 17,379	\$ 1,924	\$ —	\$ 19,303
Goodwill Balance at December 31, 2019	\$ 17,379	\$ 1,924	\$ 122	\$ 19,425
Accumulated impairment charges ^(a)	—	—	(122)	(122)
Goodwill balance at December 31, 2019, adjusted for accumulated impairment charges	\$ 17,379	\$ 1,924	\$ —	\$ 19,303

- (a) Duke Energy evaluated the recoverability of goodwill during 2018 and 2017 and recorded impairment charges of \$93 million and \$29 million, respectively, related to the Commercial Renewables reporting unit included in Impairment charges on Duke Energy's Consolidated Statements of Operations. The fair value of the reporting unit was determined based on the income approach and market approach in 2018 and 2017, respectively. See "Goodwill Impairment Testing" below for the results of the 2019 goodwill impairment test.

Duke Energy Ohio

Duke Energy Ohio's Goodwill balance of \$920 million, allocated \$596 million to Electric Utilities and Infrastructure and \$324 million to Gas Utilities and Infrastructure, is presented net of accumulated impairment charges of \$216 million on the Consolidated Balance Sheets at December 31, 2019, and 2018.

Progress Energy

Progress Energy's Goodwill is included in the Electric Utilities and Infrastructure segment and there are no accumulated impairment charges.

Piedmont

Piedmont's Goodwill is included in the Gas Utilities and Infrastructure segment and there are no accumulated impairment charges.

Goodwill Impairment Testing

Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont are required to perform an annual goodwill impairment test as of the same date each year and, accordingly, perform their annual impairment testing of goodwill as of August 31. Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont update their test between annual tests if events or circumstances occur that would more likely than not reduce the fair value of a reporting unit below its carrying value. As the fair value for Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont exceeded their respective carrying values at the date of the annual impairment analysis, no goodwill impairment charges were recorded in 2019.

FINANCIAL STATEMENTS

GOODWILL AND INTANGIBLE ASSETS

INTANGIBLE ASSETS

The following tables show the carrying amount and accumulated amortization of intangible assets included in Other within Other Noncurrent Assets on the Consolidated Balance Sheets of the Duke Energy Registrants at December 31, 2019, and 2018.

(in millions)	December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Emission allowances	\$ 18	\$ —	\$ 5	\$ 2	\$ 3	\$ —	\$ 12	\$ —
Renewable energy certificates	172	53	118	118	—	1	—	—
Natural gas, coal and power contracts	24	—	—	—	—	—	24	—
Renewable operating and development projects	89	—	—	—	—	—	—	—
Other	2	—	—	—	—	—	—	—
Total gross carrying amounts	305	53	123	120	3	1	36	—
Accumulated amortization – natural gas, coal and power contracts	(21)	—	—	—	—	—	(21)	—
Accumulated amortization – renewable operating and development projects	(34)	—	—	—	—	—	—	—
Accumulated amortization – other	(1)	—	—	—	—	—	—	—
Total accumulated amortization	(56)	—	—	—	—	—	(21)	—
Total intangible assets, net	\$ 249	\$ 53	\$ 123	\$ 120	\$ 3	\$ 1	\$ 15	\$ —

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Emission allowances	\$ 18	\$ —	\$ 5	\$ 2	\$ 3	\$ —	\$ 12	\$ —
Renewable energy certificates	168	46	120	120	—	2	—	—
Natural gas, coal and power contracts	24	—	—	—	—	—	24	—
Renewable operating and development projects	84	—	—	—	—	—	—	—
Other	6	—	—	—	—	—	—	3
Total gross carrying amounts	300	46	125	122	3	2	36	3
Accumulated amortization – natural gas, coal and power contracts	(20)	—	—	—	—	—	(20)	—
Accumulated amortization – renewable operating and development projects	(29)	—	—	—	—	—	—	—
Accumulated amortization – other	(5)	—	—	—	—	—	—	(3)
Total accumulated amortization	(54)	—	—	—	—	—	(20)	(3)
Total intangible assets, net	\$ 246	\$ 46	\$ 125	\$ 122	\$ 3	\$ 2	\$ 16	\$ —

See Note 11 for information related to 2017 impairment charge.

Amortization Expense

Amortization expense amounts for natural gas, coal and power contracts, renewable operating projects and other intangible assets are immaterial for the years ended December 31, 2019, 2018 and 2017, and are expected to be immaterial for the next five years as of December 31, 2019.

13. INVESTMENTS IN UNCONSOLIDATED AFFILIATES

EQUITY METHOD INVESTMENTS

Investments in affiliates that are not controlled by Duke Energy, but over which it has significant influence, are accounted for using the equity method.

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FINANCIAL STATEMENTS

INVESTMENTS IN UNCONSOLIDATED AFFILIATES

The following table presents Duke Energy's investments in unconsolidated affiliates accounted for under the equity method, as well as the respective equity in earnings, by segment.

(in millions)	Years Ended December 31,					
	2019		2018		2017	
	Investments	Equity in earnings	Investments	Equity in earnings	Investments	Equity in earnings
Electric Utilities and Infrastructure	\$ 122	\$ 9	\$ 97	\$ 6	\$ 89	\$ 5
Gas Utilities and Infrastructure	1,388	114	1,003	27	763	62
Commercial Renewables	314	(4)	201	(1)	190	(5)
Other	112	43	108	51	133	57
Total	\$ 1,936	\$ 162	\$ 1,409	\$ 83	\$ 1,175	\$ 119

During the years ended December 31, 2019, 2018 and 2017, Duke Energy received distributions from equity investments of \$55 million, \$108 million and \$13 million, respectively, which are included in Other assets within Cash Flows from Operating Activities on the Consolidated Statements of Cash Flows. During the years ended December 31, 2019, 2018 and 2017, Duke Energy received distributions from equity investments of \$11 million, \$137 million and \$281 million, respectively, which are included in Return of investment capital within Cash Flows from Investing Activities on the Consolidated Statements of Cash Flows.

During the years ended December 31, 2019, 2018 and 2017, Piedmont received distributions from equity investments of \$1 million, \$1 million and \$4 million, respectively, which are included in Other assets within Cash Flows from Operating Activities and \$4 million, \$3 million and \$2 million, respectively, which are included within Cash Flows from Investing Activities on the Consolidated Statements of Cash Flows.

Significant investments in affiliates accounted for under the equity method are discussed below.

Electric Utilities and Infrastructure

Duke Energy owns a 50% interest in DATC and in Pioneer, which build, own and operate electric transmission facilities in North America.

Gas Utilities and Infrastructure

The table below outlines Duke Energy's ownership interests in natural gas pipeline companies and natural gas storage facilities.

Entity Name	Ownership Interest	Investment Amount (in millions)	
		December 31, 2019	December 31, 2018
Pipeline Investments			
ACP	47%	\$ 1,179	\$ 797
Sabal Trail	7.5%	121	112 ^(c)
Constitution	24%	—	25
Cardinal ^(a)	21.49%	9	10
Storage Facilities			
Pine Needle ^(a)	45%	28	13
Hardy Storage ^(a)	50%	51	46
Total Investments ^(b)		\$ 1,388	\$ 1,003

(a) Piedmont owns the Cardinal, Pine Needle and Hardy Storage investments.

(b) Duke Energy includes purchase accounting adjustments related to Piedmont.

(c) Sabal Trail returned capital of \$112 million during the year ended December 31, 2018.

In October 2017, Duke Energy entered into a guarantee agreement to support its share of the ACP revolving credit facility. See Note 8 for additional information. As a result of the financing, ACP returned capital of \$265 million to Duke Energy.

During 2018 and 2019, ACP received several adverse court rulings as described in Note 4. As a result, Duke Energy evaluated this investment for impairment and determined that fair value approximated carrying value and therefore no impairment was necessary.

For regulatory matters and other information on the ACP, Sabal Trail and Constitution investments, see Notes 4 and 18.

Commercial Renewables

DS Cornerstone, LLC, which owns wind farm projects in the U.S. was part of a sale of minority interest in a certain portion of renewable assets to John Hancock in 2019. See Note 2 for more information on the sale. Prior to the sale, Duke Energy had a 50% interest in DS Cornerstone, LLC. After the sale, Duke Energy has a 26% interest in the investment.

In 2019, Duke Energy acquired a majority ownership in a portfolio of distributed fuel cell projects from Bloom Energy Corporation. Duke Energy is not the primary beneficiary of the assets within the portfolio and does not consolidate the assets in the portfolio.

FINANCIAL STATEMENTS

INVESTMENTS IN UNCONSOLIDATED AFFILIATES

Impairment of Equity Method Investments

Duke Energy recorded OTTI of the Constitution investment within Equity in earnings of unconsolidated affiliates on Duke Energy's Consolidated Statements of Operations of \$25 million and \$55 million for the years ended December 31, 2019, and 2018, respectively. The current year charge resulted in the full write-down of Duke Energy's investment in Constitution. The impairments were primarily due to the continued delay in resolving project uncertainty through the courts and regulatory bodies, as well as recent pricing concerns between the customers and owners. For additional information on the Constitution investment, see Note 4.

Other

Duke Energy owns a 17.5% indirect interest in NMC, which owns and operates a methanol and MTBE business in Jubail, Saudi Arabia. Duke Energy's economic ownership interest decreased from 25% to 17.5% with the successful startup of NMC's polyacetal production facility in 2017. Duke Energy retains 25% of the board representation and voting rights of NMC.

14. RELATED PARTY TRANSACTIONS

The Subsidiary Registrants engage in related party transactions in accordance with the applicable state and federal commission regulations. Refer to the Consolidated Balance Sheets of the Subsidiary Registrants for balances due to or due from related parties. Material amounts related to transactions with related parties included in the Consolidated Statements of Operations and Comprehensive Income are presented in the following table.

(in millions)	Years Ended December 31,		
	2019	2018	2017
Duke Energy Carolinas			
Corporate governance and shared service expenses ^(a)	\$ 841	\$ 985	\$ 858
Indemnification coverages ^(b)	20	22	23
Joint Dispatch Agreement (JDA) revenue ^(c)	60	84	49
JDA expense ^(c)	186	207	145
Intercompany natural gas purchases ^(d)	15	15	9
Progress Energy			
Corporate governance and shared service expenses ^(a)	\$ 778	\$ 906	\$ 736
Indemnification coverages ^(b)	37	34	38
JDA revenue ^(c)	186	207	145
JDA expense ^(c)	60	84	49
Intercompany natural gas purchases ^(d)	76	78	77
Duke Energy Progress			
Corporate governance and shared service expenses ^(a)	\$ 462	\$ 577	\$ 438
Indemnification coverages ^(b)	15	13	15
JDA revenue ^(c)	186	207	145
JDA expense ^(c)	60	84	49
Intercompany natural gas purchases ^(d)	76	78	77
Duke Energy Florida			
Corporate governance and shared service expenses ^(a)	\$ 316	\$ 329	\$ 298
Indemnification coverages ^(b)	22	21	23
Duke Energy Ohio			
Corporate governance and shared service expenses ^(a)	\$ 354	\$ 374	\$ 363
Indemnification coverages ^(b)	4	5	5
Duke Energy Indiana			
Corporate governance and shared service expenses ^(a)	\$ 412	\$ 405	\$ 370
Indemnification coverages ^(b)	7	7	8
Piedmont			
Corporate governance and shared service expenses ^(a)	\$ 138	\$ 170	\$ 50
Indemnification coverages ^(b)	3	2	2
Intercompany natural gas sales ^(d)	91	93	86
Natural gas storage and transportation costs ^(e)	23	25	25

FINANCIAL STATEMENTS

RELATED PARTY TRANSACTIONS

- (a) The Subsidiary Registrants are charged their proportionate share of corporate governance and other shared services costs, primarily related to human resources, employee benefits, information technology, legal and accounting fees, as well as other third-party costs. These amounts are primarily recorded in Operation, maintenance and other on the Consolidated Statements of Operations and Comprehensive Income.
- (b) The Subsidiary Registrants incur expenses related to certain indemnification coverages through Bison, Duke Energy's wholly owned captive insurance subsidiary. These expenses are recorded in Operation, maintenance and other on the Consolidated Statements of Operations and Comprehensive Income.
- (c) Duke Energy Carolinas and Duke Energy Progress participate in a JDA, which allows the collective dispatch of power plants between the service territories to reduce customer rates. Revenues from the sale of power and expenses from the purchase of power pursuant to the JDA are recorded in Operating Revenues and Fuel used in electric generation and purchased power, respectively, on the Consolidated Statements of Operations and Comprehensive Income.
- (d) Piedmont provides long-term natural gas delivery service to certain Duke Energy Carolinas and Duke Energy Progress natural gas-fired generation facilities. Piedmont records the sales in Operating Revenues, and Duke Energy Carolinas and Duke Energy Progress record the related purchases as a component of Fuel used in electric generation and purchased power on their respective Consolidated Statements of Operations and Comprehensive Income. These intercompany revenues and expenses are eliminated in consolidation.
- (e) Piedmont has related party transactions as a customer of its equity method investments in Pine Needle, Hardy Storage, and Cardinal natural gas storage and transportation facilities. These expenses are included in Cost of natural gas on Piedmont's Consolidated Statements of Operations and Comprehensive Income.

In addition to the amounts presented above, the Subsidiary Registrants have other affiliate transactions, including rental of office space, participation in a money pool arrangement, other operational transactions and their proportionate share of certain charged expenses. See Note 7 for more information regarding money pool. These transactions of the Subsidiary Registrants are incurred in the ordinary course of business and are eliminated in consolidation.

As discussed in Note 18, certain trade receivables have been sold by Duke Energy Ohio and Duke Energy Indiana to CRC, an affiliate formed by a subsidiary of Duke Energy. The proceeds obtained from the sales of receivables are largely cash but do include a subordinated note from CRC for a portion of the purchase price.

Intercompany Income Taxes

Duke Energy and the Subsidiary Registrants file a consolidated federal income tax return and other state and jurisdictional returns. The Subsidiary Registrants have a tax sharing agreement with Duke Energy for the allocation of consolidated tax liabilities and benefits. Income taxes recorded represent amounts the Subsidiary Registrants would incur as separate C-Corporations. The following table includes the balance of intercompany income tax receivables and payables for the Subsidiary Registrants.

(in millions)	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
December 31, 2019							
Intercompany income tax receivable	\$ —	\$ 125	\$ 28	\$ —	\$ 9	\$ 28	13
Intercompany income tax payable	5	—	—	2	—	—	—
December 31, 2018							
Intercompany income tax receivable	\$ 52	\$ 47	\$ 29	\$ —	\$ —	\$ 8	—
Intercompany income tax payable	—	—	—	16	3	—	45

15. DERIVATIVES AND HEDGING

The Duke Energy Registrants use commodity and interest rate contracts to manage commodity price risk and interest rate risk. The primary use of commodity derivatives is to hedge the generation portfolio against changes in the prices of electricity and natural gas. Piedmont enters into natural gas supply contracts to provide diversification, reliability and natural gas cost benefits to its customers. Interest rate derivatives are used to manage interest rate risk associated with borrowings.

All derivative instruments not identified as NPNS are recorded at fair value as assets or liabilities on the Consolidated Balance Sheets. Cash collateral related to derivative instruments executed under master netting arrangements is offset against the collateralized derivatives on the Consolidated Balance Sheets. The cash impacts of settled derivatives are recorded as operating activities on the Consolidated Statements of Cash Flows.

INTEREST RATE RISK

The Duke Energy Registrants are exposed to changes in interest rates as a result of their issuance or anticipated issuance of variable-rate and fixed-rate debt and commercial paper. Interest rate risk is managed by limiting variable-rate exposures to a percentage of total debt and by monitoring changes in interest rates. To manage risk associated with changes in interest rates, the Duke Energy Registrants may enter into interest rate swaps, U.S. Treasury lock agreements and other financial contracts. In anticipation of certain fixed-rate debt issuances, a series of forward-starting interest rate swaps or Treasury locks may be executed to lock in components of current market interest rates. These instruments are later terminated prior to or upon the issuance of the corresponding debt.

FINANCIAL STATEMENTS

DERIVATIVES AND HEDGING

Cash Flow Hedges

For a derivative designated as hedging the exposure to variable cash flows of a future transaction, referred to as a cash flow hedge, the effective portion of the derivative's gain or loss is initially reported as a component of other comprehensive income and subsequently reclassified into earnings once the future transaction impacts earnings. Amounts for interest rate contracts are reclassified to earnings as interest expense over the term of the related debt. Gains and losses reclassified out of AOCI for the years ended December 31, 2019, 2018 and 2017 were not material. Duke Energy's interest rate derivatives designated as hedges include interest rate swaps used to hedge existing debt within the Commercial Renewables business and forward-starting interest rate swaps not accounted for under regulatory accounting.

Undesignated Contracts

Undesignated contracts primarily include contracts not designated as a hedge because they are accounted for under regulatory accounting or contracts that do not qualify for hedge accounting.

Duke Energy's interest rate swaps for its regulated operations employ regulatory accounting. With regulatory accounting, the mark-to-market gains or losses on the swaps are deferred as regulatory liabilities or regulatory assets, respectively. Regulatory assets and liabilities are amortized consistent with the treatment of the related costs in the ratemaking process. The accrual of interest on the swaps is recorded as Interest Expense on the Duke Energy Registrant's Consolidated Statements of Operations and Comprehensive Income.

The following tables show notional amounts of outstanding derivatives related to interest rate risk.

December 31, 2019							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	
Cash flow hedges	\$ 993	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Undesignated contracts	1,277	450	800	250	550		27
Total notional amount ^(a)	\$ 2,270	\$ 450	\$ 800	\$ 250	\$ 550	\$	27

December 31, 2018							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	
Cash flow hedges ^(a)	\$ 923	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Undesignated contracts	1,721	300	1,200	650	550		27
Total notional amount	\$ 2,644	\$ 300	\$ 1,200	\$ 650	\$ 550	\$	27

(a) Duke Energy includes amounts related to consolidated VIEs of \$693 million in cash flow hedges as of December 31, 2019, and \$422 million in cash flow hedges and \$194 million in undesignated contracts as of December 31, 2018.

COMMODITY PRICE RISK

The Duke Energy Registrants are exposed to the impact of changes in the prices of electricity purchased and sold in bulk power markets and coal and natural gas purchases, including Piedmont's natural gas supply contracts. Exposure to commodity price risk is influenced by a number of factors including the term of contracts, the liquidity of markets and delivery locations. For the Subsidiary Registrants, bulk power electricity and coal and natural gas purchases flow through fuel adjustment clauses, formula based contracts or other cost sharing mechanisms. Differences between the costs included in rates and the incurred costs, including undesignated derivative contracts, are largely deferred as regulatory assets or regulatory liabilities. Piedmont policies allow for the use of financial instruments to hedge commodity price risks. The strategy and objective of these hedging programs are to use the financial instruments to reduce gas cost volatility for customers.

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FINANCIAL STATEMENTS

DERIVATIVES AND HEDGING

Volumes

The tables below include volumes of outstanding commodity derivatives. Amounts disclosed represent the absolute value of notional volumes of commodity contracts excluding NPNS. The Duke Energy Registrants have netted contractual amounts where offsetting purchase and sale contracts exist with identical delivery locations and times of delivery. Where all commodity positions are perfectly offset, no quantities are shown.

	December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Electricity (GWh)	15,858	—	—	—	—	1,887	13,971	—
Natural gas (millions of Dth)	704	130	160	160	—	—	3	411

	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Electricity (GWh)	15,286	—	—	—	—	1,786	13,500	—
Natural gas (millions of Dth)	739	121	169	166	3	—	1	448

U.S. EQUITY SECURITIES RISK

In May 2019, Duke Energy Florida entered into a Decommissioning Services Agreement for the accelerated decommissioning of Crystal River Unit 3 with ADP CR3, LLC and ADP SF1, LLC. See Note 4 for additional information on the accelerated decommissioning. Duke Energy Florida executed U.S. equity option collars within the NDTF in May 2019 to preserve the U.S. equity portfolio value in the Duke Energy Florida NDTF in the event the accelerated decommissioning is approved. These option collars were executed as a purchase of a put option and the sale of a call option on certain U.S. equity index funds. The put and call options create a collar to guarantee a minimum and maximum investment value for the Duke Energy Florida NDTF U.S. equity portfolio. The put and call options were entered into at zero-cost, with the price to purchase the puts offset entirely by the funds received to sell the calls. As of December 31, 2019, the aggregate notional amount of both the put and call options was 305,000 units in U.S. equity security index funds. The options are not designated as hedging instruments. Substantially all of Duke Energy Florida's NDTF qualifies for regulatory accounting. With regulatory accounting, the mark-to-market gains or losses on the options are deferred as regulatory liabilities or regulatory assets, respectively.

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FINANCIAL STATEMENTS

DERIVATIVES AND HEDGING

LOCATION AND FAIR VALUE OF DERIVATIVE ASSETS AND LIABILITIES RECOGNIZED IN THE CONSOLIDATED BALANCE SHEETS

The following tables show the fair value and balance sheet location of derivative instruments. Although derivatives subject to master netting arrangements are netted on the Consolidated Balance Sheets, the fair values presented below are shown gross and cash collateral on the derivatives has not been netted against the fair values shown.

Derivative Assets		December 31, 2019							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont	
Commodity Contracts									
Not Designated as Hedging Instruments									
Current	\$ 17	\$ —	\$ —	\$ —	\$ —	\$ 3	\$ 13	\$ 1	
Noncurrent	1	—	—	—	—	1	—	—	
Total Derivative Assets – Commodity Contracts	\$ 18	\$ —	\$ —	\$ —	\$ —	\$ 4	\$ 13	\$ 1	
Interest Rate Contracts									
Not Designated as Hedging Instruments									
Current	6	—	6	—	6	—	—	—	
Total Derivative Assets – Interest Rate Contracts	\$ 6	\$ —	\$ 6	\$ —	\$ 6	\$ —	\$ —	\$ —	
Equity Securities Contracts									
Not Designated as Hedging Instruments									
Current	1	—	1	—	1	—	—	—	
Total Derivative Assets – Equity Securities Contracts	\$ 1	\$ —	\$ 1	\$ —	\$ 1	\$ —	\$ —	\$ —	
Total Derivative Assets	\$ 25	\$ —	\$ 7	\$ —	\$ 7	\$ 4	\$ 13	\$ 1	
Derivative Liabilities		December 31, 2019							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont	
Commodity Contracts									
Not Designated as Hedging Instruments									
Current	\$ 67	\$ 33	\$ 26	\$ 26	\$ —	\$ —	\$ 1	\$ 7	
Noncurrent	156	10	37	22	—	—	—	110	
Total Derivative Liabilities – Commodity Contracts	\$ 223	\$ 43	\$ 63	\$ 48	\$ —	\$ —	\$ 1	\$ 117	
Interest Rate Contracts									
Designated as Hedging Instruments									
Current	\$ 19	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	
Noncurrent	21	—	—	—	—	—	—	—	
Not Designated as Hedging Instruments									
Current	8	6	1	1	—	1	—	—	
Noncurrent	5	—	—	—	—	5	—	—	
Total Derivative Liabilities – Interest Rate Contracts	\$ 53	\$ 6	\$ 1	\$ 1	\$ —	\$ 6	\$ —	\$ —	
Equity Securities Contracts									
Not Designated as Hedging Instruments									
Current	24	—	24	—	24	—	—	—	
Total Derivative Liabilities – Equity Security Contracts	\$ 24	\$ —	\$ 24	\$ —	\$ 24	\$ —	\$ —	\$ —	
Total Derivative Liabilities	\$ 300	\$ 49	\$ 88	\$ 49	\$ 24	\$ 6	\$ 1	\$ 117	

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FINANCIAL STATEMENTS

DERIVATIVES AND HEDGING

Derivative Assets				December 31, 2018												
		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont							
(in millions)																
Commodity Contracts																
Not Designated as Hedging Instruments																
Current	\$	35	\$	2	\$	2	\$	—	\$	6	\$	23	\$	3		
Noncurrent		4		1		2		—		—		—		—		
Total Derivative Assets – Commodity Contracts	\$	39	\$	3	\$	4	\$	4	\$	—	\$	6	\$	23	\$	3
Interest Rate Contracts																
Designated as Hedging Instruments																
Current	\$	1	\$	—	\$	—	\$	—	\$	—	\$	—	\$	—		
Noncurrent		3		—		—		—		—		—		—		
Not Designated as Hedging Instruments																
Current		2		—		—		—		—		—		—		
Noncurrent		12		—		—		—		—		—		—		
Total Derivative Assets – Interest Rate Contracts	\$	18	\$	—	\$	—	\$	—	\$	—	\$	—	\$	—		
Total Derivative Assets	\$	57	\$	3	\$	4	\$	4	\$	—	\$	6	\$	23	\$	3
Derivative Liabilities				December 31, 2018												
		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont							
(in millions)																
Commodity Contracts																
Not Designated as Hedging Instruments																
Current	\$	33	\$	14	\$	10	\$	5	\$	6	\$	—	\$	—	\$	8
Noncurrent		158		10		15		6		—		—		—		133
Total Derivative Liabilities – Commodity Contracts	\$	191	\$	24	\$	25	\$	11	\$	6	\$	—	\$	—	\$	141
Interest Rate Contracts																
Designated as Hedging Instruments																
Current	\$	12	\$	—	\$	—	\$	—	\$	—	\$	—	\$	—		
Noncurrent		6		—		—		—		—		—		—		
Not Designated as Hedging Instruments																
Current		23		9		13		11		2		1		—		—
Noncurrent		10		—		6		5		1		4		—		—
Total Derivative Liabilities – Interest Rate Contracts	\$	51	\$	9	\$	19	\$	16	\$	3	\$	5	\$	—	\$	—
Total Derivative Liabilities	\$	242	\$	33	\$	44	\$	27	\$	9	\$	5	\$	—	\$	141

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FINANCIAL STATEMENTS

DERIVATIVES AND HEDGING

OFFSETTING ASSETS AND LIABILITIES

The following tables present the line items on the Consolidated Balance Sheets where derivatives are reported. Substantially all of Duke Energy's outstanding derivative contracts are subject to enforceable master netting arrangements. The gross amounts offset in the tables below show the effect of these netting arrangements on financial position and include collateral posted to offset the net position. The amounts shown are calculated by counterparty. Accounts receivable or accounts payable may also be available to offset exposures in the event of bankruptcy. These amounts are not included in the tables below.

Derivative Assets		December 31, 2019							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont	
Current									
Gross amounts recognized	\$ 24	\$ —	\$ 7	\$ —	\$ 7	\$ 3	\$ 13	\$ 1	
Gross amounts offset	(1)	—	(1)	—	(1)	—	—	—	
Net amounts presented in Current Assets: Other	\$ 23	\$ —	\$ 6	\$ —	\$ 6	\$ 3	\$ 13	\$ 1	
Noncurrent									
Gross amounts recognized	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ 1	\$ —	\$ —	
Gross amounts offset	—	—	—	—	—	—	—	—	
Net amounts presented in Other Noncurrent Assets: Other	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ 1	\$ —	\$ —	

Derivative Liabilities		December 31, 2019							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont	
Current									
Gross amounts recognized	\$ 118	\$ 39	\$ 51	\$ 27	\$ 24	\$ 1	\$ 1	\$ 7	
Gross amounts offset	(24)	—	(24)	—	(24)	—	—	—	
Net amounts presented in Current Liabilities: Other	\$ 94	\$ 39	\$ 27	\$ 27	\$ —	\$ 1	\$ 1	\$ 7	
Noncurrent									
Gross amounts recognized	\$ 182	\$ 10	\$ 37	\$ 22	\$ —	\$ 5	\$ —	\$ 110	
Gross amounts offset	—	—	—	—	—	—	—	—	
Net amounts presented in Other Noncurrent Liabilities: Other	\$ 182	\$ 10	\$ 37	\$ 22	\$ —	\$ 5	\$ —	\$ 110	

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FINANCIAL STATEMENTS

DERIVATIVES AND HEDGING

Derivative Assets			December 31, 2018								
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont			
(in millions)											
Current											
Gross amounts recognized	\$ 38	\$ 2	\$ 2	\$ 2	\$ —	\$ 6	\$ 23	\$ 3			
Gross amounts offset	(3)	(2)	(2)	(2)	—	—	—	—			
Net amounts presented in Current Assets: Other	\$ 35	\$ —	\$ —	\$ —	\$ —	\$ 6	\$ 23	\$ 3			
Noncurrent											
Gross amounts recognized	\$ 19	\$ 1	\$ 2	\$ 2	\$ —	\$ —	\$ —	\$ —			
Gross amounts offset	(3)	(1)	(2)	(2)	—	—	—	—			
Net amounts presented in Other Noncurrent Assets: Other	\$ 16	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —			

Derivative Liabilities			December 31, 2018								
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont			
(in millions)											
Current											
Gross amounts recognized	\$ 68	\$ 23	\$ 23	\$ 16	\$ 8	\$ 1	\$ —	\$ 8			
Gross amounts offset	(4)	(2)	(2)	(2)	—	—	—	—			
Net amounts presented in Current Liabilities: Other	\$ 64	\$ 21	\$ 21	\$ 14	\$ 8	\$ 1	\$ —	\$ 8			
Noncurrent											
Gross amounts recognized	\$ 174	\$ 10	\$ 21	\$ 11	\$ 1	\$ 4	\$ —	\$ 133			
Gross amounts offset	(3)	(1)	(2)	(2)	—	—	—	—			
Net amounts presented in Other Noncurrent Liabilities: Other	\$ 171	\$ 9	\$ 19	\$ 9	\$ 1	\$ 4	\$ —	\$ 133			

OBJECTIVE CREDIT CONTINGENT FEATURES

Certain derivative contracts contain objective credit contingent features. These features include the requirement to post cash collateral or letters of credit if specific events occur, such as a credit rating downgrade below investment grade. The following tables show information with respect to derivative contracts that are in a net liability position and contain objective credit-risk-related payment provisions.

		December 31, 2019			
(in millions)		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress
Aggregate fair value of derivatives in a net liability position	\$	79	\$ 35	\$ 44	\$ 44
Fair value of collateral already posted		—	—	—	—
Additional cash collateral or letters of credit in the event credit-risk-related contingent features were triggered		79	35	44	44

		December 31, 2018			
(in millions)		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress
Aggregate fair value of derivatives in a net liability position	\$	44	\$ 19	\$ 25	\$ 25
Fair value of collateral already posted		—	—	—	—
Additional cash collateral or letters of credit in the event credit-risk-related contingent features were triggered		44	19	25	25

The Duke Energy Registrants have elected to offset cash collateral and fair values of derivatives. For amounts to be netted, the derivative and cash collateral must be executed with the same counterparty under the same master netting arrangement.

16. INVESTMENTS IN DEBT AND EQUITY SECURITIES

Duke Energy's investments in debt and equity securities are primarily comprised of investments held in (i) the NDTF at Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, (ii) the grantor trusts at Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana related to OPEB plans and (iii) Bison. The Duke Energy Registrants classify investments in debt securities as AFS and investments in equity securities as FV-NI.

For investments in debt securities classified as AFS, the unrealized gains and losses are included in other comprehensive income until realized, at which time, they are reported through net income. For investments in equity securities classified as FV-NI, both realized and unrealized gains and losses are reported through net income. Substantially all of Duke Energy's investments in debt and equity securities qualify for regulatory accounting, and accordingly, all associated realized and unrealized gains and losses on these investments are deferred as a regulatory asset or liability.

Duke Energy classifies the majority of investments in debt and equity securities as long term, unless otherwise noted.

Investment Trusts

The investments within the Investment Trusts are managed by independent investment managers with discretion to buy, sell and invest pursuant to the objectives set forth by the trust agreements. The Duke Energy Registrants have limited oversight of the day-to-day management of these investments. As a result, the ability to hold investments in unrealized loss positions is outside the control of the Duke Energy Registrants. Accordingly, all unrealized losses associated with debt securities within the Investment Trusts are considered OTTI and are recognized immediately and deferred to regulatory accounts where appropriate.

Other AFS Securities

Unrealized gains and losses on all other AFS securities are included in other comprehensive income until realized, unless it is determined the carrying value of an investment is other-than-temporarily impaired. The Duke Energy Registrants analyze all investment holdings each reporting period to determine whether a decline in fair value should be considered other-than-temporary. If an OTTI exists, the unrealized credit loss is included in earnings. There were no material credit losses as of December 31, 2019, and 2018.

Other Investments amounts are recorded in Other within Other Noncurrent Assets on the Consolidated Balance Sheets.

DUKE ENERGY

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

	December 31, 2019			December 31, 2018		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
(in millions)						
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 101	\$ —	\$ —	\$ 88
Equity securities	3,523	55	5,661	2,402	95	4,475
Corporate debt securities	37	1	603	4	13	566
Municipal bonds	13	—	368	1	4	353
U.S. government bonds	33	1	1,256	14	12	1,076
Other debt securities	3	—	141	—	2	148
Total NDTF Investments	\$ 3,609	\$ 57	\$ 8,130	\$ 2,421	\$ 126	\$ 6,706
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 52	\$ —	\$ —	\$ 22
Equity securities	57	—	122	36	1	99
Corporate debt securities	3	—	67	—	2	60
Municipal bonds	4	—	94	—	1	85
U.S. government bonds	2	—	41	1	—	45
Other debt securities	—	—	56	—	1	58
Total Other Investments	\$ 66	\$ —	\$ 432	\$ 37	\$ 5	\$ 369
Total Investments	\$ 3,675	\$ 57	\$ 8,562	\$ 2,458	\$ 131	\$ 7,075

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FINANCIAL STATEMENTS

INVESTMENTS IN DEBT AND EQUITY SECURITIES

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2019
Due in one year or less	\$ 372
Due after one through five years	550
Due after five through 10 years	452
Due after 10 years	1,252
Total	\$ 2,626

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the years ended December 31, 2019, and 2018, and from sales of AFS securities for the year ended December 31, 2017, were as follows.

(in millions)	Years Ended December 31,	
	2019	2018
FV-NI:		
Realized gains	\$ 172	\$ 168
Realized losses	151	126
AFS:		
Realized gains	94	22
Realized losses	67	51

(in millions)	Year Ended December 31,
	2017
Realized gains	\$ 202
Realized losses	160

DUKE ENERGY CAROLINAS

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2019			December 31, 2018		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 21	\$ —	\$ —	\$ 29
Equity securities	1,914	8	3,154	1,309	54	2,484
Corporate debt securities	21	1	361	2	9	341
Municipal bonds	3	—	96	—	1	81
U.S. government bonds	16	1	578	5	8	475
Other debt securities	3	—	137	—	2	143
Total NDTF Investments	\$ 1,957	\$ 10	\$ 4,347	\$ 1,316	\$ 74	\$ 3,553

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2019
Due in one year or less	\$ 51
Due after one through five years	253
Due after five through 10 years	181
Due after 10 years	687
Total	\$ 1,172

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FINANCIAL STATEMENTS

INVESTMENTS IN DEBT AND EQUITY SECURITIES

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the years ended December 31, 2019, and 2018, and from sales of AFS securities for the year ended December 31, 2017, were as follows.

(in millions)	Years Ended December 31,	
	2019	2018
FV-NI:		
Realized gains	\$ 113	\$ 89
Realized losses	107	73
AFS:		
Realized gains	55	19
Realized losses	38	35

(in millions)	Year Ended December 31,
	2017
Realized gains	\$ 135
Realized losses	103

PROGRESS ENERGY

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2019			December 31, 2018		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 80	\$ —	\$ —	\$ 59
Equity securities	1,609	47	2,507	1,093	41	1,991
Corporate debt securities	16	—	242	2	4	225
Municipal bonds	10	—	272	1	3	272
U.S. government bonds	17	—	678	9	4	601
Other debt securities	—	—	4	—	—	5
Total NDTF Investments	\$ 1,652	\$ 47	\$ 3,783	\$ 1,105	\$ 52	\$ 3,153
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 49	\$ —	\$ —	\$ 17
Municipal bonds	3	—	51	—	—	47
Total Other Investments	\$ 3	\$ —	\$ 100	\$ —	\$ —	\$ 64
Total Investments	\$ 1,655	\$ 47	\$ 3,883	\$ 1,105	\$ 52	\$ 3,217

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2019
Due in one year or less	\$ 311
Due after one through five years	256
Due after five through 10 years	211
Due after 10 years	469
Total	\$ 1,247

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FINANCIAL STATEMENTS

INVESTMENTS IN DEBT AND EQUITY SECURITIES

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the years ended December 31, 2019, and 2018, and from sales of AFS securities for the year ended December 31, 2017, were as follows.

(in millions)	Years Ended December 31,	
	2019	2018
FV-NI:		
Realized gains	\$ 59	\$ 79
Realized losses	44	53
AFS:		
Realized gains	36	3
Realized losses	29	15

(in millions)	Year Ended December 31,
	2017
Realized gains	\$ 65
Realized losses	56

DUKE ENERGY PROGRESS

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2019			December 31, 2018		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 53	\$ —	\$ —	\$ 46
Equity securities	1,258	21	2,077	833	30	1,588
Corporate debt securities	16	—	242	2	3	171
Municipal bonds	10	—	272	1	3	271
U.S. government bonds	16	—	403	6	3	415
Other debt securities	—	—	4	—	—	3
Total NDTF Investments	\$ 1,300	\$ 21	\$ 3,051	\$ 842	\$ 39	\$ 2,494
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 2	\$ —	\$ —	\$ 6
Total Other Investments	\$ —	\$ —	\$ 2	\$ —	\$ —	\$ 6
Total Investments	\$ 1,300	\$ 21	\$ 3,053	\$ 842	\$ 39	\$ 2,500

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2019
Due in one year or less	\$ 34
Due after one through five years	247
Due after five through 10 years	204
Due after 10 years	436
Total	\$ 921

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FINANCIAL STATEMENTS

INVESTMENTS IN DEBT AND EQUITY SECURITIES

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the years ended December 31, 2019, and 2018, and from sales of AFS securities for the year ended December 31, 2017, were as follows.

(in millions)	Years Ended December 31,	
	2019	2018
FV-NI:		
Realized gains	\$ 38	\$ 68
Realized losses	33	48
AFS:		
Realized gains	7	2
Realized losses	5	10

(in millions)	Year Ended December 31,
	2017
Realized gains	\$ 54
Realized losses	48

DUKE ENERGY FLORIDA

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2019			December 31, 2018		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 27	\$ —	\$ —	\$ 13
Equity securities	351	26	430	260	11	403
Corporate debt securities	—	—	—	—	1	54
Municipal bonds	—	—	—	—	—	1
U.S. government bonds	1	—	275	3	1	186
Other debt securities	—	—	—	—	—	2
Total NDTF Investments^(a)	\$ 352	\$ 26	\$ 732	\$ 263	\$ 13	\$ 659
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 4	\$ —	\$ —	\$ 1
Municipal bonds	3	—	51	—	—	47
Total Other Investments	\$ 3	\$ —	\$ 55	\$ —	\$ —	\$ 48
Total Investments	\$ 355	\$ 26	\$ 787	\$ 263	\$ 13	\$ 707

(a) During the year ended December 31, 2019, Duke Energy Florida continued to receive reimbursements from the NDTF for costs related to ongoing decommissioning activity of the Crystal River Unit 3.

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2019
Due in one year or less	\$ 277
Due after one through five years	9
Due after five through 10 years	7
Due after 10 years	33
Total	\$ 326

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FINANCIAL STATEMENTS

INVESTMENTS IN DEBT AND EQUITY SECURITIES

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the years ended December 31, 2019, and 2018, and from sales of AFS securities for the year ended December 31, 2017, were as follows.

(in millions)	Years Ended December 31,	
	2019	2018
FV-NI:		
Realized gains	\$ 21	\$ 11
Realized losses	11	5
AFS:		
Realized gains	29	1
Realized losses	24	5

(in millions)	Year Ended December 31,
	2017
Realized gains	\$ 11
Realized losses	8

DUKE ENERGY INDIANA

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are measured at FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2019			December 31, 2018		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
Investments						
Equity securities	\$ 43	\$ —	\$ 81	\$ 29	\$ —	\$ 67
Corporate debt securities	—	—	6	—	—	8
Municipal bonds	1	—	36	—	1	33
U.S. government bonds	—	—	2	—	—	—
Total Investments	\$ 44	\$ —	\$ 125	\$ 29	\$ 1	\$ 108

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2019
Due in one year or less	\$ 4
Due after one through five years	16
Due after five through 10 years	7
Due after 10 years	17
Total	\$ 44

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the year ended December 31, 2019, and 2018, and from sales of AFS securities for the year ended December 31, 2017, were insignificant.

17. FAIR VALUE MEASUREMENTS

Fair value is the exchange price to sell an asset or transfer a liability in an orderly transaction between market participants at the measurement date. The fair value definition focuses on an exit price versus the acquisition cost. Fair value measurements use market data or assumptions market participants would use in pricing the asset or liability, including assumptions about risk and the risks inherent in the inputs to the valuation technique. These inputs may be readily observable, corroborated by market data, or generally unobservable. Valuation techniques maximize the use of observable inputs and minimize use of unobservable inputs. A midmarket pricing convention (the midpoint price between bid and ask prices) is permitted for use as a practical expedient.

Fair value measurements are classified in three levels based on the fair value hierarchy as defined by GAAP. Certain investments are not categorized within the fair value hierarchy. These investments are measured at fair value using the NAV per share practical expedient. The net asset value is derived based on the investment cost, less any impairment, plus or minus changes resulting from observable price changes for an identical or similar investment of the same issuer.

FINANCIAL STATEMENTS

FAIR VALUE MEASUREMENTS

Fair value accounting guidance permits entities to elect to measure certain financial instruments that are not required to be accounted for at fair value, such as equity method investments or the company's own debt, at fair value. The Duke Energy Registrants have not elected to record any of these items at fair value.

Valuation methods of the primary fair value measurements disclosed below are as follows.

Investments in equity securities

The majority of investments in equity securities are valued using Level 1 measurements. Investments in equity securities are typically valued at the closing price in the principal active market as of the last business day of the quarter. Principal active markets for equity prices include published exchanges such as the NYSE and Nasdaq Stock Market. Foreign equity prices are translated from their trading currency using the currency exchange rate in effect at the close of the principal active market. There was no after-hours market activity that was required to be reflected in the reported fair value measurements.

Investments in debt securities

Most investments in debt securities are valued using Level 2 measurements because the valuations use interest rate curves and credit spreads applied to the terms of the debt instrument (maturity and coupon interest rate) and consider the counterparty credit rating. If the market for a particular fixed-income security is relatively inactive or illiquid, the measurement is Level 3.

Commodity derivatives

Commodity derivatives with clearinghouses are classified as Level 1. If forward price curves are not observable for the full term of the contract and the unobservable period had more than an insignificant impact on the valuation, the commodity derivative is classified as Level 3. In isolation, increases (decreases) in natural gas forward prices result in favorable (unfavorable) fair value adjustments for natural gas purchase contracts; and increases (decreases) in electricity forward prices result in unfavorable (favorable) fair value adjustments for electricity sales contracts. Duke Energy regularly evaluates and validates pricing inputs used to estimate the fair value of natural gas commodity contracts by a market participant price verification procedure. This procedure provides a comparison of internal forward commodity curves to market participant generated curves.

Interest rate derivatives

Most over-the-counter interest rate contract derivatives are valued using financial models that utilize observable inputs for similar instruments and are classified as Level 2. Inputs include forward interest rate curves, notional amounts, interest rates and credit quality of the counterparties.

Other fair value considerations

See Note 12 for a discussion of the valuation of goodwill and intangible assets.

DUKE ENERGY

The following tables provide recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets. Derivative amounts in the tables below for all Duke Energy Registrants exclude cash collateral, which is disclosed in Note 15. See Note 16 for additional information related to investments by major security type for the Duke Energy Registrants.

(in millions)	December 31, 2019				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized
NDTF equity securities	\$ 5,684	\$ 5,633	\$ —	\$ —	51
NDTF debt securities	2,469	826	1,643	—	—
Other equity securities	122	122	—	—	—
Other debt securities	310	91	219	—	—
Derivative assets	25	3	7	15	—
Total assets	8,610	6,675	1,869	15	51
NDTF equity security contracts	(23)	—	(23)	—	—
Derivative liabilities	(277)	(15)	(145)	(117)	—
Net assets (liabilities)	\$ 8,310	\$ 6,660	\$ 1,701	\$ (102)	51

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FINANCIAL STATEMENTS

FAIR VALUE MEASUREMENTS

(in millions)	December 31, 2018				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized
NDTF equity securities	\$ 4,475	\$ 4,410	\$ —	\$ —	\$ 65
NDTF debt securities	2,231	576	1,655	—	—
Other equity securities	99	99	—	—	—
Other debt securities	270	67	203	—	—
Derivative assets	57	4	25	28	—
Total assets	7,132	5,156	1,883	28	65
Derivative liabilities	(242)	(11)	(90)	(141)	—
Net assets (liabilities)	\$ 6,890	\$ 5,145	\$ 1,793	\$ (113)	\$ 65

The following table provides reconciliations of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	December 31, 2019	December 31, 2018
	Derivatives (net)	Derivatives (net)
Balance at beginning of period	\$ (113)	\$ (114)
Purchases, sales, issuances and settlements:		
Purchases	37	57
Settlements	(44)	(57)
Total gains included on the Consolidated Balance Sheet	18	1
Balance at end of period	\$ (102)	\$ (113)

DUKE ENERGY CAROLINAS

The following tables provide recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2019			
	Total Fair Value	Level 1	Level 2	Not Categorized
NDTF equity securities	\$ 3,154	\$ 3,103	\$ —	\$ 51
NDTF debt securities	1,193	227	966	—
Total assets	4,347	3,330	966	51
Derivative liabilities	(49)	—	(49)	—
Net assets	\$ 4,298	\$ 3,330	\$ 917	\$ 51

(in millions)	December 31, 2018			
	Total Fair Value	Level 1	Level 2	Not Categorized
NDTF equity securities	\$ 2,484	\$ 2,419	\$ —	\$ 65
NDTF debt securities	1,069	149	920	—
Derivative assets	3	—	3	—
Total assets	3,556	2,568	923	65
Derivative liabilities	(33)	—	(33)	—
Net assets	\$ 3,523	\$ 2,568	\$ 890	\$ 65

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FINANCIAL STATEMENTS

FAIR VALUE MEASUREMENTS

PROGRESS ENERGY

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2019			December 31, 2018		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 2
NDTF equity securities	\$ 2,530	\$ 2,530	\$ —	\$ 1,991	\$ 1,991	\$ —
NDTF debt securities	1,276	599	677	1,162	427	735
Other debt securities	100	49	51	64	17	47
Derivative assets	7	—	7	4	—	4
Total assets	3,913	3,178	735	3,221	2,435	786
NDTF equity security contracts	(23)	—	(23)	—	—	—
Derivative liabilities	(65)	—	(65)	(44)	—	(44)
Net assets	\$ 3,825	\$ 3,178	\$ 647	\$ 3,177	\$ 2,435	\$ 742

DUKE ENERGY PROGRESS

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2019			December 31, 2018		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 2
NDTF equity securities	\$ 2,077	\$ 2,077	\$ —	\$ 1,588	\$ 1,588	\$ —
NDTF debt securities	974	297	677	906	294	612
Other debt securities	2	2	—	6	6	—
Derivative assets	—	—	—	4	—	4
Total assets	3,053	2,376	677	2,504	1,888	616
Derivative liabilities	(49)	—	(49)	(27)	—	(27)
Net assets	\$ 3,004	\$ 2,376	\$ 628	\$ 2,477	\$ 1,888	\$ 589

DUKE ENERGY FLORIDA

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2019			December 31, 2018		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 2
NDTF equity securities	\$ 453	\$ 453	\$ —	\$ 403	\$ 403	\$ —
NDTF debt securities	302	302	—	256	133	123
Other debt securities	55	4	51	48	1	47
Derivative assets	7	—	7	—	—	—
Total assets	817	759	58	707	537	170
NDTF equity security contracts	(23)	—	(23)	—	—	—
Derivative liabilities	(1)	—	(1)	(9)	—	(9)
Net assets	\$ 793	\$ 759	\$ 34	\$ 698	\$ 537	\$ 161

DUKE ENERGY OHIO

The recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets were not material at December 31, 2019, and 2018.

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FINANCIAL STATEMENTS

FAIR VALUE MEASUREMENTS

DUKE ENERGY INDIANA

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2019				December 31, 2018			
	Total Fair Value	Level 1	Level 2	Level 3	Total Fair Value	Level 1	Level 2	Level 3
Other equity securities	\$ 81	\$ 81	\$ —	\$ —	\$ 67	\$ 67	\$ —	\$ —
Other debt securities	44	—	44	—	41	—	41	—
Derivative assets	13	2	—	11	23	1	—	22
Total assets	138	83	44	11	131	68	41	22
Derivative liabilities	(1)	(1)	—	—	—	—	—	—
Total assets	\$ 137	\$ 82	\$ 44	\$ 11	\$ 131	\$ 68	\$ 41	\$ 22

The following table provides a reconciliation of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Derivatives (net)	
	Years Ended December 31,	
	2019	2018
Balance at beginning of period	\$ 22	\$ 27
Purchases, sales, issuances and settlements:		
Purchases	28	50
Settlements	(36)	(53)
Total losses included on the Consolidated Balance Sheet	(3)	(2)
Balance at end of period	\$ 11	\$ 22

PIEDMONT

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2019			December 31, 2018		
	Total Fair Value	Level 1	Level 3	Total Fair Value	Level 1	Level 3
Derivative assets	\$ 1	\$ 1	\$ —	\$ 3	\$ 3	\$ —
Derivative liabilities	(117)	—	(117)	(141)	—	(141)
Net (liabilities) assets	\$ (116)	\$ 1	\$ (117)	\$ (138)	\$ 3	\$ (141)

The following table provides a reconciliation of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Derivatives (net)	
	Years Ended December 31,	
	2019	2018
Balance at beginning of period	\$ (141)	\$ (142)
Total gains and settlements	24	1
Balance at end of period	\$ (117)	\$ (141)

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FINANCIAL STATEMENTS

FAIR VALUE MEASUREMENTS

QUANTITATIVE INFORMATION ABOUT UNOBSERVABLE INPUTS

The following tables include quantitative information about the Duke Energy Registrants' derivatives classified as Level 3.

December 31, 2019					
Investment Type	Fair Value (in millions)	Valuation Technique	Unobservable Input	Range	Weighted Average Range
Duke Energy Ohio					
FTRs	\$ 4	RTO auction pricing	FTR price – per MWh	\$ 0.59 – \$ 3.47	\$ 2.07
Duke Energy Indiana					
FTRs	11	RTO auction pricing	FTR price – per MWh	(0.66) – 9.24	1.15
Piedmont					
Natural gas contracts	(117)	Discounted cash flow	Forward natural gas curves – price per MMBtu	1.59 – 2.46	1.91
Duke Energy					
Total Level 3 derivatives	\$ (102)				

December 31, 2018					
Investment Type	Fair Value (in millions)	Valuation Technique	Unobservable Input	Range	
Duke Energy Ohio					
FTRs	\$ 6	RTO auction pricing	FTR price – per MWh	\$ 1.19 – \$ 4.59	
Duke Energy Indiana					
FTRs	22	RTO auction pricing	FTR price – per MWh	(2.07) – 8.27	
Piedmont					
Natural gas contracts	(141)	Discounted cash flow	Forward natural gas curves – price per MMBtu	1.87 – 2.95	
Duke Energy					
Total Level 3 derivatives	\$ (113)				

OTHER FAIR VALUE DISCLOSURES

The fair value and book value of long-term debt, including current maturities, is summarized in the following table. Estimates determined are not necessarily indicative of amounts that could have been settled in current markets. Fair value of long-term debt uses Level 2 measurements.

(in millions)	December 31, 2019		December 31, 2018	
	Book Value	Fair Value	Book Value	Fair Value
Duke Energy ^(a)	\$ 58,126	\$ 63,062	\$ 54,529	\$ 54,534
Duke Energy Carolinas	11,900	13,516	10,939	11,471
Progress Energy	19,634	22,291	18,911	19,885
Duke Energy Progress	9,058	9,934	8,204	8,300
Duke Energy Florida	7,987	9,131	7,321	7,742
Duke Energy Ohio	2,619	2,964	2,165	2,239
Duke Energy Indiana	4,057	4,800	3,782	4,158
Piedmont	2,384	2,642	2,138	2,180

- (a) Book value of long-term debt includes \$1.5 billion as of December 31, 2019, and \$1.6 billion as of December 31, 2018, of unamortized debt discount and premium, net in purchase accounting adjustments related to the mergers with Progress Energy and Piedmont that are excluded from fair value of long-term debt.

At both December 31, 2019, and December 31, 2018, fair value of cash and cash equivalents, accounts and notes receivable, accounts payable, notes payable and commercial paper, and nonrecourse notes payable of VIEs are not materially different from their carrying amounts because of the short-term nature of these instruments and/or because the stated rates approximate market rates.

18. VARIABLE INTEREST ENTITIES

A VIE is an entity that is evaluated for consolidation using more than a simple analysis of voting control. The analysis to determine whether an entity is a VIE considers contracts with an entity, credit support for an entity, the adequacy of the equity investment of an entity and the relationship of voting power to the amount of equity invested in an entity. This analysis is performed either upon the creation of a legal entity or upon the occurrence of an event requiring reevaluation, such as a significant change in an entity's assets or activities. A qualitative analysis of control determines the party that consolidates a VIE. This assessment is based on (i) what party has the power to direct the activities of the VIE that most significantly impact its economic performance and (ii) what party has rights to receive benefits or is obligated to absorb losses that could potentially be significant to the VIE. The analysis of the party that consolidates a VIE is a continual reassessment.

CONSOLIDATED VIEs

The obligations of the consolidated VIEs discussed in the following paragraphs are nonrecourse to the Duke Energy Registrants. The registrants have no requirement to provide liquidity to, purchase assets of or guarantee performance of these VIEs unless noted in the following paragraphs.

No financial support was provided to any of the consolidated VIEs during the years ended December 31, 2019, 2018, and 2017, or is expected to be provided in the future, that was not previously contractually required.

Receivables Financing – DERF/DEPR/DEFR

DERF, DEPR and DEFR are bankruptcy remote, special purpose subsidiaries of Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, respectively. DERF, DEPR and DEFR are wholly owned LLCs with separate legal existence from their parent companies, and their assets are not generally available to creditors of their parent companies. On a revolving basis, DERF, DEPR and DEFR buy certain accounts receivable arising from the sale of electricity and related services from their parent companies.

DERF, DEPR and DEFR borrow amounts under credit facilities to buy these receivables. Borrowing availability from the credit facilities is limited to the amount of qualified receivables purchased. The sole source of funds to satisfy the related debt obligations is cash collections from the receivables. Amounts borrowed under the credit facilities are reflected on the Consolidated Balance Sheets as Long-Term Debt.

The most significant activity that impacts the economic performance of DERF, DEPR and DEFR are the decisions made to manage delinquent receivables. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are considered the primary beneficiaries and consolidate DERF, DEPR and DEFR, respectively, as they make those decisions.

Receivables Financing – CRC

CRC is a bankruptcy remote, special purpose entity indirectly owned by Duke Energy. On a revolving basis, CRC buys certain accounts receivable arising from the sale of electricity, natural gas and related services from Duke Energy Ohio and Duke Energy Indiana. CRC borrows amounts under a credit facility to buy the receivables from Duke Energy Ohio and Duke Energy Indiana. Borrowing availability from the credit facility is limited to the amount of qualified receivables sold to CRC. The sole source of funds to satisfy the related debt obligation is cash collections from the receivables. Amounts borrowed under the credit facility are reflected on Duke Energy's Consolidated Balance Sheets as Long-Term Debt.

The proceeds Duke Energy Ohio and Duke Energy Indiana receive from the sale of receivables to CRC are approximately 75% cash and 25% in the form of a subordinated note from CRC. The subordinated note is a retained interest in the receivables sold. Depending on collection experience, additional equity infusions to CRC may be required by Duke Energy to maintain a minimum equity balance of \$3 million.

CRC is considered a VIE because (i) equity capitalization is insufficient to support its operations, (ii) power to direct the activities that most significantly impact the economic performance of the entity is not held by the equity holder and (iii) deficiencies in net worth of CRC are funded by Duke Energy. The most significant activities that impact the economic performance of CRC are decisions made to manage delinquent receivables. Duke Energy is considered the primary beneficiary and consolidates CRC as it makes these decisions. Neither Duke Energy Ohio nor Duke Energy Indiana consolidate CRC.

Receivables Financing – Credit Facilities

The following table summarizes the amounts and expiration dates of the credit facilities and associated restricted receivables described above.

(in millions)	CRC	Duke Energy		
		Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida
		DERF	DEPR	DEFR
Expiration date	February 2023	December 2022	February 2021	April 2021
Credit facility amount	\$ 350	\$ 475	\$ 325	\$ 250
Amounts borrowed at December 31, 2019	350	474	325	250
Amounts borrowed at December 31, 2018	325	450	300	225
Restricted Receivables at December 31, 2019	522	642	489	336
Restricted Receivables at December 31, 2018	564	699	547	357

FINANCIAL STATEMENTS

VARIABLE INTEREST ENTITIES

Nuclear Asset-Recovery Bonds – Duke Energy Florida Project Finance, LLC (DEFPPF)

DEFPPF is a bankruptcy remote, wholly owned special purpose subsidiary of Duke Energy Florida. DEFPPF was formed in 2016 for the sole purpose of issuing nuclear asset-recovery bonds to finance Duke Energy Florida's unrecovered regulatory asset related to Crystal River Unit 3.

In 2016, DEFPPF issued senior secured bonds and used the proceeds to acquire nuclear asset-recovery property from Duke Energy Florida. The nuclear asset-recovery property acquired includes the right to impose, bill, collect and adjust a non-bypassable nuclear asset-recovery charge from all Duke Energy Florida retail customers until the bonds are paid in full and all financing costs have been recovered. The nuclear asset-recovery bonds are secured by the nuclear asset-recovery property and cash collections from the nuclear asset-recovery charges are the sole source of funds to satisfy the debt obligation. The bondholders have no recourse to Duke Energy Florida.

DEFPPF is considered a VIE primarily because the equity capitalization is insufficient to support its operations. Duke Energy Florida has the power to direct the significant activities of the VIE as described above and therefore Duke Energy Florida is considered the primary beneficiary and consolidates DEFPPF.

The following table summarizes the impact of DEFPPF on Duke Energy Florida's Consolidated Balance Sheets.

(in millions)	December 31,	
	2019	2018
Receivables of VIEs	\$ 5	\$ 5
Regulatory Assets: Current	52	52
Current Assets: Other	39	39
Other Noncurrent Assets: Regulatory assets	989	1,041
Current Liabilities: Other	10	10
Current maturities of long-term debt	54	53
Long-Term Debt	1,057	1,111

Commercial Renewables

Certain of Duke Energy's renewable energy facilities are VIEs due to Duke Energy issuing guarantees for debt service and operations and maintenance reserves in support of debt financings. Assets are restricted and cannot be pledged as collateral or sold to third parties without prior approval of debt holders. Additionally, Duke Energy has VIEs associated with tax equity arrangements entered into with third-party investors in order to finance the cost of renewable assets eligible for tax credits. The activities that most significantly impacted the economic performance of these renewable energy facilities were decisions associated with siting, negotiating PPAs and EPC agreements, and decisions associated with ongoing operations and maintenance-related activities. Duke Energy is considered the primary beneficiary and consolidates the entities as it is responsible for all of these decisions.

The table below presents material balances reported on Duke Energy's Consolidated Balance Sheets related to Commercial Renewables VIEs.

(in millions)	December 31,	
	2019	2018
Current Assets: Other	\$ 203	\$ 123
Property, Plant and Equipment: Cost	5,747	4,007
Accumulated depreciation and amortization	(1,041)	(698)
Other Noncurrent Assets: Other	106	261
Current maturities of long-term debt	162	174
Long-Term Debt	1,541	1,587
Other Noncurrent Liabilities: AROs	127	106
Other Noncurrent Liabilities: Other	228	212

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FINANCIAL STATEMENTS

VARIABLE INTEREST ENTITIES

NON-CONSOLIDATED VIEs

The following tables summarize the impact of non-consolidated VIEs on the Consolidated Balance Sheets.

(in millions)	December 31, 2019					
	Duke Energy				Duke Energy	Duke Energy
	Pipeline Investments	Commercial Renewables	Other VIEs ^(a)	Total	Ohio	Indiana
Receivables from affiliated companies	\$ —	\$ (1)	\$ —	\$ (1)	\$ 64	\$ 77
Investments in equity method unconsolidated affiliates	1,179	300	—	1,479	—	—
Total assets	\$ 1,179	\$ 299	\$ —	\$ 1,478	\$ 64	\$ 77
Taxes accrued	(1)	—	—	(1)	—	—
Other current liabilities	—	—	4	4	—	—
Deferred income taxes	59	—	—	59	—	—
Other noncurrent liabilities	—	—	11	11	—	—
Total liabilities	\$ 58	\$ —	\$ 15	\$ 73	\$ —	\$ —
Net assets (liabilities)	\$ 1,121	\$ 299	\$ (15)	\$ 1,405	\$ 64	\$ 77

- (a) Duke Energy holds a 50% equity interest in Pioneer. As of December 31, 2018, Pioneer was considered a VIE due to having insufficient equity to finance its own activities without subordinated financial support. In October 2019, Pioneer closed on a private placement debt offering that gave Pioneer sufficient equity to finance its own activities and, therefore, is no longer considered a VIE. Duke Energy's investment in Pioneer was \$57 million at December 31, 2019.

(in millions)	December 31, 2018					
	Duke Energy				Duke Energy	Duke Energy
	Pipeline Investments	Commercial Renewables	Other VIEs	Total	Ohio	Indiana
Receivables from affiliated companies	\$ —	\$ —	\$ —	\$ —	\$ 93	\$ 118
Investments in equity method unconsolidated affiliates	822	190	48	1,060	—	—
Total assets	\$ 822	\$ 190	\$ 48	\$ 1,060	\$ 93	\$ 118
Taxes accrued	(1)	—	—	(1)	—	—
Other current liabilities	—	—	4	4	—	—
Deferred income taxes	21	—	—	21	—	—
Other noncurrent liabilities	—	—	12	12	—	—
Total liabilities	\$ 20	\$ —	\$ 16	\$ 36	\$ —	\$ —
Net assets	\$ 802	\$ 190	\$ 32	\$ 1,024	\$ 93	\$ 118

The Duke Energy Registrants are not aware of any situations where the maximum exposure to loss significantly exceeds the carrying values shown above except for the PPA with OVEC, which is discussed below, and various guarantees, including Duke Energy's guarantee agreement to support its share of the ACP revolving credit facility. Duke Energy's maximum exposure to loss under the terms of the guarantee is \$827 million, which represents 47% of the outstanding borrowings under the credit facility as of December 31, 2019. For more information on various guarantees, refer to Note 8.

Pipeline Investments

Duke Energy has investments in various joint ventures with pipeline projects currently under construction. These entities are considered VIEs due to having insufficient equity to finance their own activities without subordinated financial support. Duke Energy does not have the power to direct the activities that most significantly impact the economic performance, the obligation to absorb losses or the right to receive benefits of these VIEs and therefore does not consolidate these entities.

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FINANCIAL STATEMENTS

VARIABLE INTEREST ENTITIES

The table below presents Duke Energy's ownership interest and investment balances in these joint ventures.

Entity Name	Ownership Interest	VIE Investment Amount (in millions)	
		December 31, 2019	December 31, 2018
ACP ^(a)	47%	\$ 1,179	\$ 797
Constitution ^(b)	24%	—	25
Total		\$ 1,179	\$ 822

- (a) Duke Energy evaluated this investment for impairment as of December 31, 2019, and 2018, and determined that fair value approximated carrying value and therefore no impairment was necessary.
- (b) During the years ended December 31, 2019, and 2018, Duke Energy recorded an OTTI of \$25 million and \$55 million, respectively, related to Constitution within Equity in earnings of unconsolidated affiliates on Duke Energy's Consolidated Statements of Income. The current year charge resulted in the full write-down of Duke Energy's investment in Constitution. See Notes 4 and 13 for additional information.

Commercial Renewables

Duke Energy has investments in various renewable energy project entities. Some of these entities are VIEs due to Duke Energy issuing guarantees for debt service and operations and maintenance reserves in support of debt financings. Duke Energy does not consolidate these VIEs because power to direct and control key activities is shared jointly by Duke Energy and other owners. In 2019, Duke Energy acquired a majority ownership in a portfolio of distributed fuel cell projects from Bloom Energy Corporation. Duke Energy is not the primary beneficiary of the assets within the portfolio and does not consolidate the assets in the portfolio.

OVEC

Duke Energy Ohio's 9% ownership interest in OVEC is considered a non-consolidated VIE due to OVEC having insufficient equity to finance its activities without subordinated financial support. The activities that most significantly impact OVEC's economic performance include fuel strategy and supply activities and decisions associated with ongoing operations and maintenance-related activities. Duke Energy Ohio does not have the unilateral power to direct these activities, and therefore, does not consolidate OVEC.

As a counterparty to an Inter-Company Power Agreement (ICPA), Duke Energy Ohio has a contractual arrangement to receive entitlements to capacity and energy from OVEC's power plants through June 2040 commensurate with its power participation ratio, which is equivalent to Duke Energy Ohio's ownership interest. Costs, including fuel, operating expenses, fixed costs, debt amortization and interest expense, are allocated to counterparties to the ICPA based on their power participation ratio. The value of the ICPA is subject to variability due to fluctuation in power prices and changes in OVEC's cost of business. On March 31, 2018, FES, a subsidiary of FirstEnergy Corp. and an ICPA counterparty with a power participation ratio of 4.85%, filed for Chapter 11 bankruptcy, which could increase costs allocated to the counterparties. On July 31, 2018, the bankruptcy court rejected the FES ICPA, which means OVEC is an unsecured creditor in the FES bankruptcy proceeding. Duke Energy Ohio cannot predict the impact of the bankruptcy filing on its OVEC interests. In addition, certain proposed environmental rulemaking could result in future increased OVEC cost allocations. See Note 4 for additional information.

CRC

See discussion under Consolidated VIEs for additional information related to CRC.

Amounts included in Receivables from affiliated companies in the above table for Duke Energy Ohio and Duke Energy Indiana reflect their retained interest in receivables sold to CRC. These subordinated notes held by Duke Energy Ohio and Duke Energy Indiana are stated at fair value. Carrying values of retained interests are determined by allocating carrying value of the receivables between assets sold and interests retained based on relative fair value. The allocated bases of the subordinated notes are not materially different than their face value because (i) the receivables generally turnover in less than two months, (ii) credit losses are reasonably predictable due to the broad customer base and lack of significant concentration and (iii) the equity in CRC is subordinate to all retained interests and thus would absorb losses first. The hypothetical effect on fair value of the retained interests assuming both a 10% and a 20% unfavorable variation in credit losses or discount rates is not material due to the short turnover of receivables and historically low credit loss history. Interest accrues to Duke Energy Ohio and Duke Energy Indiana on the retained interests using the acceptable yield method. This method generally approximates the stated rate on the notes since the allocated basis and the face value are nearly equivalent. An impairment charge is recorded against the carrying value of both retained interests and purchased beneficial interest whenever it is determined that an OTTI has occurred.

Key assumptions used in estimating fair value are detailed in the following table.

	Duke Energy Ohio		Duke Energy Indiana	
	2019	2018	2019	2018
Anticipated credit loss ratio	0.6%	0.5%	0.3%	0.3%
Discount rate	3.3%	3.0%	3.3%	3.0%
Receivable turnover rate	13.4%	13.5%	11.5%	11.0%

--/A

FINANCIAL STATEMENTS

VARIABLE INTEREST ENTITIES

The following table shows the gross and net receivables sold.

(in millions)	Duke Energy Ohio			Duke Energy Indiana		
	December 31,			December 31,		
	2019	2018		2019	2018	
Receivables sold	\$ 253	\$ 269		\$ 307	\$ 336	
Less: Retained interests	64	93		77	118	
Net receivables sold	\$ 189	\$ 176		\$ 230	\$ 218	

The following table shows sales and cash flows related to receivables sold.

(in millions)	Duke Energy Ohio			Duke Energy Indiana		
	Years Ended December 31,			Years Ended December 31,		
	2019	2018	2017	2019	2018	2017
Sales						
Receivables sold	\$ 1,979	\$ 1,987	\$ 1,879	\$ 2,837	\$ 2,842	\$ 2,711
Loss recognized on sale	14	13	10	17	16	12
Cash flows						
Cash proceeds from receivables sold	1,993	1,967	1,865	2,860	2,815	2,694
Collection fees received	1	1	1	1	1	1
Return received on retained interests	6	6	3	9	9	7

Cash flows from sales of receivables are reflected within Cash Flows From Operating Activities on Duke Energy Ohio's and Duke Energy Indiana's Consolidated Statements of Cash Flows.

Collection fees received in connection with servicing transferred accounts receivable are included in Operation, maintenance and other on Duke Energy Ohio's and Duke Energy Indiana's Consolidated Statements of Operations and Comprehensive Income. The loss recognized on sales of receivables is calculated monthly by multiplying receivables sold during the month by the required discount. The required discount is derived monthly utilizing a three-year weighted average formula that considers charge-off history, late charge history and turnover history on the sold receivables, as well as a component for the time value of money. The discount rate, or component for the time value of money, is the prior month-end LIBOR plus a fixed rate of 1.00%.

19. REVENUE

Duke Energy recognizes revenue consistent with amounts billed under tariff offerings or at contractually agreed upon rates based on actual physical delivery of electric or natural gas service, including estimated volumes delivered when billings have not yet occurred. As such, the majority of Duke Energy's revenues have fixed pricing based on the contractual terms of the published tariffs, with variability in expected cash flows attributable to the customer's volumetric demand and ultimate quantities of energy or natural gas supplied and used during the billing period. The stand-alone selling price of related sales are designed to support recovery of prudently incurred costs and an appropriate return on invested assets and are primarily governed by published tariff rates or contractual agreements approved by relevant regulatory bodies. As described in Note 1, certain excise taxes and franchise fees levied by state or local governments are required to be paid even if not collected from the customer. These taxes are recognized on a gross basis as part of revenues. Duke Energy elects to account for all other taxes net of revenues.

Performance obligations are satisfied over time as energy or natural gas is delivered and consumed with billings generally occurring monthly and related payments due within 30 days, depending on regulatory requirements. In no event does the timing between payment and delivery of the goods and services exceed one year. Using this output method for revenue recognition provides a faithful depiction of the transfer of electric and natural gas service as customers obtain control of the commodity and benefit from its use at delivery. Additionally, Duke Energy has an enforceable right to consideration for energy or natural gas delivered at any discrete point in time and will recognize revenue at an amount that reflects the consideration to which Duke Energy is entitled for the energy or natural gas delivered.

As described above, the majority of Duke Energy's tariff revenues are at-will and, as such, related contracts with customers have an expected duration of one year or less and will not have future performance obligations for disclosure. Additionally, other long-term revenue streams, including wholesale contracts, generally provide services that are part of a single performance obligation, the delivery of electricity or natural gas. As such, other than material fixed consideration under long-term contracts, related disclosures for future performance obligations are also not applicable.

Duke Energy earns substantially all of its revenues through its reportable segments, Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables.

Electric Utilities and Infrastructure

Electric Utilities and Infrastructure earns the majority of its revenues through retail and wholesale electric service through the generation, transmission, distribution and sale of electricity. Duke Energy generally provides retail and wholesale electric service customers with their full electric load requirements or with supplemental load requirements when the customer has other sources of electricity.

FINANCIAL STATEMENTS

REVENUE

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Retail electric service is generally marketed throughout Duke Energy's electric service territory through standard service offers. The standard service offers are through tariffs determined by regulators in Duke Energy's regulated service territory. Each tariff, which is assigned to customers based on customer class, has multiple components such as an energy charge, a demand charge, a basic facilities charge and applicable riders. Duke Energy considers each of these components to be aggregated into a single performance obligation for providing electric service, or in the case of distribution only customers in Duke Energy Ohio, for delivering electricity. Electricity is considered a single performance obligation satisfied over time consistent with the series guidance and is provided and consumed over the billing period, generally one month. Retail electric service is typically provided to at-will customers who can cancel service at any time, without a substantive penalty. Additionally, Duke Energy adheres to applicable regulatory requirements in each jurisdiction to ensure the collectability of amounts billed and appropriate mitigating procedures are followed when necessary. As such, revenue from contracts with customers for such contracts is equivalent to the electricity supplied and billed in that period (including unbilled estimates).

Wholesale electric service is generally provided under long-term contracts using cost-based pricing. FERC regulates costs that may be recovered from customers and the amount of return companies are permitted to earn. Wholesale contracts include both energy and demand charges. For full requirements contracts, Duke Energy considers both charges as a single performance obligation for providing integrated electric service. For contracts where energy and demand charges are considered separate performance obligations, energy and demand are each a distinct performance obligation under the series guidance and are satisfied as energy is delivered and stand-ready service is provided on a monthly basis. This service represents consumption over the billing period and revenue is recognized consistent with billings and unbilled estimates, which generally occur monthly. Contractual amounts owed are typically trued up annually based upon incurred costs in accordance with FERC published filings and the specific customer's actual peak demand. Estimates of variable consideration related to potential additional billings or refunds owed are updated quarterly.

The majority of wholesale revenues are full requirements contracts where the customers purchase the substantial majority of their energy needs and do not have a fixed quantity of contractually required energy or capacity. As such, related forecasted revenues are considered optional purchases. Supplemental requirements contracts that include contracted blocks of energy and capacity at contractually fixed prices have the following estimated remaining performance obligations:

(in millions)	Remaining Performance Obligations						Total
	2020	2021	2022	2023	2024	Thereafter	
Progress Energy	\$ 121	\$ 92	\$ 87	\$ 44	\$ 45	\$ 58	\$ 447
Duke Energy Progress	8	8	8	8	8	—	40
Duke Energy Florida	113	84	79	36	37	58	407
Duke Energy Indiana	10	5	—	—	—	—	15

Revenues for block sales are recognized monthly as energy is delivered and stand-ready service is provided, consistent with invoiced amounts and unbilled estimates.

Gas Utilities and Infrastructure

Gas Utilities and Infrastructure earns its revenue through retail and wholesale natural gas service through the transportation, distribution and sale of natural gas. Duke Energy generally provides retail and wholesale natural gas service customers with all natural gas load requirements. Additionally, while natural gas can be stored, substantially all natural gas provided by Duke Energy is consumed by customers simultaneously with receipt of delivery.

Retail natural gas service is marketed throughout Duke Energy's natural gas service territory using published tariff rates. The tariff rates are established by regulators in Duke Energy's service territories. Each tariff, which is assigned to customers based on customer class, have multiple components, such as a commodity charge, demand charge, customer or monthly charge and transportation costs. Duke Energy considers each of these components to be aggregated into a single performance obligation for providing natural gas service. For contracts where Duke Energy provides all of the customer's natural gas needs, the delivery of natural gas is considered a single performance obligation satisfied over time, and revenue is recognized monthly based on billings and unbilled estimates as service is provided and the commodity is consumed over the billing period. Additionally, natural gas service is typically at-will and customers can cancel service at any time, without a substantive penalty. Duke Energy also adheres to applicable regulatory requirements to ensure the collectability of amounts billed and receivable and appropriate mitigating procedures are followed when necessary.

Certain long-term individually negotiated contracts exist to provide natural gas service. These contracts are regulated and approved by state commissions. The negotiated contracts have multiple components, including a natural gas and a demand charge, similar to retail natural gas contracts. Duke Energy considers each of these components to be a single performance obligation for providing natural gas service. This service represents consumption over the billing period, generally one month.

Fixed capacity payments under long-term contracts for the Gas Utilities and Infrastructure segment include minimum margin contracts and supply arrangements with municipalities and power generation facilities. Revenues for related sales are recognized monthly as natural gas is delivered and stand-ready service is provided, consistent with invoiced amounts and unbilled estimates. Estimated remaining performance obligations are as follows:

(in millions)	Remaining Performance Obligations						Total
	2020	2021	2022	2023	2024	Thereafter	
Piedmont	\$ 69	\$ 64	\$ 64	\$ 61	\$ 58	\$ 372	\$ 688

FINANCIAL STATEMENTS

REVENUE

Commercial Renewables

Commercial Renewables earns the majority of its revenues through long-term PPAs and generally sells all of its wind and solar facility output, electricity and RECs to customers. The majority of these PPAs have historically been accounted for as leases. For PPAs that are not accounted for as leases, the delivery of electricity and the delivery of RECs are considered separate performance obligations.

The delivery of electricity is a performance obligation satisfied over time and represents generation and consumption of the electricity over the billing period, generally one month. The delivery of RECs is a performance obligation satisfied at a point in time and represents delivery of each REC generated by the wind or solar facility. The majority of self-generated RECs are bundled with energy in Duke Energy's contracts and, as such, related revenues are recognized as energy is generated and delivered as that pattern is consistent with Duke Energy's performance. Commercial Renewables recognizes revenue based on the energy generated and billed for the period, generally one month, at contractual rates (including unbilled estimates) according to the invoice practical expedient. Amounts are typically due within 30 days of invoice.

Commercial Renewables also earns revenues from installation of distributed solar generation resources, which is primarily composed of EPC projects to deliver functioning solar power systems, generally completed within two to 12 months from commencement of construction. The installation of distributed solar generation resources is a performance obligation that is satisfied over time. Revenue from fixed-price EPC contracts is recognized using the input method as work is performed based on the estimated ratio of incurred costs to estimated total costs.

Other

The remainder of Duke Energy's operations is presented as Other, which does not include material revenues from contracts with customers.

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FINANCIAL STATEMENTS

REVENUE

Disaggregated Revenues

For the Electric and Gas Utility and Infrastructure segments, revenue by customer class is most meaningful to Duke Energy as each respective customer class collectively represents unique customer expectations of service, generally has different energy and demand requirements, and operates under tailored, regulatory approved pricing structures. Additionally, each customer class is impacted differently by weather and a variety of economic factors including the level of population growth, economic investment, employment levels, and regulatory activities in each of Duke Energy's jurisdictions. As such, analyzing revenues disaggregated by customer class allows Duke Energy to understand the nature, amount, timing and uncertainty of revenue and cash flows arising from contracts with customers. For the Commercial Renewables segment, the majority of revenues from contracts with customers are from selling all of the unit-contingent output at contractually defined pricing under long-term PPAs with consistent expectations regarding the timing and certainty of cash flows. Disaggregated revenues are presented as follows:

(in millions) By market or type of customer	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
<i>Electric Utilities and Infrastructure</i>								
Residential	\$ 9,863	\$ 3,044	\$ 4,998	\$ 2,144	\$ 2,854	\$ 733	\$ 1,087	\$ —
General	6,431	2,244	2,935	1,368	1,567	451	802	—
Industrial	3,071	1,215	934	675	259	147	774	—
Wholesale	2,212	462	1,468	1,281	187	46	235	—
Other revenues	770	276	548	317	231	80	89	—
Total Electric Utilities and Infrastructure revenue from contracts with customers	\$ 22,347	\$ 7,241	\$ 10,883	\$ 5,785	\$ 5,098	\$ 1,457	\$ 2,987	\$ —
<i>Gas Utilities and Infrastructure</i>								
Residential	\$ 976	\$ —	\$ —	\$ —	\$ —	\$ 315	\$ —	\$ 661
Commercial	508	—	—	—	—	130	—	378
Industrial	141	—	—	—	—	19	—	122
Power Generation	—	—	—	—	—	—	—	51
Other revenues	129	—	—	—	—	19	—	110
Total Gas Utilities and Infrastructure revenue from contracts with customers	\$ 1,754	\$ —	\$ —	\$ —	\$ —	\$ 483	\$ —	\$ 1,322
<i>Commercial Renewables</i>								
Revenue from contracts with customers	\$ 223	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
<i>Other</i>								
Revenue from contracts with customers	\$ 24	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Total revenue from contracts with customers	\$ 24,348	\$ 7,241	\$ 10,883	\$ 5,785	\$ 5,098	\$ 1,940	\$ 2,987	\$ 1,322
Other revenue sources ^(a)	\$ 731	\$ 154	\$ 319	\$ 172	\$ 133	\$ —	\$ 17	\$ 59
Total revenues	\$ 25,079	\$ 7,395	\$ 11,202	\$ 5,957	\$ 5,231	\$ 1,940	\$ 3,004	\$ 1,381

- (a) Other revenue sources include revenues from leases, derivatives and alternative revenue programs that are not considered revenues from contracts with customers. Alternative revenue programs in certain jurisdictions include regulatory mechanisms that periodically adjust for over or under collection of related revenues.

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FINANCIAL STATEMENTS

REVENUE

(in millions) By market or type of customer	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Electric Utilities and Infrastructure								
Residential	\$ 9,587	\$ 2,981	\$ 4,785	\$ 2,019	\$ 2,766	\$ 743	\$ 1,076	\$ —
General	6,127	2,119	2,809	1,280	1,529	422	778	—
Industrial	2,974	1,180	904	642	262	131	760	—
Wholesale	2,324	508	1,462	1,303	159	57	298	—
Other revenues	717	320	502	320	182	73	91	—
Total Electric Utilities and Infrastructure revenue from contracts with customers	\$ 21,729	\$ 7,108	\$ 10,462	\$ 5,564	\$ 4,898	\$ 1,426	\$ 3,003	\$ —
Gas Utilities and Infrastructure								
Residential	\$ 1,000	\$ —	\$ —	\$ —	\$ —	\$ 331	\$ —	\$ 669
Commercial	514	—	—	—	—	135	—	378
Industrial	147	—	—	—	—	18	—	128
Power Generation	—	—	—	—	—	—	—	54
Other revenues	139	—	—	—	—	19	—	120
Total Gas Utilities and Infrastructure revenue from contracts with customers	\$ 1,800	\$ —	\$ —	\$ —	\$ —	\$ 503	\$ —	\$ 1,349
Commercial Renewables								
Revenue from contracts with customers	\$ 209	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Other								
Revenue from contracts with customers	\$ 19	\$ —	\$ —	\$ —	\$ —	\$ 1	\$ —	\$ —
Total revenue from contracts with customers	\$ 23,757	\$ 7,108	\$ 10,462	\$ 5,564	\$ 4,898	\$ 1,930	\$ 3,003	\$ 1,349
Other revenue sources ^(a)	\$ 764	\$ 192	\$ 266	\$ 135	\$ 123	\$ 27	\$ 56	\$ 26
Total revenues	\$ 24,521	\$ 7,300	\$ 10,728	\$ 5,699	\$ 5,021	\$ 1,957	\$ 3,059	\$ 1,375

(a) Other revenue sources include revenues from leases, derivatives and alternative revenue programs that are not considered revenues from contracts with customers. Alternative revenue programs in certain jurisdictions include regulatory mechanisms that periodically adjust for over or under collection of related revenues.

IMPACT OF WEATHER AND THE TIMING OF BILLING PERIODS

Revenues and costs are influenced by seasonal weather patterns. Peak sales of electricity occur during the summer and winter months, which results in higher revenue and cash flows during these periods. By contrast, lower sales of electricity occur during the spring and fall, allowing for scheduled plant maintenance. Residential and general service customers are more impacted by weather than industrial customers. Estimated weather impacts are based on actual current period weather compared to normal weather conditions. Normal weather conditions are defined as the long-term average of actual historical weather conditions. Heating degree days measure the variation in weather based on the extent the average daily temperature falls below a base temperature. Cooling degree days measure the variation in weather based on the extent the average daily temperature rises above the base temperature. Each degree of temperature below the base temperature counts as one heating degree day and each degree of temperature above the base temperature counts as one cooling degree day.

The estimated impact of weather on earnings for Electric Utilities and Infrastructure is based on the temperature variances from a normal condition and customers' historic usage patterns. The methodology used to estimate the impact of weather does not consider all variables that may impact customer response to weather conditions, such as humidity in the summer or wind chill in the winter. The precision of this estimate may also be impacted by applying long-term weather trends to shorter-term periods.

Gas Utilities and Infrastructure's costs and revenues are influenced by seasonal patterns due to peak natural gas sales occurring during the winter months as a result of space heating requirements. Residential customers are the most impacted by weather. There are certain regulatory mechanisms for the North Carolina, South Carolina, Tennessee, Ohio and Kentucky service territories that normalize the margins collected from certain customer classes during the winter. In North Carolina, rate design provides protection from both weather and other usage variations such as conservation, while South Carolina, Tennessee and Kentucky revenues are adjusted solely based on weather. Ohio primarily employs a fixed charge each month regardless of the season and usage.

FINANCIAL STATEMENTS

REVENUE

UNBILLED REVENUE

Unbilled revenues are recognized by applying customer billing rates to the estimated volumes of energy or natural gas delivered but not yet billed. Unbilled revenues can vary significantly from period to period as a result of seasonality, weather, customer usage patterns, customer mix, average price in effect for customer classes, timing of rendering customer bills and meter reading schedules, and the impact of weather normalization or margin decoupling mechanisms.

Unbilled revenues are included within Receivables and Receivables of VIEs on the Consolidated Balance Sheets as shown in the following table.

(in millions)	December 31,	
	2019	2018
Duke Energy	\$ 843	\$ 896
Duke Energy Carolinas	298	313
Progress Energy	217	244
Duke Energy Progress	122	148
Duke Energy Florida	95	96
Duke Energy Ohio	1	2
Duke Energy Indiana	16	23
Piedmont	78	73

Additionally, Duke Energy Ohio and Duke Energy Indiana sell, on a revolving basis, nearly all of their retail accounts receivable, including receivables for unbilled revenues, to an affiliate, CRC and account for the transfers of receivables as sales. Accordingly, the receivables sold are not reflected on the Consolidated Balance Sheets of Duke Energy Ohio and Duke Energy Indiana. See Note 18 for further information. These receivables for unbilled revenues are shown in the table below.

(in millions)	December 31,	
	2019	2018
Duke Energy Ohio	\$ 82	\$ 86
Duke Energy Indiana	115	128

20. STOCKHOLDERS' EQUITY

Basic EPS is computed by dividing net income available to Duke Energy common stockholders, as adjusted for distributed and undistributed earnings allocated to participating securities, by the weighted average number of common shares outstanding during the period. Diluted EPS is computed by dividing net income available to Duke Energy common stockholders, as adjusted for distributed and undistributed earnings allocated to participating securities, by the diluted weighted average number of common shares outstanding during the period. Diluted EPS reflects the potential dilution that could occur if securities or other agreements to issue common stock, such as stock options and equity forward sale agreements, were exercised or settled. Duke Energy's participating securities are RSUs that are entitled to dividends declared on Duke Energy common stock during the RSUs vesting periods. Dividends declared on preferred stock are recorded on the Consolidated Statements of Operations as a reduction of net income to arrive at net income available to Duke Energy common stockholders. Dividends accumulated on preferred stock are a reduction to net income used in the calculation of basic and diluted EPS.

The following table presents Duke Energy's basic and diluted EPS calculations, the weighted average number of common shares outstanding and common and preferred share dividends declared.

(in millions, except per share amounts)	Years Ended December 31,		
	2019	2018	2017
Income from continuing operations available to Duke Energy common stockholders excluding impact of participating securities and including accumulated preferred stock dividends	\$ 3,694	\$ 2,642	\$ 3,059
Weighted average common shares outstanding – basic and diluted	729	708	700
EPS from continuing operations available to Duke Energy common stockholders			
Basic and diluted	\$ 5.07	\$ 3.73	\$ 4.37
Potentially dilutive items excluded from the calculation ^(a)	2	2	2
Dividends declared per common share	\$ 3.75	\$ 3.64	\$ 3.49
Dividends declared on Series A preferred stock per depositary share	\$ 1.03	\$ —	\$ —

(a) Performance stock awards were not included in the dilutive securities calculation because the performance measures related to the awards had not been met.

Common Stock

In February 2018, Duke Energy filed a prospectus supplement and executed an Equity Distribution Agreement (EDA) under which it may sell up to \$1 billion of its common stock through an ATM offering program, including an equity forward sales component. Under the terms of the EDA, Duke Energy was allowed to issue and sell shares of common stock. The existing ATM offering program expired in September 2019.

In June 2018, Duke Energy marketed two separate tranches, each for 1.3 million shares, of common stock through equity forward transactions under the ATM program. In December 2018, Duke Energy physically settled these equity forwards by delivering 2.6 million shares of common stock in exchange for net proceeds of approximately \$195 million.

In March 2018, Duke Energy marketed an equity offering of 21.3 million shares of common stock through an Underwriting Agreement. In connection with the offering, Duke Energy entered into equity forward sale agreements. The equity forwards required Duke Energy to either physically settle the transactions by issuing 21.3 million shares in exchange for net proceeds at the then-applicable forward sale price specified by the agreements, or net settle in whole or in part through the delivery or receipt of cash or shares. In June 2018, Duke Energy physically settled one-half of the equity forwards by delivering approximately 10.6 million shares of common stock in exchange for net cash proceeds of approximately \$781 million. In December 2018, Duke Energy physically settled the remaining equity forward by delivering 10.6 million shares of common stock in exchange for net cash proceeds of approximately \$766 million.

In March and April 2019, Duke Energy marketed two separate tranches, each for 1.1 million shares, of common stock through equity forward transactions under the ATM program. The first tranche had an initial forward price of \$89.83 per share and the second tranche had an initial forward price of \$88.82 per share. In May and June 2019, a third tranche of 1.6 million shares of common stock was marketed and had an initial forward price of \$86.23. The equity forwards required Duke Energy to either physically settle the transaction by issuing shares in exchange for net proceeds at the then-applicable forward sale price specified by the agreements or net settle in whole or in part through the delivery or receipt of cash or shares. The settlement alternative was at Duke Energy's election. In December 2019, Duke Energy physically settled the equity forwards by delivering 3.8 million shares of common stock in exchange for net cash proceeds of approximately \$331 million.

In November 2019, Duke Energy filed a prospectus supplement and executed an EDA under which it may sell up to \$1.5 billion of its common stock through a new ATM offering program, including an equity forward sales component. Under the terms of the EDA, Duke Energy may issue and sell shares of common stock through September 2022.

In November 2019, Duke Energy marketed an equity offering of 28.75 million shares of common stock through an Underwriting Agreement. In connection with the offering, Duke Energy entered into equity forward sales agreements with an initial forward price of \$85.99 per share. The equity forward sales agreements require Duke Energy to either physically settle the transaction by issuing shares in exchange for net proceeds at the then-applicable forward sale price specified by the agreement, or net settle in whole or in part through the delivery or receipt of cash or shares. The settlement alternatives are at Duke Energy's election. Settlement of the forward sales agreements are expected to occur on or prior to December 31, 2020. If Duke Energy had elected to net share settle these contracts as of December 31, 2019, Duke Energy would have been required to deliver 1.6 million shares.

For the years ended December 31, 2019, and 2018, Duke Energy issued 1.8 million and 2.2 million shares, respectively, through its DRIP with an increase in additional paid-in capital of approximately \$160 million and \$174 million, respectively.

Preferred Stock

On March 29, 2019, Duke Energy completed the issuance of 40 million depository shares, each representing 1/1,000th share of its Series A Cumulative Redeemable Perpetual Preferred Stock, at a price of \$25 per depository share. The transaction resulted in net proceeds of \$973 million after issuance costs with proceeds used for general corporate purposes and to reduce short-term debt. The preferred stock has a \$25 liquidation preference per depository share and earns dividends on a cumulative basis at a rate of 5.75% per annum. Dividends are payable quarterly in arrears on the 16th day of March, June, September and December, and began on June 16, 2019.

The Series A Preferred Stock has no maturity or mandatory redemption date, is not redeemable at the option of the holders and includes separate call options. The first call option allows Duke Energy to call the Series A Preferred Stock at a redemption price of \$25.50 per depository share prior to June 15, 2024, in whole but not in part, at any time within 120 days after a ratings event where a rating agency amends, clarifies or changes the criteria it uses to assign equity credit for securities such as the preferred stock. The second call option allows Duke Energy to call the preferred stock, in whole or in part, at any time, on or after June 15, 2024, at a redemption price of \$25 per depository share. Duke Energy is also required to redeem all accumulated and unpaid dividends if either call option is exercised.

On September 12, 2019, Duke Energy completed the issuance of 1 million shares of its Series B Fixed-Rate Reset Cumulative Redeemable Perpetual Preferred Stock, at a price of \$1,000 per share. The transaction resulted in net proceeds of \$989 million after issuance costs with proceeds being used to pay down short-term debt, repay at maturity \$500 million senior notes due September 2019, and for general corporate purposes. The preferred stock has a \$1,000 liquidation preference per share and earns dividends on a cumulative basis at an initial rate of 4.875% per annum. Dividends are payable semiannually in arrears on the 16th day of March and September, beginning on March 16, 2020. On September 16, 2024, the First Call Date, and any fifth anniversary of the First Call Date (each a Reset Date), the dividend rate will reset based on the then current five-year U.S. treasury rate plus a spread of 3.388%.

The Series B Preferred Stock has no maturity or mandatory redemption date, is not redeemable at the option of the holders and includes separate call options. The first call option allows Duke Energy to call the Series B Preferred Stock at a redemption price of \$1,020 per share, in whole but not in part, at any time within 120 days after a ratings event. The second call option allows Duke Energy to call the preferred stock, in whole or in part, on the First Call Date or any subsequent Reset Date at a redemption price in cash equal to \$1,000 per share. Duke Energy is also required to redeem all accumulated and unpaid dividends if either call option is exercised.

Dividends issued on its Series A and Series B Preferred Stock are subject to approval by the Board of Directors. However, the deferral of dividend payments on the preferred stock prohibits the declaration of common stock dividends.

FINANCIAL STATEMENTS

STOCKHOLDERS' EQUITY

The Series A and Series B Preferred Stock rank, with respect to dividends and distributions upon liquidation or dissolution:

- senior to Common Stock and to each other class or series of capital stock established after the original issue date of the Series A and Series B Preferred Stock that is expressly made subordinated to the Series A and Series B Preferred Stock;
- on a parity with any class or series of capital stock established after the original issue date of the Series A and Series B Preferred Stock that is not expressly made senior or subordinated to the Series A or Series B Preferred Stock;
- junior to any class or series of capital stock established after the original issue date of the Series A and Series B Preferred Stock that is expressly made senior to the Series A or Series B Preferred Stock;
- junior to all existing and future indebtedness (including indebtedness outstanding under Duke Energy's credit facilities, unsecured senior notes, junior subordinated debentures and commercial paper) and other liabilities with respect to assets available to satisfy claims against Duke Energy; and
- structurally subordinated to existing and future indebtedness and other liabilities of Duke Energy's subsidiaries and future preferred stock of subsidiaries.

Holders of Series A and Series B Preferred Stock have no voting rights with respect to matters that generally require the approval of voting stockholders. The limited voting rights of holders of Series A and Series B Preferred Stock include the right to vote as a single class, respectively, on certain matters that may affect the preference or special rights of the preferred stock, except in the instance that Duke Energy elects to defer the payment of dividends for a total of six quarterly full dividend periods for Series A Preferred Stock or three semiannual full dividend periods for Series B Preferred Stock. If dividends are deferred for a cumulative total of six quarterly full dividend periods for Series A Preferred Stock or three semiannual full dividend periods for Series B Preferred Stock, whether or not for consecutive dividend periods, holders of the respective preferred stock have the right to elect two additional Board members to the Board of Directors.

21. SEVERANCE

During 2018, Duke Energy reviewed its operations and identified opportunities for improvement to better serve its customers. This operational review included the company's workforce strategy and staffing levels to ensure the company was staffed with the right skillsets and number of teammates to execute the long-term vision for Duke Energy. As such, Duke Energy extended voluntary and involuntary severance benefits to certain employees in specific areas as a part of workforce planning and digital transformation efforts.

The following table presents the direct and allocated severance and related charges accrued for approximately 140 employees in 2019, 1,900 employees in 2018 and 100 employees in 2017 by the Duke Energy Registrants within Operation, maintenance and other on the Consolidated Statements of Operations.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Year Ended December 31, 2019	\$ 16	\$ 8	\$ 6	\$ 3	\$ 3	\$ —	\$ 1	\$ 1
Year Ended December 31, 2018	187	102	69	52	17	6	7	2
Year Ended December 31, 2017	15	2	2	1	1	—	1	9

The table below presents the severance liability for past and ongoing severance plans including the plans described above.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Balance at December 31, 2018	\$ 205	\$ 100	\$ 51	\$ 41	\$ 9	\$ 2	\$ 2	\$ —
Provision/Adjustments	24	4	11	2	10	1	1	—
Cash Reductions	(188)	(93)	(49)	(37)	(12)	(2)	(1)	—
Balance at December 31, 2019	\$ 41	\$ 11	\$ 13	\$ 6	\$ 7	\$ 1	\$ 2	\$ —

22. STOCK-BASED COMPENSATION

The Duke Energy Corporation 2015 Long-Term Incentive Plan (the 2015 Plan) provides for the grant of stock-based compensation awards to employees and outside directors. The 2015 Plan reserves 10 million shares of common stock for issuance. Duke Energy has historically issued new shares upon exercising or vesting of share-based awards. However, Duke Energy may use a combination of new share issuances and open market repurchases for share-based awards that are exercised or vest in the future. Duke Energy has not determined with certainty the amount of such new share issuances or open market repurchases.

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FINANCIAL STATEMENTS

STOCK-BASED COMPENSATION

The following table summarizes the total expense recognized by the Duke Energy Registrants, net of tax, for stock-based compensation.

(in millions)	Years Ended December 31,		
	2019	2018	2017
Duke Energy	\$ 65	\$ 56	\$ 43
Duke Energy Carolinas	24	20	15
Progress Energy	24	21	16
Duke Energy Progress	15	13	10
Duke Energy Florida	9	8	6
Duke Energy Ohio	5	4	3
Duke Energy Indiana	6	5	4
Piedmont	3	3	3

Duke Energy's pretax stock-based compensation costs, the tax benefit associated with stock-based compensation expense and stock-based compensation costs capitalized are included in the following table.

(in millions)	Years Ended December 31,		
	2019	2018	2017
RSU awards	\$ 44	\$ 43	\$ 41
Performance awards	45	35	27
Pretax stock-based compensation cost	\$ 89	\$ 78	\$ 68
Stock-based compensation costs capitalized	5	5	4
Stock-based compensation expense	\$ 84	\$ 73	\$ 64
Tax benefit associated with stock-based compensation expense	\$ 19	\$ 17	\$ 25

RESTRICTED STOCK UNIT AWARDS

RSU awards generally vest over periods from immediate to three years. Fair value amounts are based on the market price of Duke Energy's common stock on the grant date. The following table includes information related to RSU awards.

	Years Ended December 31,		
	2019	2018	2017
Shares granted (in thousands)	571	649	583
Fair value (in millions)	\$ 51	\$ 49	\$ 47

The following table summarizes information about RSU awards outstanding.

	Shares (in thousands)	Weighted Average Grant Date Fair Value (per share)	
Outstanding at December 31, 2018	1,153	\$	77
Granted	571		89
Vested	(631)		77
Forfeited	(83)		82
Outstanding at December 31, 2019	1,010		83
RSU awards expected to vest	951		83

The total grant date fair value of shares vested during the years ended December 31, 2019, 2018 and 2017, was \$49 million, \$43 million and \$42 million, respectively. At December 31, 2019, Duke Energy had \$30 million of unrecognized compensation cost, which is expected to be recognized over a weighted average period of 23 months. Prior to Duke Energy's acquisition of Piedmont, Piedmont had an incentive compensation plan that had a series of three-year performance and RSU awards for eligible officers and other participants. The 2016-2018 performance award cycle was approved subsequent to the Agreement and Plan of Merger between Duke Energy and Piedmont and was converted into a Duke Energy RSU award at the consummation of the acquisition.

PERFORMANCE AWARDS

Stock-based performance awards generally vest after three years if performance targets are met. The actual number of shares issued will range from zero to 200% of target shares, depending on the level of performance achieved.

FINANCIAL STATEMENTS

STOCK-BASED COMPENSATION

Performance awards contain performance conditions and a market condition. The performance conditions are based on Duke Energy's cumulative adjusted EPS and total incident case rate (total incident case rate is one of our key employee safety metrics). The market condition is based on TSR of Duke Energy relative to a predefined peer group.

Relative TSR is valued using a path-dependent model that incorporates expected relative TSR into the fair value determination of Duke Energy's performance-based share awards. The model uses three-year historical volatilities and correlations for all companies in the predefined peer group, including Duke Energy, to simulate Duke Energy's relative TSR as of the end of the performance period. For each simulation, Duke Energy's relative TSR associated with the simulated stock price at the end of the performance period plus expected dividends within the period results in a value per share for the award portfolio. The average of these simulations is the expected portfolio value per share. Actual life to date results of Duke Energy's relative TSR for each grant are incorporated within the model. For performance awards granted in 2019, the model used a risk-free interest rate of 2.5%, which reflects the yield on three-year Treasury bonds as of the grant date, and an expected volatility of 14.8% based on Duke Energy's historical volatility over three years using daily stock prices.

The following table includes information related to stock-based performance awards.

	Years Ended December 31,		
	2019	2018	2017
Shares granted assuming target performance (in thousands)	320	372	461
Fair value (in millions)	\$ 27	\$ 27	\$ 37

The following table summarizes information about stock-based performance awards outstanding and assumes payout at the target level.

	Shares (in thousands)	Weighted Average Grant Date Fair Value (per share)	
Outstanding at December 31, 2018	1,117	\$	77
Granted	320		86
Vested	(310)		75
Forfeited	(18)		81
Outstanding at December 31, 2019	1,109		80
Stock-based performance awards expected to vest	1,080		80

The total grant date fair value of shares vested during the years ended December 31, 2019, and 2018, was \$23 million and \$13 million, respectively. No performance awards vested during the year ended December 31, 2017. At December 31, 2019, Duke Energy had \$27 million of unrecognized compensation cost, which is expected to be recognized over a weighted average period of 22 months.

23. EMPLOYEE BENEFIT PLANS

DEFINED BENEFIT RETIREMENT PLANS

Duke Energy and certain subsidiaries maintain, and the Subsidiary Registrants participate in, qualified, non-contributory defined benefit retirement plans. The Duke Energy plans cover most employees using a cash balance formula. Under a cash balance formula, a plan participant accumulates a retirement benefit consisting of pay credits based upon a percentage of current eligible earnings, age or age and years of service and interest credits. Certain employees are eligible for benefits that use a final average earnings formula. Under these final average earnings formulas, a plan participant accumulates a retirement benefit equal to the sum of percentages of their (i) highest three-year, four-year, or five-year average earnings, (ii) highest three-year, four-year, or five-year average earnings in excess of covered compensation per year of participation (maximum of 35 years) or (iii) highest three-year average earnings times years of participation in excess of 35 years. Duke Energy also maintains, and the Subsidiary Registrants participate in, non-qualified, non-contributory defined benefit retirement plans that cover certain executives. The qualified and non-qualified, non-contributory defined benefit plans are closed to new participants.

Duke Energy approved plan amendments to restructure its qualified non-contributory defined benefit retirement plans, effective January 1, 2018. The restructuring involved (i) the spin-off of the majority of inactive participants from two plans into a separate inactive plan and (ii) the merger of the active participant portions of such plans, along with a pension plan acquired as part of the Piedmont transaction, into a single active plan. Benefits offered to the plan participants remain unchanged except that the Piedmont plan's final average earnings formula was frozen as of December 31, 2017, and affected participants were moved into the active plan's cash balance formula. Actuarial gains and losses associated with the Inactive Plan will be amortized over the remaining life expectancy of the inactive participants. The longer amortization period lowered Duke Energy's 2018 pretax qualified pension plan expense by approximately \$33 million.

Duke Energy uses a December 31 measurement date for its defined benefit retirement plan assets and obligations.

As a result of the application of settlement accounting due to total lump-sum benefit payments exceeding the settlement threshold (defined as the sum of the service cost and interest cost on projected benefit obligation components of net periodic pension costs) for one of its qualified pension plans, Duke Energy recognized settlement charges of \$94 million, primarily as a regulatory asset within Other Noncurrent Assets on the Consolidated Balance Sheets as of December 31, 2019 (an immaterial amount was recorded in Other income and expenses, net within the Consolidated Statement of Operations).

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FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Settlement charges recognized by the Subsidiary Registrants as of December 31, 2019, which represent amounts allocated by Duke Energy for employees of the Subsidiary Registrants and allocated charges for their proportionate share of settlement charges for employees of Duke Energy's shared services affiliate, were \$53 million for Duke Energy Carolinas, \$26 million for Progress Energy, \$20 million for Duke Energy Progress, \$6 million for Duke Energy Florida, \$4 million for Duke Energy Indiana, \$2 million for Duke Energy Ohio and \$8 million for Piedmont.

The settlement charges reflect the recognition of a pro-rata portion of previously unrecognized actuarial losses, equal to the percentage of reduction in the projected benefit obligation resulting from total lump-sum benefit payments as of December 31, 2019. Settlement charges recognized as a regulatory asset within Other Noncurrent Assets on the Consolidated Balance Sheets are amortized over the average remaining service period for participants in the plan. Amortization of settlement charges is disclosed in the tables below as a component of net periodic pension costs.

Net periodic benefit costs disclosed in the tables below represent the cost of the respective benefit plan for the periods presented prior to capitalization of amounts reflected as Net property, plant and equipment, on the Consolidated Balance Sheets. Only the service cost component of net periodic benefit costs is eligible to be capitalized. The remaining non-capitalized portions of net periodic benefit costs are classified as either: (1) service cost, which is recorded in Operations, maintenance and other on the Consolidated Statements of Operations; or as (2) components of non-service cost, which is recorded in Other income and expenses, net, on the Consolidated Statements of Operations. Amounts presented in the tables below for the Subsidiary Registrants represent the amounts of pension and other post-retirement benefit cost allocated by Duke Energy for employees of the Subsidiary Registrants. Additionally, the Consolidated Statements of Operations of the Subsidiary Registrants also include allocated net periodic benefit costs for their proportionate share of pension and post-retirement benefit cost for employees of Duke Energy's shared services affiliate that provide support to the Subsidiary Registrants. However, in the tables below, these amounts are only presented within the Duke Energy column (except for amortization of settlement charges). These allocated amounts are included in the governance and shared service costs discussed in Note 14.

Duke Energy's policy is to fund amounts on an actuarial basis to provide assets sufficient to meet benefit payments to be paid to plan participants. Duke Energy does not anticipate making any contributions in 2020. The following table includes information related to the Duke Energy Registrants' contributions to its qualified defined benefit pension plans.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Contributions Made:								
2019	\$ 77	\$ 7	\$ 57	\$ 4	\$ 53	\$ 2	\$ 2	\$ 1
2018	141	46	45	25	20	—	8	—
2017	19	—	—	—	—	4	—	11

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FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

QUALIFIED PENSION PLANS

Components of Net Periodic Pension Costs

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 158	\$ 49	\$ 46	\$ 26	\$ 20	\$ 4	\$ 9	\$ 5
Interest cost on projected benefit obligation	317	75	100	45	54	18	26	10
Expected return on plan assets	(567)	(147)	(178)	(88)	(89)	(28)	(43)	(22)
Amortization of actuarial loss	108	24	39	15	24	4	8	8
Amortization of prior service credit	(32)	(8)	(3)	(2)	(1)	—	(2)	(9)
Amortization of settlement charges	6	2	1	1	—	2	—	—
Net periodic pension costs ^{(a)(b)}	\$ (10)	\$ (5)	\$ 5	\$ (3)	\$ 8	\$ —	\$ (2)	\$ (8)

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 182	\$ 58	\$ 51	\$ 29	\$ 22	\$ 5	\$ 11	\$ 7
Interest cost on projected benefit obligation	299	72	94	43	50	17	23	11
Expected return on plan assets	(559)	(147)	(178)	(85)	(91)	(28)	(42)	(22)
Amortization of actuarial loss	132	29	44	21	23	5	10	11
Amortization of prior service credit	(32)	(8)	(3)	(2)	(1)	—	(2)	(10)
Net periodic pension costs ^{(a)(b)}	\$ 22	\$ 4	\$ 8	\$ 6	\$ 3	\$ (1)	\$ —	\$ (3)

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 159	\$ 48	\$ 45	\$ 26	\$ 19	\$ 4	\$ 9	\$ 10
Interest cost on projected benefit obligation	328	79	100	47	53	18	26	14
Expected return on plan assets	(545)	(142)	(167)	(82)	(85)	(27)	(42)	(24)
Amortization of actuarial loss	146	31	52	23	29	5	12	11
Amortization of prior service credit	(24)	(8)	(3)	(2)	(1)	(1)	(2)	(2)
Settlement charge	12	—	—	—	—	—	—	12
Other	8	2	2	1	1	—	1	1
Net periodic pension costs ^{(a)(b)}	\$ 84	\$ 10	\$ 29	\$ 13	\$ 16	\$ (1)	\$ 4	\$ 22

- (a) Duke Energy amounts exclude \$4 million, \$5 million and \$7 million for the years ended December 2019, 2018 and 2017, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.
- (b) Duke Energy Ohio amounts exclude \$2 million, \$2 million and \$3 million for the years ended December 2019, 2018 and 2017, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.

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FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Amounts Recognized in Accumulated Other Comprehensive Income and Regulatory Assets

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net increase (decrease)	\$ (212)	\$ (156)	\$ (79)	\$ (59)	\$ (20)	\$ 12	\$ 22	\$ —
Accumulated other comprehensive loss (income)								
Deferred income tax expense (benefit)	\$ 20	—	1	—	(1)	—	—	—
Amortization of prior year service credit	1	—	—	—	—	—	—	—
Amortization of prior year actuarial losses	(15)	—	(2)	—	3	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ 6	\$ —	\$ (1)	\$ —	\$ 2	\$ —	\$ —	\$ —

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net increase	\$ 298	\$ 170	\$ 40	\$ 31	\$ 9	\$ 10	\$ 30	\$ 8
Accumulated other comprehensive (income) loss								
Deferred income tax expense	\$ (2)	\$ —	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —
Prior year service credit arising during the year	1	—	—	—	—	—	—	—
Amortization of prior year actuarial losses	10	—	(4)	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ 9	\$ —	\$ (3)	\$ —	\$ —	\$ —	\$ —	\$ —

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FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Reconciliation of Funded Status to Net Amount Recognized

	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
(in millions)								
Change in Projected Benefit Obligation								
Obligation at prior measurement date	\$ 7,869	\$ 1,954	\$ 2,433	\$ 1,125	\$ 1,295	\$ 435	\$ 618	\$ 264
Service cost	150	47	43	25	18	4	8	5
Interest cost	317	75	100	45	54	18	26	10
Actuarial loss	716	101	223	87	135	54	87	33
Transfers	—	11	—	—	—	—	—	—
Benefits paid	(731)	(265)	(191)	(112)	(78)	(30)	(46)	(20)
Obligation at measurement date	\$ 8,321	\$ 1,923	\$ 2,608	\$ 1,170	\$ 1,424	\$ 481	\$ 693	\$ 292
Accumulated Benefit Obligation at measurement date	\$ 8,262	\$ 1,923	\$ 2,578	\$ 1,170	\$ 1,392	\$ 471	\$ 686	\$ 292
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 8,233	\$ 2,168	\$ 2,606	\$ 1,268	\$ 1,322	\$ 405	\$ 611	\$ 305
Employer contributions	77	7	57	4	53	2	2	1
Actual return on plan assets	1,331	342	426	204	218	66	100	49
Benefits paid	(731)	(265)	(191)	(112)	(78)	(30)	(46)	(20)
Transfers	—	11	—	—	—	—	—	—
Plan assets at measurement date	\$ 8,910	\$ 2,263	\$ 2,898	\$ 1,364	\$ 1,515	\$ 443	\$ 667	\$ 335
Funded status of plan	\$ 589	\$ 340	\$ 290	\$ 194	\$ 91	\$ (38)	\$ (26)	\$ 43

	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
(in millions)								
Change in Projected Benefit Obligation								
Obligation at prior measurement date	\$ 8,448	\$ 2,029	\$ 2,637	\$ 1,211	\$ 1,410	\$ 479	\$ 669	\$ 313
Service cost	174	56	49	28	21	5	10	7
Interest cost	299	72	94	43	50	17	23	11
Actuarial gain	(485)	(44)	(204)	(87)	(114)	(29)	(29)	(18)
Transfers	—	—	—	—	—	—	—	(16)
Benefits paid	(567)	(159)	(143)	(70)	(72)	(37)	(55)	(33)
Obligation at measurement date	\$ 7,869	\$ 1,954	\$ 2,433	\$ 1,125	\$ 1,295	\$ 435	\$ 618	\$ 264
Accumulated Benefit Obligation at measurement date	\$ 7,818	\$ 1,954	\$ 2,404	\$ 1,125	\$ 1,265	\$ 425	\$ 614	\$ 264
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 9,003	\$ 2,372	\$ 2,814	\$ 1,366	\$ 1,429	\$ 458	\$ 684	\$ 368
Employer contributions	141	46	45	25	20	—	8	—
Actual return on plan assets	(344)	(91)	(110)	(53)	(55)	(16)	(26)	(14)
Benefits paid	(567)	(159)	(143)	(70)	(72)	(37)	(55)	(33)
Transfers	—	—	—	—	—	—	—	(16)
Plan assets at measurement date	\$ 8,233	\$ 2,168	\$ 2,606	\$ 1,268	\$ 1,322	\$ 405	\$ 611	\$ 305
Funded status of plan	\$ 364	\$ 214	\$ 173	\$ 143	\$ 27	\$ (30)	\$ (7)	\$ 41

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FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Amounts Recognized in the Consolidated Balance Sheets

(in millions)	December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
	Energy	Carolinas	Energy	Progress	Florida	Ohio	Indiana	Piedmont
Prefunded pension ^(a)	\$ 621	\$ 340	\$ 322	\$ 194	\$ 123	\$ 38	\$ 57	\$ 43
Noncurrent pension liability ^(b)	\$ 32	\$ —	\$ 32	\$ —	\$ 32	\$ 76	\$ 83	\$ —
Net asset (liability) recognized	\$ 589	\$ 340	\$ 290	\$ 194	\$ 91	\$ (38)	\$ (26)	\$ 43
Regulatory assets	\$ 1,972	\$ 420	\$ 717	\$ 313	\$ 404	\$ 112	\$ 204	\$ 81
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (23)	\$ —	\$ (1)	\$ —	\$ (1)	\$ —	\$ —	\$ —
Prior service credit	(3)	—	—	—	—	—	—	—
Net actuarial loss	111	—	3	—	3	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 85	\$ —	\$ 2	\$ —	\$ 2	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension costs in the next year								
Unrecognized net actuarial loss	\$ 135	\$ 29	\$ 43	\$ 19	\$ 24	\$ 7	\$ 10	\$ 9
Unrecognized prior service credit	(32)	(8)	(3)	(2)	(1)	(1)	(2)	(9)
(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
	Energy	Carolinas	Energy	Progress	Florida	Ohio	Indiana	Piedmont
Prefunded pension ^(a)	\$ 433	\$ 214	\$ 242	\$ 143	\$ 96	\$ 24	\$ 39	\$ 41
Noncurrent pension liability ^(b)	\$ 69	\$ —	\$ 69	\$ —	\$ 69	\$ 54	\$ 46	\$ —
Net asset recognized	\$ 364	\$ 214	\$ 173	\$ 143	\$ 27	\$ (30)	\$ (7)	\$ 41
Regulatory assets	\$ 2,184	\$ 576	\$ 796	\$ 372	\$ 424	\$ 100	\$ 182	\$ 81
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (43)	\$ —	\$ (2)	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(4)	—	—	—	—	—	—	—
Net actuarial loss	126	—	5	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 79	\$ —	\$ 3	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension costs in the next year								
Unrecognized net actuarial loss	\$ 97	\$ 22	\$ 37	\$ 13	\$ 24	\$ 3	\$ 5	\$ 7
Unrecognized prior service credit	\$ (32)	\$ (8)	\$ (3)	\$ (2)	\$ (1)	\$ —	\$ (2)	\$ (9)

(a) Included in Other within Other Noncurrent Assets on the Consolidated Balance Sheets.

(b) Included in Accrued pension and other post-retirement benefit costs on the Consolidated Balance Sheets.

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FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Information for Plans with Accumulated Benefit Obligation in Excess of Plan Assets

(in millions)	December 31, 2019	
	Duke Energy Ohio	Duke Energy Indiana
Projected benefit obligation	\$ 155	\$ 260
Accumulated benefit obligation	146	252
Fair value of plan assets	79	177

(in millions)	December 31, 2018				
	Duke Energy	Progress Energy	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Projected benefit obligation	\$ 679	\$ 679	\$ 679	\$ 123	\$ 203
Accumulated benefit obligation	651	651	651	115	199
Fair value of plan assets	610	610	610	69	159

Assumptions Used for Pension Benefits Accounting

The discount rate used to determine the current year pension obligation and following year's pension expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

The average remaining service period for participants in active plans and life expectancy of participants in inactive plans is 12 years for Duke Energy, Duke Energy Carolinas, Progress Energy and Duke Energy Florida, 13 years for Duke Energy Progress, Duke Energy Indiana and Duke Energy Ohio, and 9 years for Piedmont.

The following tables present the assumptions or range of assumptions used for pension benefit accounting.

	December 31,		
	2019	2018	2017
Benefit Obligations			
Discount rate	3.30%	4.30%	3.60%
Salary increase	3.50% – 4.00%	3.50% – 4.00%	3.50% – 4.00%
Net Periodic Benefit Cost			
Discount rate	4.30%	3.60%	4.10%
Salary increase	3.50% – 4.00%	3.50% – 4.00%	4.00% – 4.50%
Expected long-term rate of return on plan assets	6.85%	6.50%	6.50% – 6.75%

Expected Benefit Payments

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Years ending December 31,								
2020	\$ 643	\$ 167	\$ 169	\$ 89	\$ 79	\$ 37	\$ 50	\$ 28
2021	653	171	178	95	82	37	50	24
2022	649	177	176	92	84	37	49	22
2023	649	174	182	95	86	36	48	21
2024	638	168	184	96	87	35	48	20
2025-2029	2,851	714	871	419	448	156	220	87

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

NON-QUALIFIED PENSION PLANS

The accumulated benefit obligation, which equals the projected benefit obligation for non-qualified pension plans, was \$318 million for Duke Energy, \$15 million for Duke Energy Carolinas, \$110 million for Progress Energy, \$32 million for Duke Energy Progress, \$45 million for Duke Energy Florida, \$4 million for Duke Energy Ohio, \$3 million for Duke Energy Indiana and \$4 million for Piedmont as of December 31, 2019.

Employer contributions, which equal benefits paid for non-qualified pension plans, were \$25 million for Duke Energy, \$2 million for Duke Energy Carolinas, \$9 million for Progress Energy, \$3 million for Duke Energy Progress and \$3 million for Duke Energy Florida for the year ended December 31, 2019. Employer contributions were not material for Duke Energy Ohio, Duke Energy Indiana or Piedmont for the year ended December 31, 2019.

Net periodic pension costs for non-qualified pension plans were not material for the years ended December 31, 2019, 2018 or 2017.

OTHER POST-RETIREMENT BENEFIT PLANS

Duke Energy provides, and the Subsidiary Registrants participate in, some health care and life insurance benefits for retired employees on a contributory and non-contributory basis. Employees are eligible for these benefits if they have met age and service requirements at retirement, as defined in the plans. The health care benefits include medical, dental and prescription drug coverage and are subject to certain limitations, such as deductibles and copayments.

Duke Energy did not make any pre-funding contributions to its other post-retirement benefit plans during the years ended December 31, 2019, 2018 or 2017.

Components of Net Periodic Other Post-Retirement Benefit Costs

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 4	\$ 1	\$ 1	\$ —	\$ 1	\$ —	\$ 1	\$ —
Interest cost on accumulated post-retirement benefit obligation	30	7	12	7	5	1	3	1
Expected return on plan assets	(12)	(7)	—	—	—	—	—	(1)
Amortization of actuarial loss	4	2	1	—	1	—	4	—
Amortization of prior service credit	(19)	(5)	(8)	(1)	(7)	(1)	(1)	(2)
Net periodic post-retirement benefit costs ^{(a)(b)}	\$ 7	\$ (2)	\$ 6	\$ 6	\$ —	\$ —	\$ 7	\$ (2)

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 6	\$ 1	\$ 1	\$ —	\$ 1	\$ 1	\$ 1	\$ 1
Interest cost on accumulated post-retirement benefit obligation	28	7	12	6	6	1	3	1
Expected return on plan assets	(13)	(8)	—	—	—	—	—	(2)
Amortization of actuarial loss	6	3	1	1	—	—	4	—
Amortization of prior service credit	(19)	(5)	(8)	(1)	(7)	(1)	(1)	(2)
Net periodic post-retirement benefit costs ^{(a)(b)}	\$ 8	\$ (2)	\$ 6	\$ 6	\$ —	\$ 1	\$ 7	\$ (2)

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FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 4	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 1
Interest cost on accumulated post-retirement benefit obligation	34	8	13	7	6	1	3	1
Expected return on plan assets	(14)	(8)	—	—	—	—	(1)	(2)
Amortization of actuarial loss (gain)	10	(2)	21	12	9	(2)	(1)	1
Amortization of prior service credit	(115)	(10)	(84)	(54)	(30)	—	(1)	—
Curtailment credit ^(c)	(30)	(4)	(16)	—	(16)	(2)	(2)	—
Net periodic post-retirement benefit costs ^{(a)(b)}	\$ (111)	\$ (15)	\$ (66)	\$ (35)	\$ (31)	\$ (3)	\$ (2)	\$ 1

- (a) Duke Energy amounts exclude \$6 million, \$7 million and \$7 million for the years ended December 2019, 2018 and 2017, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.
- (b) Duke Energy Ohio amounts exclude \$2 million, \$2 million and \$2 million for the years ended December 2019, 2018 and 2017, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.
- (c) Curtailment credit resulted from a reduction in average future service of plan participants due to a plan amendment.

Amounts Recognized in Accumulated Other Comprehensive Income and Regulatory Assets and Liabilities

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net increase (decrease)	\$ (127)	\$ —	\$ (127)	\$ (82)	\$ (45)	\$ —	\$ (5)	\$ —
Regulatory liabilities, net increase (decrease)	\$ (152)	\$ 1	\$ (149)	\$ (93)	\$ (56)	\$ (1)	\$ (4)	\$ 3
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amortization of prior year actuarial gain	(4)	—	—	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ (4)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net increase (decrease)	\$ 137	\$ —	\$ 133	\$ 84	\$ 49	\$ —	\$ (5)	\$ 4
Regulatory liabilities, net increase (decrease)	\$ 154	\$ (6)	\$ 149	\$ 93	\$ 56	\$ 2	\$ 3	\$ —
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (1)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amortization of prior year prior service credit	1	—	—	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

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FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Reconciliation of Funded Status to Accrued Other Post-Retirement Benefit Costs

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Accumulated post-retirement benefit obligation at prior measurement date	\$ 728	\$ 174	\$ 303	\$ 166	\$ 137	\$ 29	\$ 67	\$ 30
Service cost	4	1	1	—	1	—	1	—
Interest cost	30	7	12	7	5	1	3	1
Plan participants' contributions	16	3	6	3	2	1	2	—
Actuarial losses	28	9	13	9	5	1	2	—
Transfers	—	—	—	—	—	—	—	—
Benefits paid	(83)	(19)	(32)	(17)	(15)	(3)	(11)	(1)
Accumulated post-retirement benefit obligation at measurement date	\$ 723	\$ 175	\$ 303	\$ 168	\$ 135	\$ 29	\$ 64	\$ 30
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 195	\$ 115	\$ —	\$ —	\$ —	\$ 8	\$ 5	\$ 29
Actual return on plan assets	32	20	(1)	—	—	1	—	6
Benefits paid	(83)	(19)	(32)	(17)	(15)	(3)	(11)	(1)
Employer contributions	60	11	26	13	13	2	9	—
Plan participants' contributions	16	3	6	3	2	1	2	—
Plan assets at measurement date	\$ 220	\$ 130	\$ (1)	\$ (1)	\$ —	\$ 9	\$ 5	\$ 34
Funded status of plan	\$ (503)	\$ (45)	\$ (304)	\$ (169)	\$ (135)	\$ (20)	\$ (59)	\$ 4

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Accumulated post-retirement benefit obligation at prior measurement date	\$ 813	\$ 189	\$ 342	\$ 184	\$ 156	\$ 30	\$ 78	\$ 32
Service cost	6	1	1	—	1	1	1	1
Interest cost	28	7	12	6	6	1	3	1
Plan participants' contributions	18	3	6	4	3	1	2	—
Actuarial losses (gains)	(51)	(8)	(23)	(9)	(13)	(2)	(5)	(1)
Transfers	—	—	—	—	—	—	—	(1)
Benefits paid	(86)	(18)	(35)	(19)	(16)	(2)	(12)	(2)
Accumulated post-retirement benefit obligation at measurement date	\$ 728	\$ 174	\$ 303	\$ 166	\$ 137	\$ 29	\$ 67	\$ 30
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 225	\$ 133	\$ —	\$ —	\$ —	\$ 7	\$ 11	\$ 31
Actual return on plan assets	(8)	(5)	—	—	—	—	—	(1)
Benefits paid	(86)	(18)	(35)	(19)	(16)	(2)	(12)	(2)
Employer contributions (reimbursements)	46	2	29	15	13	2	4	1
Plan participants' contributions	18	3	6	4	3	1	2	—
Plan assets at measurement date	\$ 195	\$ 115	\$ —	\$ —	\$ —	\$ 8	\$ 5	\$ 29
Funded status of plan	\$ (533)	\$ (59)	\$ (303)	\$ (166)	\$ (137)	\$ (21)	\$ (62)	\$ (1)

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Amounts Recognized in the Consolidated Balance Sheets

(in millions)	December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current post-retirement liability ^(a)	\$ 9	\$ —	\$ 5	\$ 3	\$ 2	\$ 1	\$ —	\$ —
Noncurrent post-retirement liability ^(b)	494	45	299	166	133	19	59	(4)
Total accrued post-retirement liability	\$ 503	\$ 45	\$ 304	\$ 169	\$ 135	\$ 20	\$ 59	\$ (4)
Regulatory assets	\$ 135	\$ —	\$ 135	\$ 82	\$ 53	\$ —	\$ 36	\$ —
Regulatory liabilities	\$ 149	\$ 39	\$ —	\$ —	\$ —	\$ 17	\$ 63	\$ 3
Accumulated other comprehensive (income) loss								
Deferred income tax expense	\$ 3	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(2)	—	—	—	—	—	—	—
Net actuarial gain	(13)	—	—	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive income	\$ (12)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year								
Unrecognized net actuarial loss	\$ 5	\$ 3	\$ 1	\$ —	\$ 1	\$ —	\$ —	\$ —
Unrecognized prior service credit	(14)	(4)	(3)	(1)	(2)	(1)	(1)	(2)

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current post-retirement liability ^(a)	\$ 8	\$ —	\$ 5	\$ 3	\$ 2	\$ 2	\$ —	\$ —
Noncurrent post-retirement liability ^(b)	525	59	298	163	135	19	62	1
Total accrued post-retirement liability	\$ 533	\$ 59	\$ 303	\$ 166	\$ 137	\$ 21	\$ 62	\$ 1
Regulatory assets	\$ 262	\$ —	\$ 262	\$ 164	\$ 98	\$ —	\$ 41	\$ —
Regulatory liabilities	\$ 301	\$ 38	\$ 149	\$ 93	\$ 56	\$ 18	\$ 67	\$ —
Accumulated other comprehensive (income) loss								
Deferred income tax expense	\$ 3	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(2)	—	—	—	—	—	—	—
Net actuarial gain	(9)	—	—	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive income	\$ (8)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year								
Unrecognized net actuarial loss (gain)	\$ 4	\$ 2	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —
Unrecognized prior service credit	(19)	(5)	(7)	(1)	(6)	(1)	(1)	(2)

(a) Included in Other within Current Liabilities on the Consolidated Balance Sheets.

(b) Included in Accrued pension and other post-retirement benefit costs on the Consolidated Balance Sheets.

Assumptions Used for Other Post-Retirement Benefits Accounting

The discount rate used to determine the current year other post-retirement benefits obligation and following year's other post-retirement benefits expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

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FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

The average remaining service period of active covered employees is eight years for Duke Energy and Duke Energy Carolinas, seven years for Progress Energy, Duke Energy Florida, and Duke Energy Ohio, and six years for Duke Energy Progress, Duke Energy Indiana, and Piedmont.

The following tables present the assumptions used for other post-retirement benefits accounting.

	December 31,		
	2019	2018	2017
Benefit Obligations			
Discount rate	3.30%	4.30%	3.60%
Net Periodic Benefit Cost			
Discount rate	4.30%	3.60%	4.10%
Expected long-term rate of return on plan assets	6.85%	6.50%	6.50%
Assumed tax rate	23%	35%	35%

Assumed Health Care Cost Trend Rate

	December 31,	
	2019	2018
Health care cost trend rate assumed for next year	6.00%	6.50%
Rate to which the cost trend is assumed to decline (the ultimate trend rate)	4.75%	4.75%
Year that rate reaches ultimate trend	2026	2024

Sensitivity to Changes in Assumed Health Care Cost Trend Rates

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
	Energy	Carolinas	Energy	Progress	Florida	Ohio	Indiana	Piedmont
1-Percentage Point Increase								
Effect on total service and interest costs	\$ 1	\$ —	\$ 1	\$ 1	\$ —	\$ —	\$ —	\$ —
Effect on post-retirement benefit obligation	22	5	9	5	4	1	2	1
1-Percentage Point Decrease								
Effect on total service and interest costs	(1)	—	(1)	(1)	—	—	—	—
Effect on post-retirement benefit obligation	(20)	(5)	(8)	(4)	(4)	(1)	(2)	(1)

Expected Benefit Payments

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
	Energy	Carolinas	Energy	Progress	Florida	Ohio	Indiana	Piedmont
Years ending December 31,								
2020	\$ 76	\$ 18	\$ 29	\$ 16	\$ 13	\$ 4	\$ 8	\$ 2
2021	70	17	28	15	13	3	7	2
2022	66	16	27	14	12	3	7	2
2023	63	15	25	14	12	3	6	2
2024	59	15	24	13	11	3	6	2
2025-2029	246	60	101	55	46	11	23	11

PLAN ASSETS

Description and Allocations

Duke Energy Master Retirement Trust

Assets for both the qualified pension and other post-retirement benefits are maintained in the Duke Energy Master Retirement Trust. Approximately 98% of the Duke Energy Master Retirement Trust assets were allocated to qualified pension plans and approximately 2% were allocated to other post-retirement plans (comprised of 401(h) accounts), as of December 31, 2019, and 2018. The investment objective of the Duke Energy Master Retirement Trust is to invest in a diverse portfolio of assets that is expected to generate positive surplus return over time (i.e. asset growth greater than liability growth) subject to a prudent level of portfolio risk, for the purpose of enhancing the security of benefits for plan participants.

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

As of December 31, 2019, Duke Energy assumes pension and other post-retirement plan assets will generate a long-term rate of return of 6.85%. The expected long-term rate of return was developed using a weighted average calculation of expected returns based primarily on future expected returns across asset classes considering the use of active asset managers, where applicable. The asset allocation targets were set after considering the investment objective and the risk profile. Equity securities are held for their higher expected returns. Debt securities are primarily held to hedge the qualified pension plan liability. Real assets, return seeking fixed income, hedge funds and other global securities are held for diversification. Investments within asset classes are diversified to achieve broad market participation and reduce the impact of individual managers or investments.

Effective January 1, 2019, the target asset allocation for the Duke Energy Retirement Master Trust is 58% liability hedging assets and 42% return-seeking assets. Duke Energy periodically reviews its asset allocation targets, and over time, as the funded status of the benefit plans increase, the level of asset risk relative to plan liabilities may be reduced to better manage Duke Energy's benefit plan liabilities and reduce funded status volatility.

The Duke Energy Master Retirement Trust is authorized to engage in the lending of certain plan assets. Securities lending is an investment management enhancement that utilizes certain existing securities of the Duke Energy Master Retirement Trust to earn additional income. Securities lending involves the loaning of securities to approved parties. In return for the loaned securities, the Duke Energy Master Retirement Trust receives collateral in the form of cash and securities as a safeguard against possible default of any borrower on the return of the loan under terms that permit the Duke Energy Master Retirement Trust to sell the securities. The Duke Energy Master Retirement Trust mitigates credit risk associated with securities lending arrangements by monitoring the fair value of the securities loaned, with additional collateral obtained or refunded as necessary. The fair value of securities on loan was approximately \$351 million and \$154 million at December 31, 2019, and 2018, respectively. Cash and securities obtained as collateral exceeded the fair value of the securities loaned at December 31, 2019, and 2018, respectively. Securities lending income earned by the Duke Energy Master Retirement Trust was immaterial for the years ended December 31, 2019, 2018 and 2017, respectively.

Qualified pension and other post-retirement benefits for the Subsidiary Registrants are derived from the Duke Energy Master Retirement Trust, as such, each are allocated their proportionate share of the assets discussed below.

The following table includes the target asset allocations by asset class at December 31, 2019, and the actual asset allocations for the Duke Energy Master Retirement Trust.

	Target Allocation	Actual Allocation at December 31,	
		2019	2018
U.S. equity securities	—%	—%	11%
Global equity securities	28%	27%	18%
Global private equity securities	1%	1%	2%
Debt securities	58%	57%	63%
Return seeking debt securities	4%	5%	—%
Hedge funds	3%	3%	2%
Real estate and cash	6%	7%	2%
Other global securities	—%	—%	2%
Total	100%	100%	100%

Other post-retirement assets

Duke Energy's other post-retirement assets are comprised of VEBA trusts and 401(h) accounts held within the Duke Energy Master Retirement Trust. Duke Energy's investment objective is to achieve sufficient returns, subject to a prudent level of portfolio risk, for the purpose of promoting the security of plan benefits for participants.

The following table presents target and actual asset allocations for the VEBA trusts at December 31, 2019.

	Target Allocation	Actual Allocation at December 31,	
		2019	2018
U.S. equity securities	33%	35%	43%
Non-U.S. equity securities	7%	9%	8%
Real estate	2%	2%	2%
Debt securities	45%	37%	40%
Cash	13%	17%	7%
Total	100%	100%	100%

Fair Value Measurements

Duke Energy classifies recurring and non-recurring fair value measurements based on the fair value hierarchy as discussed in Note 17.

Valuation methods of the primary fair value measurements disclosed below are as follows:

Investments in equity securities

Investments in equity securities are typically valued at the closing price in the principal active market as of the last business day of the reporting period. Principal active markets for equity prices include published exchanges such as NASDAQ and NYSE. Foreign equity prices are translated from their trading currency using the currency exchange rate in effect at the close of the principal active market. Prices have not been adjusted to reflect after-hours market activity. The majority of investments in equity securities are valued using Level 1 measurements. When the price of an institutional commingled fund is unpublished, it is not categorized in the fair value hierarchy, even though the funds are readily available at the fair value.

Investments in corporate debt securities and U.S. government securities

Most debt investments are valued based on a calculation using interest rate curves and credit spreads applied to the terms of the debt instrument (maturity and coupon interest rate) and consider the counterparty credit rating. Most debt valuations are Level 2 measurements. If the market for a particular fixed-income security is relatively inactive or illiquid, the measurement is Level 3. U.S. Treasury debt is typically Level 2.

Investments in short-term investment funds

Investments in short-term investment funds are valued at the net asset value of units held at year end and are readily redeemable at the measurement date. Investments in short-term investment funds with published prices are valued as Level 1. Investments in short-term investment funds with unpublished prices are valued as Level 2.

Investments in real estate limited partnerships

Investments in real estate limited partnerships are valued by the trustee at each valuation date (monthly). As part of the trustee's valuation process, properties are externally appraised generally on an annual basis, conducted by reputable, independent appraisal firms, and signed by appraisers that are members of the Appraisal Institute, with the professional designation MAI. Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. There are three valuation techniques that can be used to value investments in real estate assets: the market, income or cost approach. The appropriateness of each valuation technique depends on the type of asset or business being valued. In addition, the trustee may cause additional appraisals to be performed as warranted by specific asset or market conditions. Property valuations and the salient valuation-sensitive assumptions of each direct investment property are reviewed by the trustee quarterly and values are adjusted if there has been a significant change in circumstances related to the investment property since the last valuation. Value adjustments for interim capital expenditures are only recognized to the extent that the valuation process acknowledges a corresponding increase in fair value. An independent firm is hired to review and approve quarterly direct real estate valuations. Key inputs and assumptions used to determine fair value includes among others, rental revenue and expense amounts and related revenue and expense growth rates, terminal capitalization rates and discount rates. Development investments are valued using cost incurred to date as a primary input until substantive progress is achieved in terms of mitigating construction and leasing risk at which point a discounted cash flow approach is more heavily weighted. Key inputs and assumptions in addition to those noted above used to determine the fair value of development investments include construction costs and the status of construction completion and leasing. Investments in real estate limited partnerships are valued at net asset value of units held at year end and are not readily redeemable at the measurement date. Investments in real estate limited partnerships are not categorized within the fair value hierarchy.

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FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Duke Energy Master Retirement Trust

The following tables provide the fair value measurement amounts for the Duke Energy Master Retirement Trust qualified pension and other post-retirement assets.

(in millions)	December 31, 2019					Not
	Total Fair Value	Level 1	Level 2	Level 3	Categorized ^(b)	
Equity securities	\$ 2,730	\$ 2,712	\$ —	\$ —	\$ 18	
Corporate debt securities	3,999	—	3,999	—	—	
Short-term investment funds	545	455	90	—	—	
Partnership interests	104	—	—	—	104	
Hedge funds	206	—	—	—	206	
Real estate limited partnerships	—	—	—	—	—	
U.S. government securities	1,231	—	1,231	—	—	
Guaranteed investment contracts	11	—	—	11	—	
Governments bonds – foreign	78	—	78	—	—	
Cash	75	75	—	—	—	
Net pending transactions and other investments	46	(43)	89	—	—	
Total assets ^(a)	\$ 9,025	\$ 3,199	\$ 5,487	\$ 11	\$ 328	

- (a) Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana, and Piedmont were allocated approximately 26%, 31%, 15%, 17%, 5%, 7%, and 4%, respectively, of the Duke Energy Master Retirement Trust at December 31, 2019. Accordingly, all amounts included in the table above are allocable to the Subsidiary Registrants using these percentages.
- (b) Certain investments that are measured at fair value using the net asset value per share practical expedient have not been categorized in the fair value hierarchy.

(in millions)	December 31, 2018					Not
	Total Fair Value	Level 1	Level 2	Level 3	Categorized ^(b)	
Equity securities	\$ 2,373	\$ 1,751	\$ —	\$ —	\$ 622	
Corporate debt securities	4,054	—	4,054	—	—	
Short-term investment funds	363	279	84	—	—	
Partnership interests	120	—	—	—	120	
Hedge funds	226	—	—	—	226	
Real estate limited partnerships	144	—	—	—	144	
U.S. government securities	961	—	961	—	—	
Guaranteed investment contracts	27	—	—	27	—	
Governments bonds – foreign	30	—	30	—	—	
Cash	28	28	—	—	—	
Net pending transactions and other investments	(2)	(6)	4	—	—	
Total assets ^(a)	\$ 8,324	\$ 2,052	\$ 5,133	\$ 27	\$ 1,112	

- (a) Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana, and Piedmont were allocated approximately 27%, 31%, 15%, 16%, 5%, 7%, and 4%, respectively, of the Duke Energy Master Retirement Trust and Piedmont's Pension assets at December 31, 2018. Accordingly, all amounts included in the table above are allocable to the Subsidiary Registrants using these percentages.
- (b) Certain investments that are measured at fair value using the net asset value per share practical expedient have not been categorized in the fair value hierarchy.

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FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

The following table provides a reconciliation of beginning and ending balances of Duke Energy Master Retirement Trust qualified pension and other post-retirement assets at fair value on a recurring basis where the determination of fair value includes significant unobservable inputs (Level 3).

(in millions)	2019	2018
Balance at January 1	\$ 27	\$ 28
Sales	(18)	(1)
Total gains and other, net	2	—
Transfer of Level 3 assets to other classifications	—	—
Balance at December 31	\$ 11	\$ 27

Other post-retirement assets

The following tables provide the fair value measurement amounts for VEBA trust assets.

(in millions)	December 31, 2019	
	Total Fair Value	Level 2
Cash and cash equivalents	\$ 9	\$ 9
Real estate	1	1
Equity securities	22	22
Debt securities	18	18
Total assets	\$ 50	\$ 50

(in millions)	December 31, 2018	
	Total Fair Value	Level 2
Cash and cash equivalents	\$ 3	\$ 3
Real estate	1	1
Equity securities	25	25
Debt securities	20	20
Total assets	\$ 49	\$ 49

EMPLOYEE SAVINGS PLANS

Retirement Savings Plan

Duke Energy or its affiliates sponsor, and the Subsidiary Registrants participate in, employee savings plans that cover substantially all U.S. employees. Most employees participate in a matching contribution formula where Duke Energy provides a matching contribution generally equal to 100% of employee before-tax and Roth 401(k) contributions of up to 6% of eligible pay per pay period. Dividends on Duke Energy shares held by the savings plans are charged to retained earnings when declared and shares held in the plans are considered outstanding in the calculation of basic and diluted EPS.

For new and rehired employees who are not eligible to participate in Duke Energy's defined benefit plans, an additional employer contribution of 4% of eligible pay per pay period, which is subject to a three-year vesting schedule, is provided to the employee's savings plan account. Certain Piedmont employees whose participation in a prior Piedmont defined benefit plan (that was frozen as of December 31, 2017) are eligible for employer transition credit contributions of 3% to 5% of eligible pay per period, for each pay period during the three-year period ending December 31, 2020.

The following table includes pretax employer matching contributions made by Duke Energy and expensed by the Subsidiary Registrants.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Years ended December 31,								
2019	\$ 214	\$ 66	\$ 58	\$ 38	\$ 20	\$ 5	\$ 11	\$ 13
2018	213	68	58	40	19	4	10	12
2017	179	61	53	37	16	3	9	7

24. INCOME TAXES

Tax Act

On December 22, 2017, President Trump signed the Tax Act into law. Among other provisions, the Tax Act lowered the corporate federal income tax rate from 35% to 21%, limits interest deductions outside of regulated utility operations, requires the normalization of excess deferred taxes associated with property under the average rate assumption method as a prerequisite to qualifying for accelerated depreciation and repealed the federal manufacturing deduction. The Tax Act also repealed the corporate AMT and stipulates a refund of 50% of remaining AMT credit carryforwards (to the extent the credits exceed regular tax for the year) for tax years 2018, 2019, and 2020, with all remaining AMT credits to be refunded in tax year 2021.

On December 22, 2017, the SEC staff issued Staff Accounting Bulletin (SAB) 118, Income Tax Accounting Implications of the Tax Cuts and Jobs Act, which provides guidance on accounting for the Tax Act's impact. SAB 118 provides a measurement period, which in no case should extend beyond one year from the Tax Act enactment date, during which a company acting in good faith may complete the accounting for the impacts of the Tax Act under ASC Topic 740. In accordance with SAB 118, a company must reflect the income tax effects of the Tax Act in the reporting period in which the accounting under ASC Topic 740 is complete. To the extent that a company's accounting for certain income tax effects of the Tax Act is incomplete, a company can determine a reasonable estimate for those effects and record a provisional estimate in the financial statements in the first reporting period in which a reasonable estimate can be determined.

As of December 31, 2018, the accounting for the effects of the Tax Act was complete. During the year ended December 31, 2018, Duke Energy recorded the following measurement period adjustments in accordance with SAB 118:

- Additional tax expense of \$23 million related to the completion of the analysis of Duke Energy's existing regulatory liability related to deferred taxes;
- A \$10 million tax benefit for the remeasurement of deferred tax assets and deferred tax liabilities primarily related to the guidance on bonus depreciation issued by the IRS in August 2018, affecting the computation of the Company's 2017 Federal income tax liability;
- Additional tax expense of \$7 million related to the portion of the deferred tax asset as of December 31, 2017, that represents nondeductible long-term incentives under the Tax Act's limitation on the deductibility of executive compensation; and
- During the fourth quarter of 2018, the Company released the \$76 million valuation allowance that it recorded in the first quarter of 2018 as a result of additional guidance published by the IRS that stated refundable AMT credits would not be subject to sequestration.
- The majority of Duke Energy's operations are regulated and it is expected that the Subsidiary Registrants will ultimately pass on the savings associated with the amount representing the remeasurement of deferred tax balances related to regulated operations to customers. For Duke Energy's regulated operations, where the reduction is expected to be returned to customers in future rates, the remeasurement has been deferred as a regulatory liability. During 2018, Duke Energy recorded an additional regulatory liability of \$83 million, representing the revaluation of those deferred tax balances. The Subsidiary Registrants continue to respond to requests from regulators in various jurisdictions to determine the timing and magnitude of savings they will pass on to customers.

In addition, during 2018, Duke Energy reclassified \$573 million of AMT credit carryforwards from noncurrent deferred tax liabilities to a current federal income tax receivable. In 2019, Duke Energy received a refund of \$573 million related to AMT credit carryforwards based on the filing of Duke Energy's 2018 income tax return in 2019 and reclassified \$286 million of AMT credits from noncurrent deferred tax liabilities to a current federal income tax receivable.

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FINANCIAL STATEMENTS

INCOME TAXES

Income Tax Expense

Components of Income Tax Expense

(in millions)	Year Ended December 31, 2019							
	Duke Energy		Duke Energy Progress		Duke Energy Florida		Duke Energy Indiana	
	Duke Energy	Carolinas	Progress Energy	Progress	Florida	Ohio	Indiana	Piedmont
Current income taxes								
Federal	\$ (299)	\$ 164	\$ (173)	\$ (36)	\$ (43)	\$ (41)	\$ (23)	\$ (92)
State	10	13	(7)	(3)	18	(1)	1	(1)
Foreign	2	—	—	—	—	—	—	—
Total current income taxes	(287)	177	(180)	(39)	(25)	(42)	(22)	(93)
Deferred income taxes								
Federal	855	175	422	220	153	77	128	133
State	(38)	(37)	17	(18)	27	5	28	3
Total deferred income taxes ^(a)	817	138	439	202	180	82	156	136
ITC amortization	(11)	(4)	(6)	(6)	—	—	—	—
Income tax expense from continuing operations	519	311	253	157	155	40	134	43
Tax benefit from discontinued operations	(2)	—	—	—	—	—	—	—
Total income tax expense included in Consolidated Statements of Operations	\$ 517	\$ 311	\$ 253	\$ 157	\$ 155	\$ 40	\$ 134	\$ 43

- (a) Total deferred income taxes includes the generation of tax credit carryforwards of \$8 million at Duke Energy Carolinas. In addition, total deferred income taxes includes utilization of NOL carryforwards and tax credit carryforwards of \$243 million at Progress Energy, \$35 million at Duke Energy Progress, \$152 million at Duke Energy Florida, \$25 million at Duke Energy Ohio, \$60 million at Duke Energy Indiana, \$90 million at Piedmont and \$775 million at Duke Energy.

(in millions)	Year Ended December 31, 2018							
	Duke Energy		Duke Energy Progress		Duke Energy Florida		Duke Energy Indiana	
	Duke Energy	Carolinas	Progress Energy	Progress	Florida	Ohio	Indiana	Piedmont
Current income taxes								
Federal	\$ (647)	\$ (8)	\$ (135)	\$ (71)	\$ (49)	\$ 20	\$ 29	\$ 67
State	(11)	6	(5)	(5)	(10)	(1)	3	1
Foreign	3	—	—	—	—	—	—	—
Total current income taxes	(655)	(2)	(140)	(76)	(59)	19	32	68
Deferred income taxes								
Federal	1,064	299	341	256	115	21	74	(36)
State	49	11	20	(17)	45	3	22	5
Total deferred income taxes ^{(a)(b)}	1,113	310	361	239	160	24	96	(31)
ITC amortization	(10)	(5)	(3)	(3)	—	—	—	—
Income tax expense from continuing operations	448	303	218	160	101	43	128	37
Tax benefit from discontinued operations	(26)	—	—	—	—	—	—	—
Total income tax expense included in Consolidated Statements of Operations	\$ 422	\$ 303	\$ 218	\$ 160	\$ 101	\$ 43	\$ 128	\$ 37

- (a) Includes benefits of NOL carryforwards and tax credit carryforwards of \$22 million at Duke Energy Carolinas, \$293 million at Progress Energy, \$59 million at Duke Energy Progress, \$219 million at Duke Energy Florida, \$17 million at Duke Energy Ohio, \$21 million at Duke Energy Indiana and \$39 million at Piedmont. In addition, total deferred income taxes includes utilization of NOL carryforwards and tax credit carryforwards of \$18 million at Duke Energy.
- (b) For the year ended December 31, 2018, the Company has revised the December 31, 2017, estimates of the income tax effects of the Tax Act, in accordance with SAB 118. See the Statutory Rate Reconciliation section below for additional information on the Tax Act's impact on income tax expense.

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FINANCIAL STATEMENTS

INCOME TAXES

(in millions)	Year Ended December 31, 2017							
	Duke Energy Carolinas		Duke Energy Progress		Duke Energy Florida		Duke Energy Ohio	
	Duke Energy	Carolinas	Duke Energy	Progress	Duke Energy	Florida	Duke Energy	Ohio
Current income taxes								
Federal	\$ (247)	\$ 221	\$ (436)	\$ (95)	\$ (188)	\$ (37)	\$ 128	\$ (90)
State	4	20	(5)	2	(11)	2	21	(3)
Foreign	3	—	—	—	—	—	—	—
Total current income taxes	(240)	241	(441)	(93)	(199)	(35)	149	(93)
Deferred income taxes								
Federal	1,344	381	664	378	194	99	138	147
State	102	35	44	10	51	(4)	14	8
Total deferred income taxes ^{(a)(b)}	1,446	416	708	388	245	95	152	155
ITC amortization	(10)	(5)	(3)	(3)	—	(1)	—	—
Income tax expense from continuing operations	1,196	652	264	292	46	59	301	62
Tax benefit from discontinued operations	(6)	—	—	—	—	—	—	—
Total income tax expense included in Consolidated Statements of Operations	\$ 1,190	\$ 652	\$ 264	\$ 292	\$ 46	\$ 59	\$ 301	\$ 62

- (a) Includes utilization of NOL carryforwards and tax credit carryforwards of \$428 million at Duke Energy, \$74 million at Progress Energy, \$36 million at Duke Energy Florida, \$17 million at Duke Energy Ohio, \$42 million at Duke Energy Indiana and \$79 million at Piedmont. In addition, total deferred income taxes includes benefits of NOL carryforwards and tax credit carryforwards of \$10 million at Duke Energy Carolinas and \$1 million at Duke Energy Progress.
- (b) As a result of the Tax Act, Duke Energy's deferred tax assets and liabilities were revalued as of December 31, 2017. See the Statutory Rate Reconciliation section below for additional information on the Tax Act's impact on income tax expense.

Duke Energy Income from Continuing Operations before Income Taxes

(in millions)	Years Ended December 31,		
	2019	2018	2017
Domestic ^(a)	\$ 4,053	\$ 3,018	\$ 4,207
Foreign	44	55	59
Income from continuing operations before income taxes	\$ 4,097	\$ 3,073	\$ 4,266

- (a) Includes a \$16 million expense in 2017 related to the Tax Act impact on equity earnings included within Equity in earnings of unconsolidated affiliates on the Consolidated Statement of Operations.

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FINANCIAL STATEMENTS

INCOME TAXES

Statutory Rate Reconciliation

The following tables present a reconciliation of income tax expense at the U.S. federal statutory tax rate to the actual tax expense from continuing operations.

(in millions)	Year Ended December 31, 2019							
	Duke	Duke	Progress	Duke	Duke	Duke	Duke	
	Energy	Energy	Energy	Energy	Energy	Energy	Energy	Piedmont
	Energy	Carolinas	Energy	Progress	Florida	Ohio	Indiana	
Income tax expense, computed at the statutory rate of 21%	\$ 860	\$ 360	\$ 332	\$ 202	\$ 178	\$ 59	\$ 120	\$ 51
State income tax, net of federal income tax effect	(22)	(19)	8	(17)	35	3	22	2
Amortization of excess deferred income tax	(121)	(29)	(64)	(10)	(54)	(12)	(6)	(10)
AFUDC equity income	(52)	(9)	(14)	(13)	(1)	(3)	(3)	—
AFUDC equity depreciation	34	19	10	5	5	1	4	—
Renewable energy PTCs	(120)	—	—	—	—	—	—	—
Other tax credits	(23)	(11)	(9)	(7)	(2)	(1)	(1)	(1)
Tax true up	(64)	(9)	(8)	(3)	(5)	(7)	(1)	—
Other items, net	27	9	(2)	—	(1)	—	(1)	1
Income tax expense from continuing operations	\$ 519	\$ 311	\$ 253	\$ 157	\$ 155	\$ 40	\$ 134	\$ 43
Effective tax rate	12.7%	18.1%	16.0%	16.3%	18.3%	14.3%	23.5%	17.6%

(in millions)	Year Ended December 31, 2018							
	Duke	Duke	Progress	Duke	Duke	Duke	Duke	
	Energy	Energy	Energy	Energy	Energy	Energy	Energy	Piedmont
	Energy	Carolinas	Energy	Progress	Florida	Ohio	Indiana	
Income tax expense, computed at the statutory rate of 21%	\$ 645	\$ 288	\$ 263	\$ 174	\$ 137	\$ 46	\$ 109	\$ 35
State income tax, net of federal income tax effect	30	14	13	(17)	28	2	20	4
Amortization of excess deferred income tax	(61)	—	(55)	(1)	(54)	(3)	(2)	—
AFUDC equity income	(42)	(15)	(22)	(12)	(10)	(2)	(2)	—
AFUDC equity depreciation	31	18	9	5	4	1	4	—
Renewable energy PTCs	(129)	—	—	—	—	—	—	—
Other tax credits	(28)	(7)	(13)	(5)	(8)	(1)	(1)	(3)
Tax Act ^(a)	20	1	25	19	—	2	—	—
Other items, net	(18)	4	(2)	(3)	4	(2)	—	1
Income tax expense from continuing operations	\$ 448	\$ 303	\$ 218	\$ 160	\$ 101	\$ 43	\$ 128	\$ 37
Effective tax rate	14.6%	22.1%	17.4%	19.3%	15.4%	19.6%	24.6%	22.3%

- (a) For the year ended December 31, 2018, the Company revised the December 31, 2017 estimates of the income tax effects of the Tax Act, in accordance with SAB 118. Amounts primarily include but are not limited to items that are excluded for ratemaking purposes related certain wholesale fixed rate contracts, remeasurement of nonregulated net deferred tax liabilities, Federal NOLs, and valuation allowance on foreign tax credits.

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FINANCIAL STATEMENTS

INCOME TAXES

(in millions)	Year Ended December 31, 2017							
	Duke Energy		Duke Energy Progress		Duke Energy Florida		Duke Energy Ohio	
	Duke Energy	Carolinas	Energy	Progress	Florida	Ohio	Indiana	Piedmont
Income tax expense, computed at the statutory rate of 35%	\$ 1,493	\$ 653	\$ 536	\$ 353	\$ 265	\$ 88	\$ 229	\$ 70
State income tax, net of federal income tax effect	69	36	25	8	26	(1)	23	3
AFUDC equity income	(81)	(37)	(32)	(17)	(16)	(4)	(8)	—
Renewable energy PTCs	(132)	—	—	—	—	—	—	—
Tax Act ^(a)	(112)	15	(246)	(40)	(226)	(23)	55	(12)
Tax true up	(52)	(24)	(19)	(13)	(7)	(5)	(6)	—
Other items, net	11	9	—	1	4	4	8	1
Income tax expense from continuing operations	\$ 1,196	\$ 652	\$ 264	\$ 292	\$ 46	\$ 59	\$ 301	\$ 62
Effective tax rate	28.0%	34.9%	17.2%	29.0%	6.1%	23.4%	46.0%	30.8%

- (a) Amounts primarily include but are not limited to items that are excluded for ratemaking purposes related to abandoned or impaired assets, certain wholesale fixed rate contracts, remeasurement of nonregulated net deferred tax liabilities, Federal NOLs, and valuation allowance on foreign tax credits.

Valuation allowances have been established for certain state NOL carryforwards and state income tax credits that reduce deferred tax assets to an amount that will be realized on a more-likely-than-not basis. The net change in the total valuation allowance is included in State income tax, net of federal income tax effect, in the above tables.

Valuation allowances have been established for foreign tax credits that reduce deferred tax assets to an amount that will be realized on a more-likely-than-not basis. The net change in the total valuation allowance is included in Tax Act in the above tables.

DEFERRED TAXES

Net Deferred Income Tax Liability Components

(in millions)	December 31, 2019							
	Duke Energy		Duke Energy Progress		Duke Energy Florida		Duke Energy Ohio	
	Duke Energy	Carolinas	Energy	Progress	Florida	Ohio	Indiana	Piedmont
Deferred credits and other liabilities	\$ 125	\$ 24	\$ 25	\$ 49	\$ —	\$ 14	\$ 5	\$ 22
Lease obligations	462	72	193	92	102	5	17	6
Pension, post-retirement and other employee benefits	303	(5)	88	38	44	17	27	(3)
Progress Energy merger purchase accounting adjustments ^(a)	389	—	—	—	—	—	—	—
Tax credits and NOL carryforwards	3,925	262	486	176	253	16	176	19
Regulatory liabilities and deferred credits	—	—	—	—	—	36	52	42
Investments and other assets	—	—	—	—	—	10	—	2
Other	97	5	8	3	2	8	1	6
Valuation allowance	(587)	—	—	—	—	—	—	—
Total deferred income tax assets	4,714	358	800	358	401	106	278	94
Investments and other assets	(1,664)	(981)	(577)	(390)	(190)	—	(12)	—
Accelerated depreciation rates	(10,813)	(3,254)	(3,798)	(1,918)	(1,913)	(1,028)	(1,416)	(802)
Regulatory assets and deferred debits, net	(1,115)	(44)	(887)	(438)	(477)	—	—	—
Total deferred income tax liabilities	(13,592)	(4,279)	(5,262)	(2,746)	(2,580)	(1,028)	(1,428)	(802)
Net deferred income tax liabilities	\$ (8,878)	\$ (3,921)	\$ (4,462)	\$ (2,388)	\$ (2,179)	\$ (922)	\$ (1,150)	\$ (708)

- (a) Primarily related to finance lease obligations and debt fair value adjustments.

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FINANCIAL STATEMENTS

INCOME TAXES

The following table presents the expiration of tax credits and NOL carryforwards.

(in millions)	December 31, 2019			
	Amount	Expiration Year		
General Business Credits	\$ 1,821	2024	—	2039
AMT credits	286	Refundable by 2021		
Federal NOL carryforwards ^{(a) (f)}	169	2024	—	Indefinite
Capital loss carryforward ^(e)	87	2024		
State carryforwards and credits ^{(b) (f)}	303	2020	—	Indefinite
Foreign NOL carryforwards ^(c)	12	2027	—	2037
Foreign Tax Credits ^(d)	1,237	2024	—	2027
Charitable contribution carryforwards	10	2020	—	2024
Total tax credits and NOL carryforwards	\$ 3,925			

- (a) A valuation allowance of \$4 million has been recorded on the Federal NOL carryforwards, as presented in the Net Deferred Income Tax Liability Components table.
- (b) A valuation allowance of \$97 million has been recorded on the state NOL and credit carryforwards, as presented in the Net Deferred Income Tax Liability Components table.
- (c) A valuation allowance of \$12 million has been recorded on the foreign NOL carryforwards, as presented in the Net Deferred Income Tax Liability Components table.
- (d) A valuation allowance of \$387 million has been recorded on the foreign tax credits, as presented in the Net Deferred Income Tax Liability Components table.
- (e) A valuation allowance of \$87 million has been recorded on the Federal capital loss carryforward, as presented in the Net Deferred Income Tax Liability Components table.
- (f) Indefinite carryforward for Federal NOLs, and NOLs for states that have adopted the Tax Act's NOL provisions, generated in tax years beginning after December 31, 2017.

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Deferred credits and other liabilities	\$ 164	\$ 64	\$ 35	\$ 53	\$ —	\$ 17	\$ 6	\$ 17
Finance lease obligations	60	26	—	—	—	—	2	—
Pension, post-retirement and other employee benefits	347	24	110	47	58	16	24	(1)
Progress Energy merger purchase accounting adjustments ^(a)	483	—	—	—	—	—	—	—
Tax credits and NOL carryforwards	4,580	257	693	215	363	42	237	110
Regulatory liabilities and deferred credits	—	—	—	—	—	56	—	48
Investments and other assets	—	—	—	—	—	18	—	16
Other	25	6	5	5	—	1	(1)	—
Valuation allowance	(484)	—	—	—	—	—	—	—
Total deferred income tax assets	5,175	377	843	320	421	150	268	190
Investments and other assets	(1,317)	(795)	(430)	(272)	(163)	—	(5)	—
Accelerated depreciation rates	(10,124)	(3,207)	(3,369)	(1,735)	(1,670)	(967)	(1,081)	(733)
Regulatory assets and deferred debits, net	(1,540)	(64)	(985)	(432)	(574)	—	(191)	—
Other	—	—	—	—	—	—	—	(8)
Total deferred income tax liabilities	(12,981)	(4,066)	(4,784)	(2,439)	(2,407)	(967)	(1,277)	(741)
Net deferred income tax liabilities	\$ (7,806)	\$ (3,689)	\$ (3,941)	\$ (2,119)	\$ (1,986)	\$ (817)	\$ (1,009)	\$ (551)

- (a) Primarily related to finance lease obligations and debt fair value adjustments.

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SEP 13 2021

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FINANCIAL STATEMENTS

INCOME TAXES

UNRECOGNIZED TAX BENEFITS

The following tables present changes to unrecognized tax benefits.

(in millions)	Year Ended December 31, 2019							
	Duke Energy		Duke Energy Progress		Duke Energy Florida		Duke Energy Ohio Indiana	
	Duke Energy	Carolinas	Progress Energy	Progress	Florida	Ohio	Indiana	Piedmont
Unrecognized tax benefits – January 1	\$ 24	\$ 6	\$ 9	\$ 6	\$ 3	\$ 1	\$ 1	\$ 4
Unrecognized tax benefit increases	105	2	1	1	—	—	—	—
Gross decreases – tax positions in prior periods	(3)	—	(1)	(1)	—	—	—	—
Total changes	102	2	—	—	—	—	—	—
Unrecognized tax benefits – December 31	\$ 126	\$ 8	\$ 9	\$ 6	\$ 3	\$ 1	\$ 1	\$ 4

(in millions)	Year Ended December 31, 2018							
	Duke Energy		Duke Energy Progress		Duke Energy Florida		Duke Energy Ohio Indiana	
	Duke Energy	Carolinas	Progress Energy	Progress	Florida	Ohio	Indiana	Piedmont
Unrecognized tax benefits – January 1	\$ 25	\$ 5	\$ 5	\$ 5	\$ 5	\$ 1	\$ 1	\$ 3
Unrecognized tax benefits increases (decreases)								
Gross decreases – tax positions in prior periods	(2)	(1)	—	—	(4)	—	—	—
Gross increases – tax positions in prior periods	7	2	4	1	2	—	—	1
Decreases due to settlements	(6)	—	—	—	—	—	—	—
Total changes	(1)	1	4	1	(2)	—	—	1
Unrecognized tax benefits – December 31	\$ 24	\$ 6	\$ 9	\$ 6	\$ 3	\$ 1	\$ 1	\$ 4

(in millions)	Year Ended December 31, 2017							
	Duke Energy		Duke Energy Progress		Duke Energy Florida		Duke Energy Ohio Indiana	
	Duke Energy	Carolinas	Progress Energy	Progress	Florida	Ohio	Indiana	Piedmont
Unrecognized tax benefits – January 1	\$ 17	\$ 1	\$ 2	\$ 2	\$ 4	\$ 4	\$ —	\$ —
Unrecognized tax benefits increases (decreases)								
Gross increases – tax positions in prior periods	12	4	3	3	1	1	1	3
Gross decreases – tax positions in prior periods	(4)	—	—	—	—	(4)	—	—
Total changes	8	4	3	3	1	(3)	1	3
Unrecognized tax benefits – December 31	\$ 25	\$ 5	\$ 5	\$ 5	\$ 5	\$ 1	\$ 1	\$ 3

The following table includes additional information regarding the Duke Energy Registrants' unrecognized tax benefits at December 31, 2019. It is reasonably possible that Duke Energy will reflect a \$3 million decrease in unrecognized tax benefits within the next 12 months.

(in millions)	December 31, 2019							
	Duke Energy		Duke Energy Progress		Duke Energy Florida		Duke Energy Ohio Indiana	
	Duke Energy	Carolinas	Progress Energy	Progress	Florida	Ohio	Indiana	Piedmont
Amount that if recognized, would affect the effective tax rate or regulatory liability ^(a)	\$ 122	\$ 8	\$ 9	\$ 6	\$ 3	\$ 1	\$ 1	\$ 4

- (a) The Duke Energy Registrants are unable to estimate the specific amounts that would affect the effective tax rate versus the regulatory liability.

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FINANCIAL STATEMENTS

INCOME TAXES

OTHER TAX MATTERS

The following tables include interest recognized in the Consolidated Statements of Operations and the Consolidated Balance Sheets.

(in millions)	Year Ended December 31, 2019			
	Duke			
	Duke Energy		Progress Energy	
	Duke Energy	Progress Energy	Progress	Piedmont
Net interest income recognized related to income taxes	\$ 16	\$ 1	\$ 1	\$ —
Interest receivable related to income taxes	1	—	—	—
Interest payable related to income taxes	1	—	—	1

(in millions)	Year Ended December 31, 2018			
	Duke			
	Duke Energy		Progress Energy	
	Duke Energy	Progress Energy	Progress	Piedmont
Net interest income recognized related to income taxes	\$ 2	\$ —	\$ —	\$ —
Interest payable related to income taxes	3	1	1	1

	Year Ended December 31, 2017					
	Duke Energy		Duke Energy		Duke Energy	
(in millions)	Duke Energy	Carolinas	Progress Energy	Progress	Florida	
Net interest income recognized related to income taxes	\$ —	\$ —	\$ 1	\$ —	\$ 1	
Net interest expense recognized related to income taxes	—	2	—	—	—	
Interest payable related to income taxes	5	25	1	1	—	

Duke Energy and its subsidiaries are no longer subject to U.S. federal examination for years before 2016. With few exceptions, Duke Energy and its subsidiaries are no longer subject to state, local or non-U.S. income tax examinations by tax authorities for years before 2016.

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FINANCIAL STATEMENTS

OTHER INCOME AND EXPENSES, NET

25. OTHER INCOME AND EXPENSES, NET

The components of Other income and expenses, net on the Consolidated Statements of Operations are as follows.

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Interest income	\$ 31	\$ 1	\$ 11	\$ —	\$ 11	\$ 10	\$ 10	\$ 1
AFUDC equity	139	42	66	60	6	13	18	—
Post in-service equity returns	29	20	7	7	—	1	—	—
Nonoperating income, other	231	88	57	33	31	—	13	19
Other income and expense, net	\$ 430	\$ 151	\$ 141	\$ 100	\$ 48	\$ 24	\$ 41	\$ 20

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Interest income	\$ 20	\$ 1	\$ 18	\$ 1	\$ 18	\$ 7	\$ 9	\$ 1
AFUDC equity	221	73	104	57	47	11	32	—
Post in-service equity returns	15	9	5	5	—	1	—	—
Nonoperating income, other	143	70	38	24	21	4	4	13
Other income and expense, net	\$ 399	\$ 153	\$ 165	\$ 87	\$ 86	\$ 23	\$ 45	\$ 14

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Interest income	\$ 13	\$ 2	\$ 6	\$ 2	\$ 5	\$ 6	\$ 8	\$ —
AFUDC equity	237	106	92	47	45	11	28	—
Post in-service equity returns	40	28	12	12	—	—	—	—
Nonoperating income, other	218	63	99	54	46	6	11	(11)
Other income and expense, net	\$ 508	\$ 199	\$ 209	\$ 115	\$ 96	\$ 23	\$ 47	\$ (11)

26. SUBSEQUENT EVENTS

For information on subsequent events related to the adoption of the new credit losses accounting standard, regulatory matters and debt and credit facilities, see Notes 1, 4 and 7, respectively.

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FINANCIAL STATEMENTS

QUARTERLY FINANCIAL DATA

27. QUARTERLY FINANCIAL DATA (UNAUDITED)

DUKE ENERGY

Quarterly EPS amounts may not sum to the full-year total due to changes in the weighted average number of common shares outstanding and rounding.

(in millions, except per share data)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2019					
Operating revenues	\$ 6,163	\$ 5,873	\$ 6,940	\$ 6,103	\$ 25,079
Operating income	1,373	1,298	1,929	1,109	5,709
Income from continuing operations	893	748	1,323	614	3,578
Loss from discontinued operations, net of tax	—	—	—	(7)	(7)
Net income	893	748	1,323	607	3,571
Net income available to Duke Energy Corporation common stockholders	900	820	1,327	660	3,707
Earnings per share:					
Income from continuing operations available to Duke Energy Corporation common stockholders					
Basic and diluted	\$ 1.24	\$ 1.12	\$ 1.82	\$ 0.89	\$ 5.07
Loss from discontinued operations attributable to Duke Energy Corporation common stockholders					
Basic and diluted	\$ —	\$ —	\$ —	\$ (0.01)	\$ (0.01)
Net income available to Duke Energy Corporation common stockholders					
Basic and diluted	\$ 1.24	\$ 1.12	\$ 1.82	\$ 0.88	\$ 5.06
2018					
Operating revenues	\$ 6,135	\$ 5,643	\$ 6,628	\$ 6,115	\$ 24,521
Operating income	1,256	979	1,579	871	4,685
Income from continuing operations	622	507	1,062	434	2,625
(Loss) Income from discontinued operations, net of tax	—	(5)	4	20	19
Net income	622	502	1,066	454	2,644
Net income attributable to Duke Energy Corporation	620	500	1,082	464	2,666
Earnings per share:					
Income from continuing operations attributable to Duke Energy Corporation common stockholders					
Basic and diluted	\$ 0.88	\$ 0.72	\$ 1.51	\$ 0.62	\$ 3.73
(Loss) Income from discontinued operations attributable to Duke Energy Corporation common stockholders					
Basic and diluted	\$ —	\$ (0.01)	\$ —	\$ 0.03	\$ 0.03
Net income attributable to Duke Energy Corporation common stockholders					
Basic and diluted	\$ 0.88	\$ 0.71	\$ 1.51	\$ 0.65	\$ 3.76

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2019					
Impairment Charges (see Notes 4 and 13)	\$ —	\$ —	\$ 25	\$ (14)	\$ 11
Total	\$ —	\$ —	\$ 25	\$ (14)	\$ 11
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (17)	\$ (20)	\$ (16)	\$ (31)	\$ (84)
Regulatory and Legislative Impacts (see Note 4)	(86)	(179)	—	—	(265)
Sale of Retired Plant (see Note 3)	(107)	—	—	—	(107)
Impairment Charges (see Notes 4, 12 and 13)	(55)	—	(93)	(60)	(208)
Severance Charges (see Note 21)	—	—	—	(187)	(187)
Impacts of the Tax Act (see Note 24)	(76)	—	3	53	(20)
Total	\$ (341)	\$ (199)	\$ (106)	\$ (225)	\$ (871)

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FINANCIAL STATEMENTS

QUARTERLY FINANCIAL DATA

DUKE ENERGY CAROLINAS

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2019					
Operating revenues	\$ 1,744	\$ 1,713	\$ 2,162	\$ 1,776	\$ 7,395
Operating income	435	451	793	347	2,026
Net income	293	301	590	219	1,403
2018					
Operating revenues	\$ 1,763	\$ 1,672	\$ 2,090	\$ 1,775	\$ 7,300
Operating income	482	224	713	241	1,660
Net income	323	117	496	135	1,071

The following table includes unusual or infrequently occurring items in each quarter during 2018. There were no unusual or infrequently occurring items for the year ended December 31, 2019. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (4)	\$ (2)	\$ (2)	\$ (1)	\$ (9)
Regulatory and Legislative Impacts (see Note 4)	(19)	(179)	—	—	(198)
Severance Charges (see Note 21)	—	—	—	(102)	(102)
Impacts of the Tax Act (see Note 24)	—	—	(1)	—	(1)
Total	\$ (23)	\$ (181)	\$ (3)	\$ (103)	\$ (310)

PROGRESS ENERGY

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2019					
Operating revenues	\$ 2,572	\$ 2,744	\$ 3,242	\$ 2,644	\$ 11,202
Operating income	488	580	786	447	2,301
Net income	248	329	521	229	1,327
Net income attributable to Parent	249	328	521	229	1,327
2018					
Operating revenues	\$ 2,576	\$ 2,498	\$ 3,045	\$ 2,609	\$ 10,728
Operating income	447	484	663	334	1,928
Net income	237	267	406	123	1,033
Net income attributable to Parent	235	265	404	123	1,027

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2019					
Impairment Charges (see Note 4)	\$ —	\$ —	\$ 25	\$ 11	\$ 36
Total	\$ —	\$ —	\$ 25	\$ 11	\$ 36
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (4)	\$ (3)	\$ (1)	\$ (2)	\$ (10)
Regulatory and Legislative Impacts (see Note 4)	(67)	—	—	—	(67)
Impairment Charges (see Note 4)	—	—	—	(60)	(60)
Severance Charges (see Note 21)	—	—	—	(69)	(69)
Impacts of the Tax Act (see Note 24)	(1)	—	(5)	(19)	(25)
Total	\$ (72)	\$ (3)	\$ (6)	\$ (150)	\$ (231)

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FINANCIAL STATEMENTS

QUARTERLY FINANCIAL DATA

DUKE ENERGY PROGRESS

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2019					
Operating revenues	\$ 1,484	\$ 1,387	\$ 1,688	\$ 1,398	\$ 5,957
Operating income	300	259	373	236	1,168
Net income	203	169	278	155	805
2018					
Operating revenues	\$ 1,460	\$ 1,291	\$ 1,582	\$ 1,366	\$ 5,699
Operating income	269	233	330	227	1,059
Net income	177	139	216	135	667

The following table includes unusual or infrequently occurring items in each quarter during 2018. There were no unusual or infrequently occurring items for the year ended December 31, 2019. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (2)	\$ (2)	\$ (1)	\$ (1)	\$ (6)
Regulatory and Legislative Impacts (see Note 4)	(67)	—	—	—	(67)
Severance Charges (see Note 21)	—	—	—	(52)	(52)
Impacts of the Tax Act (see Note 24)	—	—	(4)	(15)	(19)
Total	\$ (69)	\$ (2)	\$ (5)	\$ (68)	\$ (144)

DUKE ENERGY FLORIDA

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2019					
Operating revenues	\$ 1,086	\$ 1,353	\$ 1,548	\$ 1,244	\$ 5,231
Operating income	188	321	413	205	1,127
Net income	96	201	289	106	692
2018					
Operating revenues	\$ 1,115	\$ 1,203	\$ 1,462	\$ 1,241	\$ 5,021
Operating income	173	245	331	107	856
Net income	103	168	243	40	554

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2019					
Impairment Charges (see Note 4)	\$ —	\$ —	\$ 25	\$ 11	\$ 36
Total	\$ —	\$ —	\$ 25	\$ 11	\$ 36
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (2)	\$ (1)	\$ —	\$ (1)	\$ (4)
Impairment Charges (see Note 4)	—	—	—	(60)	(60)
Severance Charges (see Note 21)	—	—	—	(17)	(17)
Impacts of the Tax Act (see Note 24)	—	—	(2)	2	—
Total	\$ (2)	\$ (1)	\$ (2)	\$ (76)	\$ (81)

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FINANCIAL STATEMENTS

QUARTERLY FINANCIAL DATA

DUKE ENERGY OHIO

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2019					
Operating revenues	\$ 531	\$ 433	\$ 489	\$ 487	\$ 1,940
Operating income	104	74	108	78	364
Net income	69	47	74	48	238
2018					
Operating revenues	\$ 524	\$ 459	\$ 469	\$ 505	\$ 1,957
Operating (loss) income	(21)	77	139	93	288
Net (loss) income	(25)	46	100	55	176

The following table includes unusual or infrequently occurring items in each quarter during 2018. There were no unusual or infrequently occurring items for the year ended December 31, 2019. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (3)	\$ (5)	\$ —	\$ (6)	\$ (14)
Sale of Retired Plant (see Note 3)	(107)	—	—	—	(107)
Severance Charges (see Note 21)	—	—	—	(6)	(6)
Impacts of the Tax Act (see Note 24)	—	—	—	(2)	(2)
Total	\$ (110)	\$ (5)	\$ —	\$ (14)	\$ (129)

DUKE ENERGY INDIANA

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2019					
Operating revenues	\$ 768	\$ 714	\$ 807	\$ 715	\$ 3,004
Operating income	169	148	235	133	685
Net income	110	97	156	73	436
2018					
Operating revenues	\$ 731	\$ 738	\$ 819	\$ 771	\$ 3,059
Operating income	168	169	173	133	643
Net income	100	98	119	76	393

The following table includes unusual or infrequently occurring items in each quarter during 2018. There were no unusual or infrequently occurring items for the year ended December 31, 2019. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ —	\$ —	\$ (2)	\$ —	\$ (2)
Severance Charges (see Note 21)	—	—	—	(7)	(7)
Total	\$ —	\$ —	\$ (2)	\$ (7)	\$ (9)

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FINANCIAL STATEMENTS

QUARTERLY FINANCIAL DATA

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(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2019					
Operating revenues	\$ 579	\$ 209	\$ 168	\$ 425	\$ 1,381
Operating income (loss)	172	6	(13)	139	304
Net income (loss)	122	(7)	(18)	105	202
2018					
Operating revenues	\$ 553	\$ 215	\$ 172	\$ 435	\$ 1,375
Operating income (loss)	161	5	(19)	79	226
Net income (loss)	110	(8)	(21)	48	129

The following table includes unusual or infrequently occurring items in each quarter during 2018. There were no unusual or infrequently occurring items for the year ended December 31, 2019. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (6)	\$ (9)	\$ (11)	\$ (22)	\$ (48)
Severance Charges (see Note 21)	—	—	—	(2)	(2)
Total	\$ (6)	\$ (9)	\$ (11)	\$ (24)	\$ (50)

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INDEPENDENT ACCOUNTANTS

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

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CONTROLS AND PROCEDURES

ITEM 9A. CONTROLS AND PROCEDURES

Disclosure Controls and Procedures

Disclosure controls and procedures are controls and other procedures that are designed to ensure that information required to be disclosed by the Duke Energy Registrants in the reports they file or submit under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified by the SEC rules and forms.

Disclosure controls and procedures include, without limitation, controls and procedures designed to provide reasonable assurance that information required to be disclosed by the Duke Energy Registrants in the reports they file or submit under the Exchange Act is accumulated and communicated to management, including the Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.

Under the supervision and with the participation of management, including the Chief Executive Officer and Chief Financial Officer, the Duke Energy Registrants have evaluated the effectiveness of their disclosure controls and procedures (as such term is defined in Rule 13a-15(e) and 15d-15(e) under the Exchange Act) as of December 31, 2019, and, based upon this evaluation, the Chief Executive Officer and Chief Financial Officer have concluded that these controls and procedures are effective in providing reasonable assurance of compliance.

Changes in Internal Control Over Financial Reporting

Under the supervision and with the participation of management, including the Chief Executive Officer and Chief Financial Officer, the Duke Energy Registrants have evaluated changes in internal control over financial reporting (as such term is defined in Rules 13a-15 and 15d-15 under the Exchange Act) that occurred during the fiscal quarter ended December 31, 2019, and have concluded no change has materially affected, or is reasonably likely to materially affect, internal control over financial reporting.

Management's Annual Report on Internal Control Over Financial Reporting

The Duke Energy Registrants' management is responsible for establishing and maintaining an adequate system of internal control over financial reporting, as such term is defined in Exchange Act Rules 13a-15(f) and 15d-15(f). The Duke Energy Registrants' internal control system was designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes, in accordance with GAAP. Due to inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness of the internal control over financial reporting to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with policies and procedures may deteriorate.

The Duke Energy Registrants' management, including their Chief Executive Officer and Chief Financial Officer, has conducted an evaluation of the effectiveness of their internal control over financial reporting as of December 31, 2019, based on the framework in the Internal Control – Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on that evaluation, management concluded that its internal controls over financial reporting were effective as of December 31, 2019.

Deloitte & Touche LLP, Duke Energy's independent registered public accounting firm, has issued an attestation report on the effectiveness of Duke Energy's internal control over financial reporting, which is included herein. This report is not applicable to the Subsidiary Registrants as these companies are not accelerated or large accelerated filers.

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REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholders and the Board of Directors of Duke Energy Corporation

Opinion on Internal Control over Financial Reporting

We have audited the internal control over financial reporting of Duke Energy Corporation and subsidiaries (the "Company") as of December 31, 2019, based on criteria established in *Internal Control - Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2019, based on criteria established in *Internal Control - Integrated Framework (2013)* issued by COSO.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated financial statements as of and for the year ended December 31, 2019, of the Company and our report dated February 20, 2020, expressed an unqualified opinion on those financial statements.

Basis for Opinion

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying *Management's Annual Report on Internal Control Over Financial Reporting*. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 20, 2020

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OTHER INFORMATION

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

Information regarding Duke Energy's Executive Officers is set forth in Part I, Item 1, "Business – Executive Officers of the Registrants," in this Annual Report on Form 10-K. Duke Energy will provide information that is responsive to the remainder of this Item 10 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 10 by reference.

ITEM 11. EXECUTIVE COMPENSATION

Duke Energy will provide information that is responsive to this Item 11 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 11 by reference.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

Equity Compensation Plan Information

The following table shows information as of December 31, 2019, about securities to be issued upon exercise of outstanding options, warrants and rights under Duke Energy's equity compensation plans, along with the weighted average exercise price of the outstanding options, warrants and rights and the number of securities remaining available for future issuance under the plans.

Plan Category	Number of securities to be issued upon exercise of outstanding options, warrants and rights (a)	Weighted average exercise price of outstanding options, warrants and rights (b) ⁽¹⁾	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a)) (c)
Equity compensation plans approved by security holders	3,528,022 ⁽²⁾	n/a	5,248,541 ⁽³⁾
Equity compensation plans not approved by security holders	180,188 ⁽⁴⁾	n/a	n/a ⁽⁵⁾
Total	3,708,210	n/a	5,248,541

(1) As of December 31, 2019, no options were outstanding under equity compensation plans.

(2) Includes RSUs and performance shares (assuming the maximum payout level) granted under the Duke Energy Corporation 2015 Long-Term Incentive Plan, as well as shares that could be payable with respect to certain compensation deferred under the Duke Energy Corporation Executive Savings Plan (Executive Savings Plan) or the Directors' Savings Plan.

(3) Includes shares remaining available for issuance pursuant to stock awards under the Duke Energy Corporation 2015 Long-Term Incentive Plan.

(4) Includes shares that could be payable with respect to certain compensation deferred under the Executive Savings Plan or the Duke Energy Corporation Directors' Savings Plan (Directors' Savings Plan), each of which is a non-qualified deferred compensation plan described in more detail below.

(5) The number of shares remaining available for future issuance under equity compensation plans not approved by security holders cannot be determined because it is based on the amount of future voluntary deferrals, if any, under the Executive Savings Plan and the Directors' Savings Plan.

Under the Executive Savings Plan, participants can elect to defer a portion of their base salary and short-term incentive compensation. Participants also receive a company matching contribution in excess of the contribution limits prescribed by the Internal Revenue Code under the Duke Energy Retirement Savings Plan, which is the 401(k) plan in which employees are generally eligible to participate. In general, payments are made following termination of employment or death in the form of a lump sum or installments, as selected by the participant. Participants may direct the deemed investment of base salary deferrals, short-term incentive compensation deferrals and matching contributions among investment options available under the Duke Energy Retirement Savings Plan, including the Duke Energy Common Stock Fund. Participants may change their investment elections on a daily basis. Deferrals of equity awards are credited with earnings and losses based on the performance of the Duke Energy Common Stock Fund. The benefits payable under the plan are unfunded and subject to the claims of Duke Energy's creditors.

Under the Directors' Savings Plan, outside directors may elect to defer all or a portion of their annual compensation, generally consisting of retainers. Deferred amounts are credited to an unfunded account, the balance of which is adjusted for the performance of phantom investment options, including the Duke Energy Common Stock Fund, as elected by the director, and generally are paid when the director terminates his or her service from the Board of Directors.

Duke Energy will provide additional information that is responsive to this Item 12 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 12 by reference.

OTHER INFORMATION

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE

Duke Energy will provide information that is responsive to this Item 13 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 13 by reference.

ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

Deloitte provided professional services to the Duke Energy Registrants. The following tables present the Deloitte fees for services rendered to the Duke Energy Registrants during 2019 and 2018.

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Types of Fees								
Audit Fees ^(a)	\$ 13.5	\$ 4.6	\$ 5.3	\$ 3.1	\$ 2.2	\$ 0.9	\$ 1.4	\$ 0.8
Audit-Related Fees ^(b)	0.6	0.1	0.2	0.1	0.1	0.2	—	—
Tax Fees ^(c)	0.2	0.1	0.1	—	—	—	—	—
Total Fees	\$ 14.3	\$ 4.8	\$ 5.6	\$ 3.2	\$ 2.3	\$ 1.1	\$ 1.4	\$ 0.8

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Types of Fees								
Audit Fees ^(a)	\$ 14.0	\$ 5.0	\$ 5.5	\$ 3.3	\$ 2.2	\$ 0.9	\$ 1.4	\$ 0.8
Audit-Related Fees ^(b)	0.4	—	0.1	—	0.1	—	—	—
Tax Fees ^(c)	0.6	0.2	0.2	0.1	0.1	—	0.1	0.1
Total Fees	\$ 15.0	\$ 5.2	\$ 5.8	\$ 3.4	\$ 2.4	\$ 0.9	\$ 1.5	\$ 0.9

- (a) Audit Fees are fees billed, or expected to be billed, by Deloitte for professional services for the financial statement audits, audit of the Duke Energy Registrants' financial statements included in the Annual Report on Form 10-K, reviews of financial statements included in Quarterly Reports on Form 10-Q, and services associated with securities filings such as comfort letters and consents.
- (b) Audit-Related Fees are fees billed, or expected to be billed, by Deloitte for assurance and related services that are reasonably related to the performance of an audit or review of financial statements, including statutory reporting requirements.
- (c) Tax Fees are fees billed by Deloitte for tax return assistance and preparation, tax examination assistance and professional services related to tax planning and tax strategy.

To safeguard the continued independence of the independent auditor, the Audit Committee of Duke Energy adopted a policy that all services provided by the independent auditor require preapproval by the Audit Committee. Pursuant to the policy, certain audit services, audit-related services, tax services and other services have been specifically preapproved up to fee limits. In the event the cost of any of these services may exceed the fee limits, the Audit Committee must specifically approve the service. All services performed in 2019 and 2018 by the independent accountant were approved by the Audit Committee pursuant to the preapproval policy.

ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

- (a) Consolidated Financial Statements, Supplemental Financial Data and Supplemental Schedules included in Part II of this Annual Report are as follows:

Duke Energy Corporation

Consolidated Financial Statements
Consolidated Statements of Operations for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Statements of Comprehensive Income for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Balance Sheets as of December 31, 2019, and 2018
Consolidated Statements of Cash Flows for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2019, 2018 and 2017
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 27 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Carolinas, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Balance Sheets as of December 31, 2019, and 2018
Consolidated Statements of Cash Flows for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2019, 2018 and 2017
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 27 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Progress Energy, Inc.

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Balance Sheets as of December 31, 2019, and 2018
Consolidated Statements of Cash Flows for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2019, 2018 and 2017
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 27 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Progress, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Balance Sheets as of December 31, 2019, and 2018
Consolidated Statements of Cash Flows for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2019, 2018 and 2017
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 27 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Florida, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Balance Sheets as of December 31, 2019, and 2018
Consolidated Statements of Cash Flows for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2019, 2018 and 2017
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 27 to the Consolidated Financial Statements)
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EXHIBITS

Item 30
Attachment 4 of 16

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Duke Energy Ohio, Inc.

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Balance Sheets as of December 31, 2019, and 2018
Consolidated Statements of Cash Flows for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2019, 2018 and 2017
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 27 to the Consolidated Financial Statements)
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Duke Energy Indiana, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Balance Sheets as of December 31, 2019, and 2018
Consolidated Statements of Cash Flows for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2019, 2018 and 2017
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Piedmont Natural Gas Company, Inc.

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Balance Sheets as of December 31, 2019, and 2018
Consolidated Statements of Cash Flows for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2019, 2018 and 2017
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EXHIBITS

EXHIBIT INDEX

Exhibits filed herewithin are designated by an asterisk (*). All exhibits not so designated are incorporated by reference to a prior filing, as indicated. Items constituting management contracts or compensatory plans or arrangements are designated by a double asterisk (**). The Company agrees to furnish upon request to the Commission a copy of any omitted schedules or exhibits upon request on all items designated by a triple asterisk (***)

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
2.1	Agreement and Plan of Merger between Duke Energy Corporation, Diamond Acquisition Corporation and Progress Energy, Inc., dated as of January 8, 2011 (incorporated by reference to Exhibit 2.1 to Duke Energy Corporation's Current Report on Form 8-K filed on January 11, 2011, File No. 1-32853).	X		X					
2.2	Agreement and Plan of Merger between Piedmont Natural Gas Company, Duke Energy Corporation and Forest Subsidiary, Inc. (incorporated by reference to Exhibit 2.1 to Duke Energy Corporation's Current Report on Form 8-K filed on October 26, 2015, File No. 1-32853).	X							X
3.1	Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 to Duke Energy Corporation's Current Report on Form 8-K filed on May 20, 2014, File No. 1-32853).	X							
3.2	Amended and Restated By-Laws of Duke Energy Corporation (incorporated by reference to Exhibit 3.1 to Duke Energy Corporation's Current Report on Form 8-K filed on January 4, 2016, File No. 1-32853).	X							
3.3	Articles of Organization including Articles of Conversion (incorporated by reference to Exhibit 3.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on April 7, 2006, File No. 1-4928).		X						
3.3.1	Amended Articles of Organization, effective October 1, 2006, (incorporated by reference to Exhibit 3.1 to Duke Energy Carolinas, LLC's Quarterly Report on Form 10-Q for the quarter ended September 30, 2006, filed on November 13, 2006, File No. 1-4928).		X						
3.4	Amended Articles of Incorporation of Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company), effective October 23, 1996, (incorporated by reference to Exhibit 3(a) to registrant's Quarterly Report on Form 10-Q for the quarter ended September 30, 1996, filed on November 13, 1996, File No. 1-1232).						X		
3.4.1	Amended Articles of Incorporation, effective September 19, 2006, (incorporated by reference to Exhibit 3.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Quarterly Report on Form 10-Q for the quarter ended September 30, 2006, filed on November 17, 2006, File No. 1-1232).						X		
3.5	Certificate of Conversion of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.1 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.1	Articles of Entity Conversion of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	

EXHIBITS

3.5.2	<u>Plan of Entity Conversion of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.3 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).</u>	X
3.5.3	<u>Articles of Organization of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.4 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).</u>	X
3.5.4	<u>Limited Liability Company Operating Agreement of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.5 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).</u>	X
3.6	<u>Limited Liability Company Operating Agreement of Duke Energy Carolinas, LLC (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on April 7, 2006, File No. 1-4928).</u>	X
3.7	<u>Regulations of Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company), effective July 23, 2003, (incorporated by reference to Exhibit 3.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2003, filed on August 13, 2003, File No. 1-1232).</u>	X
3.8	<u>Articles of Organization including Articles of Conversion for Duke Energy Progress, LLC (incorporated by reference to Exhibit 3.1 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3382).</u>	X
3.8.1	<u>Plan of Conversion of Duke Energy Progress, Inc. (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3382).</u>	X
3.8.2	<u>Limited Liability Company Operating Agreement of Duke Energy Progress, LLC (incorporated by reference to Exhibit 3.3 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3382).</u>	X
3.9	<u>Amended and Restated Articles of Incorporation of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective June 15, 2000, (incorporated by reference to Exhibit 3(a) (1) to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2000, filed on August 14, 2000, File No. 1-3382).</u>	X
3.9.1	<u>Articles of Amendment to the Amended and Restated Articles of Incorporation of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective December 4, 2000, (incorporated by reference to Exhibit 3(b)(1) to registrant's Annual Report on Form 10-K for the year ended December 31, 2001, filed on March 28, 2002, File No. 1-3382).</u>	X
3.9.2	<u>Articles of Amendment to the Amended and Restated Articles of Incorporation of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective May 10, 2006, (incorporated by reference to Exhibit 3(a) to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006, filed on August 9, 2006, File No. 1-15929).</u>	X
3.9.3	<u>By-Laws of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective May 10, 2006, (incorporated by reference to Exhibit 3(b) to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006, filed on August 9, 2006, File No. 1-15929).</u>	X
3.10	<u>Articles of Conversion for Duke Energy Florida, LLC (incorporated by reference to Exhibit 3.4 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).</u>	X

EXHIBITS

3.10.1	<u>Articles of Organization for Duke Energy Florida, LLC (incorporated by reference to Exhibit 3.5 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).</u>	X	
3.10.2	<u>Plan of Conversion of Duke Energy Florida, Inc. (incorporated by reference to Exhibit 3.6 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).</u>	X	
3.10.3	<u>Limited Liability Company Operating Agreement of Duke Energy Florida, LLC (incorporated by reference to Exhibit 3.7 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).</u>	X	
3.11	<u>Amended and Restated Articles of Incorporation of Piedmont Natural Gas Company, Inc., dated as of October 3, 2016 (incorporated by reference to Exhibit 3.1 to registrant's Annual Report on Form 10-K for the fiscal year ended October 31, 2016, filed on December 22, 2016, File No. 001-06196).</u>		X
3.11.1	<u>Bylaws of Piedmont Natural Gas Company, Inc., as amended and restated effective October 3, 2016 (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on October 3, 2016, File No. 1-06196).</u>		X
3.12	<u>Certificate of Designations with respect to Series A Preferred Stock, dated March 28, 2019 (incorporated by reference to Exhibit 3.1 to Registrant's Current Report on Form 8-K filed on March 29, 2019, File No. 1-32853).</u>	X	
3.13	<u>Certificate of Designation with respect to the Series B Preferred Stock, dated September 11, 2019 (incorporated by reference to Exhibit 3.1 to registrant's Current Report on Form 8-K filed on September 12, 2019, File No. 1-32853).</u>	X	
3.14	<u>Description of Registered Securities (incorporated by reference from the registrant's prospectus contained in Form S-3 filed on September 23, 2019, File No. 333-233896, under the headings "Description of Common Stock," "Description of Preferred Stock," "Description of Depositary Shares," "Description of Stock Purchase Contracts and Stock Purchase Units," and "Description of Debt Securities").</u>	X	
3.15	<u>Description of Registered Securities (incorporated by reference from the registrant's prospectus contained in Form S-3 filed on September 23, 2019, File No. 333-233896-01, under the heading "Description of Debt Securities").</u>		X
3.16	<u>Description of Registered Securities (incorporated by reference from the registrant's prospectus contained in Form S-3 filed on September 23, 2019, File No. 333-233896-02, under the headings "Description of First Mortgage Bonds" and "Description of Debt Securities").</u>	X	
3.17	<u>Description of Registered Securities (incorporated by reference from the registrant's prospectus contained in Form S-3 filed on September 23, 2019, File No. 333-233896-03, under the headings "Description of First Mortgage Bonds" and "Description of Unsecured Debt Securities").</u>		X
3.18	<u>Description of Registered Securities (incorporated by reference from the registrant's prospectus contained in Form S-3 filed on September 23, 2019, File No. 333-233896-04, under the headings "Description of First Mortgage Bonds" and "Description of Unsecured Debt Securities").</u>		X

EXHIBITS

3.19	<u>Description of Registered Securities (incorporated by reference from the registrant's prospectus contained in Form S-3 filed on September 23, 2019, File No. 333-233896-05, under the headings "Description of First Mortgage Bonds" and "Description of Debt Securities").</u>		X
3.20	<u>Description of Registered Securities (incorporated by reference from the registrant's prospectus contained in Form S-3 filed on September 23, 2019, File No. 333-233896-06, under the headings "Description of First and Refunding Mortgage Bonds," "Description of Senior Notes," and "Description of Subordinate Notes").</u>		X
4.1	<u>Indenture between Duke Energy Corporation and The Bank of New York Mellon Trust Company, N.A., as Trustee, dated as of June 3, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 16, 2008, File No. 1-32853).</u>	X	
4.1.1	<u>First Supplemental Indenture, dated as of June 16, 2008, (incorporated by reference to Exhibit 4.2 to Duke Energy Corporation's Current Report on Form 8-K filed on June 16, 2008, File No. 1-32853).</u>	X	
4.1.2	<u>Second Supplemental Indenture, dated as of January 26, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on January 26, 2009, File No. 1-32853).</u>	X	
4.1.3	<u>Third Supplemental Indenture, dated as of August 28, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on August 28, 2009, File No. 1-32853).</u>	X	
4.1.4	<u>Fourth Supplemental Indenture, dated as of March 25, 2010, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on March 25, 2010, File No. 1-32853).</u>	X	
4.1.5	<u>Fifth Supplemental Indenture, dated as of August 25, 2011, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on August 25, 2011, File No. 1-32853).</u>	X	
4.1.6	<u>Sixth Supplemental Indenture, dated as of November 17, 2011, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on November 17, 2011, File No. 1-32853).</u>	X	
4.1.7	<u>Seventh Supplemental Indenture, dated as of August 16, 2012, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on August 16, 2012, File No. 1-32853).</u>	X	
4.1.8	<u>Eighth Supplemental Indenture, dated as of January 14, 2013, (incorporated by reference to Exhibit 2 to the Registration Statement of Form 8-A of the Company filed on January 14, 2013, File No. 1-32853).</u>	X	
4.1.9	<u>Ninth Supplemental Indenture, dated as of June 13, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 13, 2013, File No. 1-32853).</u>	X	
4.1.10	<u>Tenth Supplemental Indenture, dated as of October 11, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on October 11, 2013, File No. 1-32853).</u>	X	

EXHIBITS

4.1.11	<u>Eleventh Supplemental Indenture, dated as of April 4, 2014, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on April 4, 2014, File No. 1-32853).</u>	X
4.1.12	<u>Twelfth Supplemental Indenture, dated as of November 19, 2015, (incorporated by reference to Exhibit 4.2 to Duke Energy Corporation's Current Report on Form 8-K filed on November 19, 2015, File No. 1-32853).</u>	X
4.1.13	<u>Thirteenth Supplemental Indenture, dated as of April 18, 2016, to the indenture dated as of June 3, 2008, between Duke Energy Corporation and The Bank of New York Mellon Trust Company, N.A., as Trustee (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended March 31, 2016, filed on May 5, 2016, File No. 1-32853).</u>	X
4.1.14	<u>Fourteenth Supplemental Indenture, dated as of August 12, 2016, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 12, 2016, File No. 1-32853).</u>	X
4.1.15	<u>Fifteenth Supplemental Indenture, dated as of April 11, 2017 (incorporated by reference to Exhibit 4.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).</u>	X
4.1.16	<u>Sixteenth Supplemental Indenture, dated as of June 13, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2017 filed on August 3, 2017, File No. 1-32853).</u>	X
4.1.17	<u>Seventeenth Supplemental Indenture, dated as of August 10, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 10, 2017, File No. 1-32853).</u>	X
4.1.18	<u>Eighteenth Supplemental Indenture, dated as of March 29, 2018 (incorporated by reference to Exhibit 4.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2018 filed on May 10, 2018, File No. 1-32853).</u>	X
4.1.19	<u>Nineteenth Supplemental Indenture, dated as of May 16, 2018 (incorporated by reference to Exhibit 4.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2018 filed on August 2, 2018, File No. 1-32853).</u>	X
4.1.20	<u>Twentieth Supplemental Indenture (incorporated by reference to Exhibit 4.2 to registrant's Registration Statement on Form 8-A filed on September 17, 2018, File No. 1-32853).</u>	X
4.1.21	<u>Twenty-First Supplemental Indenture (incorporated by reference to Exhibit 4.1 to Registrant's Current Report on Form 8-K filed on March 11, 2019, File no. 1-32853).</u>	X
4.1.22	<u>Twenty-Second Supplemental Indenture, dated as of June 7, 2019 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on June 7, 2019, File No. 1-32853).</u>	X
4.2	<u>Senior Indenture between Duke Energy Carolinas, LLC and The Bank of New York Mellon Trust Company, N.A., as successor trustee to JPMorgan Chase Bank (formerly known as The Chase Manhattan Bank), dated as of September 1, 1998, (incorporated by reference to Exhibit 4-D-1 to registrant's Post-Effective Amendment No. 2 to Registration Statement on Form S-3 filed on April 7, 1999, File No. 333-14209).</u>	X

EXHIBITS

4.2.1	<u>Fifteenth Supplemental Indenture, dated as of April 3, 2006, (incorporated by reference to Exhibit 4.4.1 to registrant's Registration Statement on Form S-3 filed on October 3, 2007, File No. 333-146483-03).</u>	X
4.2.2	<u>Sixteenth Supplemental Indenture, dated as of June 5, 2007, (incorporated by reference to Exhibit 4.1 registrant's Current Report on Form 8-K filed on June 6, 2007, File No. 1-4928).</u>	X
4.3	First and Refunding Mortgage from Duke Energy Carolinas, LLC to The Bank of New York Mellon Trust Company, N.A., successor trustee to Guaranty Trust Company of New York, dated as of December 1, 1927, (incorporated by reference to Exhibit 7(a) to registrant's Form S-1, effective October 15, 1947, File No. 2-7224).	X
4.3.1	<u>Instrument of Resignation, Appointment and Acceptance among Duke Energy Carolinas, LLC, JPMorgan Chase Bank, N.A., as Trustee, and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of September 24, 2007, (incorporated by reference to Exhibit 4.6.1 to registrant's Registration Statement on Form S-3 filed on October 3, 2007, File No. 333-146483).</u>	X
4.3.2	Ninth Supplemental Indenture, dated as of February 1, 1949, (incorporated by reference to Exhibit 7(j) to registrant's Form S-1 filed on February 3, 1949, File No. 2-7808).	X
4.3.3	Twentieth Supplemental Indenture, dated as of June 15, 1964, (incorporated by reference to Exhibit 4-B-20 to registrant's Form S-1 filed on August 23, 1966, File No. 2-25367).	X
4.3.4	Twenty-third Supplemental Indenture, dated as of February 1, 1968, (incorporated by reference to Exhibit 2-B-26 to registrant's Form S-9 filed on January 21, 1969, File No. 2-31304).	X
4.3.5	Sixtieth Supplemental Indenture, dated as of March 1, 1990, (incorporated by reference to Exhibit 4-B-61 to registrant's Annual Report on Form 10-K for the year ended December 31, 1990, File No.1-4928).	X
4.3.6	Sixty-third Supplemental Indenture, dated as of July 1, 1991, (incorporated by reference to Exhibit 4-B-64 to registrant's Registration Statement on Form S-3 filed on February 13, 1992, File No. 33-45501).	X
4.3.7	<u>Eighty-fourth Supplemental Indenture, dated as of March 20, 2006, (incorporated by reference to Exhibit 4.6.9 to registrant's Registration Statement on Form S-3 filed on October 3, 2007, File No. 333-146483-03).</u>	X
4.3.8	<u>Eighty-fifth Supplemental Indenture, dated as of January 10, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on January 11, 2008, File No.1-4928).</u>	X
4.3.9	<u>Eighty-seventh Supplemental Indenture, dated as of April 14, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on April 15, 2008, File No.1-4928).</u>	X
4.3.10	<u>Eighty-eighth Supplemental Indenture, dated as of November 17, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on November 20, 2008, File No.1-4928).</u>	X

EXHIBITS

4.3.11	<u>Ninetieth Supplemental Indenture, dated as of November 19, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on November 19, 2009, File No.1-4928).</u>	X	
4.3.12	<u>Ninety-first Supplemental Indenture, dated as of June 7, 2010, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on June 7, 2010, File No.1-4928).</u>	X	
4.3.13	<u>Ninety-third Supplemental Indenture, dated as of May 19, 2011, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on May 19, 2011, File No.1-4928).</u>	X	
4.3.14	<u>Ninety-fourth Supplemental Indenture, dated as of December 8, 2011, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on December 8, 2011, File No.1-4928).</u>	X	
4.3.15	<u>Ninety-fifth Supplemental Indenture, dated as of September 21, 2012, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on September 21, 2012, File No.1-4928).</u>	X	
4.3.16	<u>Ninety-sixth Supplemental Indenture, dated as of March 12, 2015, between Duke Energy Carolinas, LLC and The Bank of New York Mellon Trust Company, N.A., as Trustee (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on March 12, 2015, File No. 1-4928).</u>	X	
4.3.17	<u>Ninety-seventh Supplemental Indenture, dated as of March 11, 2016, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on March 11, 2016, File No. 1-4928).</u>	X	
4.3.18	<u>Ninety-eighth Supplemental Indenture, dated as of November 17, 2016, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on November 17, 2016, File No. 1-4928).</u>	X	
4.3.19	<u>Ninety-ninth Supplemental Indenture, dated as of November 14, 2017, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC Current Report on Form 8-K filed on November 14, 2017, File No. 1-4928).</u>	X	
4.3.20	<u>One Hundredth Supplemental Indenture, dated as of March 1, 2018 (incorporated by reference to Exhibit 4.1 to Registrant's Current Report on Form 8-K filed on March 1, 2018, File No. 1-4928).</u>	X	
4.3.21	<u>One-Hundred and Second Supplemental Indenture, dated as of August 14, 2019 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 14, 2019, File No. 1-04928).</u>	X	
4.4	Mortgage and Deed of Trust between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and The Bank of New York Mellon (formerly Irving Trust Company) and Frederick G. Herbst (Tina D. Gonzalez, successor), as Trustees, dated as of May 1, 1940.		X
4.4.1	First through Fifth Supplemental Indentures thereto (incorporated by reference to Exhibit 2(b), File No. 2-64189).		X
4.4.2	Sixth Supplemental Indenture dated April 1, 1960 (incorporated by reference to Exhibit 2(b)-5, File No. 2-16210).		X

EXHIBITS

4.4.3	Seventh Supplemental Indenture dated November 1, 1961 (incorporated by reference to Exhibit 2(b)-6, File No. 2-16210).	X
4.4.4	Eighth Supplemental Indenture dated July 1, 1964 (incorporated by reference to Exhibit 4(b)-8, File No. 2-19118).	X
4.4.5	Ninth Supplemental Indenture dated April 1, 1966 (incorporated by reference to Exhibit 4(b)-2, File No. 2-22439).	X
4.4.6	Tenth Supplemental Indenture dated October 1, 1967 (incorporated by reference to Exhibit 4(b)-2, File No. 2-24624).	X
4.4.7	Eleventh Supplemental Indenture dated October 1, 1968 (incorporated by reference to Exhibit 2(c), File No. 2-27297).	X
4.4.8	Twelfth Supplemental Indenture dated January 1, 1970 (incorporated by reference to Exhibit 2(c), File No. 2-30172).	X
4.4.9	Thirteenth Supplemental Indenture dated August 1, 1970 (incorporated by reference to Exhibit 2(c), File No. 2-35694).	X
4.4.10	Fourteenth Supplemental Indenture dated January 1, 1971 (incorporated by reference to Exhibit 2(c), File No. 2-37505).	X
4.4.11	Fifteenth Supplemental Indenture dated October 1, 1971 (incorporated by reference to Exhibit 2(c), File No. 2-39002).	X
4.4.12	Sixteenth Supplemental Indenture dated May 1, 1972 (incorporated by reference to Exhibit 2(c), File No. 2-41738).	X
4.4.13	Seventeenth Supplemental Indenture dated November 1, 1973 (incorporated by reference to Exhibit 2(c), File No. 2-43439).	X
4.4.14	Eighteenth Supplemental Indenture dated (incorporated by reference to Exhibit 2(c), File No. 2-47751).	X
4.4.15	Nineteenth Supplemental Indenture dated May 1, 1974 (incorporated by reference to Exhibit 2(c), File No. 2-49347).	X
4.4.16	Twentieth Supplemental Indenture dated December 1, 1974 (incorporated by reference to Exhibit 2(c), File No. 2-53113).	X
4.4.17	Twenty-first Supplemental Indenture dated April 15, 1975 (incorporated by reference to Exhibit 2(d), File No. 2-53113).	X
4.4.18	Twenty-second Supplemental Indenture dated October 1, 1977 (incorporated by reference to Exhibit 2(c), File No. 2-59511).	X
4.4.19	Twenty-third Supplemental Indenture dated June 1, 1978 (incorporated by reference to Exhibit 2(c), File No. 2-61611).	X
4.4.20	Twenty-fourth Supplemental Indenture dated May 15, 1979 (incorporated by reference to Exhibit 2(d), File No. 2-64189).	X
4.4.21	Twenty-fifth Supplemental Indenture dated November 1, 1979 (incorporated by reference to Exhibit 2(c), File No. 2-65514).	X
4.4.22	Twenty-sixth Supplemental Indenture dated November 1, 1979 (incorporated by reference to Exhibit 2(c), File No. 2-66851).	X

EXHIBITS

4.4.23	Twenty-seventh Supplemental Indenture dated April 1, 1980 (incorporated by reference to Exhibit 2 (d), File No. 2-66851).	X
4.4.24	Twenty-eighth Supplemental Indenture dated October 1, 1980 (incorporated by reference to Exhibit 4(b)-1, File No. 2-81299).	X
4.4.25	Twenty-ninth Supplemental Indenture dated October 1, 1980 (incorporated by reference to Exhibit 4(b)-2, File No. 2-81299).	X
4.4.26	Thirtieth Supplemental Indenture dated December 1, 1982 (incorporated by reference to Exhibit 4(b)- 3, File No. 2-81299).	X
4.4.27	Thirty-first Supplemental Indenture dated March 15, 1983 (incorporated by reference to Exhibit 4(c)-1, File No. 2-95505).	X
4.4.28	Thirty-second Supplemental Indenture dated March 15, 1983 (incorporated by reference to Exhibit 4(c)-2, File No. 2-95505).	X
4.4.29	Thirty-third Supplemental Indenture dated December 1, 1983 (incorporated by reference to Exhibit 4(c)-3, File No. 2-95505).	X
4.4.30	Thirty-fourth Supplemental Indenture dated December 15, 1983 (incorporated by reference to Exhibit 4(c)-4, File No. 2-95505).	X
4.4.31	Thirty-fifth Supplemental Indenture dated April 1, 1984 (incorporated by reference to Exhibit 4(c)-5, File No. 2-95505).	X
4.4.32	Thirty-sixth Supplemental Indenture dated June 1, 1984 (incorporated by reference to Exhibit 4(c)-6, File No. 2-95505).	X
4.4.33	Thirty-seventh Supplemental Indenture dated June 1, 1984 (incorporated by reference to Exhibit 4(c)-7, File No. 2-95505).	X
4.4.34	Thirty-eighth Supplemental Indenture dated June 1, 1984 (incorporated by reference to Exhibit 4(c)- 8, File No. 2-95505).	X
4.4.35	Thirty-ninth Supplemental Indenture dated April 1, 1985 (incorporated by reference to Exhibit 4(b), File No. 33-25560).	X
4.4.36	Fortieth Supplemental Indenture dated October 1, 1985 (incorporated by reference to Exhibit 4(c), File No. 33-25560).	X
4.4.37	Forty-first Supplemental Indenture dated March 1, 1986 (incorporated by reference to Exhibit 4(d), File No. 33-25560).	X
4.4.38	Forty-second Supplemental Indenture dated July 1, 1986 (incorporated by reference to Exhibit 4(e), File No. 33-25560).	X
4.4.39	Forty-third Supplemental Indenture dated January 1, 1987 (incorporated by reference to Exhibit 4(f), File No. 33-25560).	X
4.4.40	Forty-fourth Supplemental Indenture dated December 1, 1987 (incorporated by reference to Exhibit 4(g), File No. 33-25560).	X
4.4.41	Forty-fifth supplemental Indenture dated September 1, 1988 (incorporated by reference to Exhibit 4(h), File No. 33-25560).	X
4.4.42	Forty-sixth Supplemental Indenture dated April 1, 1989 (incorporated by reference to Exhibit 4(b), File No. 33-33431).	X

EXHIBITS

4.4.43	Forty-seventh Supplemental Indenture dated August 1, 1989 (incorporated by reference to Exhibit 4(c), File No. 33-33431).	X
4.4.44	Forty-eighth Supplemental Indenture dated November 15, 1990 (incorporated by reference to Exhibit 4(b), File No. 33-38298).	X
4.4.45	Forty-ninth Supplemental Indenture dated November 15, 1990 (incorporated by reference to Exhibit 4(c), File No. 33-38298).	X
4.4.46	Fiftieth Supplemental Indenture dated February 15, 1991 (incorporated by reference to Exhibit 4(h), File No. 33-42869).	X
4.4.47	Fifty-first Supplemental Indenture dated April 1, 1991 (incorporated by reference to Exhibit 4(i), File No. 33-42869).	X
4.4.48	Fifty-second Supplemental Indenture dated September 15, 1991 (incorporated by reference to Exhibit 4(e), File No. 33-48607).	X
4.4.49	Fifty-third Supplemental Indenture dated January 1, 1992 (incorporated by reference to Exhibit 4(f), File No. 33-48607).	X
4.4.50	Fifty-fourth Supplemental Indenture dated April 15, 1992 (incorporated by reference to Exhibit 4 (g), File No. 33-48607).	X
4.4.51	Fifty-fifth Supplemental Indenture dated July 1, 1992 (incorporated by reference to Exhibit 4(e), File No. 33-55060).	X
4.4.52	Fifty-sixth Supplemental Indenture dated October 1, 1992 (incorporated by reference to Exhibit 4(f), File No. 33-55060).	X
4.4.53	Fifty-seventh Supplemental Indenture dated February 1, 1993 (incorporated by reference to Exhibit 4(e), File No. 33-60014).	X
4.4.54	Fifty-eighth Supplemental Indenture dated March 1, 1993 (incorporated by reference to Exhibit 4(f), File No. 33-60014).	X
4.4.55	Fifty-ninth Supplemental Indenture dated July 1, 1993 (incorporated by reference to Exhibit 4(a) to Post-Effective Amendment No. 1, File No. 33-38349).	X
4.4.56	Sixtieth Supplemental Indenture dated July 1, 1993 (incorporated by reference to Exhibit 4(b) to Post-Effective Amendment No. 1, File No. 33-38349).	X
4.4.57	Sixty-first Supplemental Indenture dated August 15, 1993 (incorporated by reference to Exhibit 4(e), File No. 33-50597).	X
4.4.58	<u>Sixty-second Supplemental Indenture dated January 15, 1994 (incorporated by reference to Exhibit 4 to Duke Energy Progress' Current Report on Form 8-K dated January 19, 1994, File No. 1-3382).</u>	X
4.4.59	<u>Sixty-third Supplemental Indenture dated May 1, 1994 (incorporated by reference to Exhibit 4(f) for Duke Energy Progress' Form S-3, File No. 033-57835).</u>	X
4.4.60	<u>Sixty-fourth Supplemental Indenture dated August 15, 1997 (incorporated by reference to Exhibit to Duke Energy Progress' Current Report on Form 8-K dated August 26, 1997, File No. 1-3382).</u>	X

EXHIBITS

4.4.61	<u>Sixty-fifth Supplemental Indenture dated April 1, 1998 (incorporated by reference to Exhibit 4(b) for Duke Energy Progress' Registration Statement on Form S-3 filed December 18, 1998, File No. 333-69237).</u>	X
4.4.62	<u>Sixty-sixth Supplemental Indenture dated March 1, 1999 (incorporated by reference to Exhibit 4(c) to Duke Energy Progress' Current Report on Form 8-K dated March 19, 1999, File No. 1-3382).</u>	X
4.4.63	<u>Form of Carolina Power & Light Company First Mortgage Bond, 6.80% Series Due August 15, 2007 (incorporated by reference to Exhibit 4 to Duke Energy Progress' Form 10-Q for the period ended September 30, 1998, File No. 1-3382).</u>	X
4.4.64	<u>Sixty-eighth Supplemental Indenture dated April 1, 2000 (incorporated by reference to Exhibit No. 4(b) to Duke Energy Progress' Current Report on Form 8-K dated April 20, 2000, File No. 1-3382).</u>	X
4.4.65	<u>Sixty-ninth Supplemental Indenture dated June 1, 2000 (incorporated by reference to Exhibit No. 4b(2) to Duke Energy Progress' Annual Report on Form 10-K dated March 29, 2001, File No. 1-3382).</u>	X
4.4.66	<u>Seventieth Supplemental Indenture dated July 1, 2000 (incorporated by reference to Exhibit 4b(3) to Duke Energy Progress' Annual Report on Form 10-K dated March 29, 2001, File No. 1-3382).</u>	X
4.4.67	<u>Seventy-first Supplemental Indenture dated February 1, 2002 (incorporated by reference to Exhibit 4b(2) to Duke Energy Progress' Annual Report on Form 10-K dated March 28, 2002, File No. 1-3382 and 1-15929).</u>	X
4.4.68	<u>Seventy-second Supplemental Indenture, dated as of September 1, 2003, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on September 12, 2003, File No. 1-3382).</u>	X
4.4.69	<u>Seventy-third Supplemental Indenture, dated as of March 1, 2005, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on March 22, 2005, File No. 1-3382).</u>	X
4.4.70	<u>Seventy-fourth Supplemental Indenture, dated as of November 1, 2005, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on November 30, 2005, File No. 1-3382).</u>	X
4.4.71	<u>Seventy-fifth Supplemental Indenture, dated as of March 1, 2008, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on March 13, 2008, File No. 1-3382).</u>	X
4.4.72	<u>Seventy-sixth Supplemental Indenture, dated as of January 1, 2009, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on January 15, 2009, File No. 1-3382).</u>	X

EXHIBITS

4.4.73	<u>Seventy-seventh Supplemental Indenture, dated as of June 18, 2009, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on June 23, 2009, File No. 1-3382).</u>	X
4.4.74	<u>Seventy-eighth Supplemental Indenture, dated as of September 1, 2011, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on September 15, 2011, File No. 1-3382).</u>	X
4.4.75	<u>Seventy-ninth Supplemental Indenture, dated as of May 1, 2012, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on May 18, 2012, File No. 1-3382).</u>	X
4.4.76	<u>Eightieth Supplemental Indenture, dated as of March 1, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on March 12, 2013, File No. 1-3382).</u>	X
4.4.77	<u>Eighty-second Supplemental Indenture, dated as of March 1, 2014, between the Company and The Bank of New York Mellon (formerly Irving Trust Company) and Tina D. Gonzalez (successor to Frederick G. Herbst) and forms of global notes (incorporated by reference to Exhibit 4.1 to Duke Energy Progress, Inc.'s Current Report on Form 8-K filed on March 6, 2014, File No. 1-3382).</u>	X
4.4.78	<u>Eighty-third Supplemental Indenture, dated as of November 1, 2014, between the Company and The Bank of New York Mellon (formerly Irving Trust Company) and Tina D. Gonzalez (successor to Frederick G. Herbst) and forms of global notes (incorporated by reference to Exhibit 4.1 to Duke Energy Progress, Inc.'s Current Report on Form 8-K filed on November 20, 2014, File No. 1-3382).</u>	X
4.4.79	<u>Eighty-fifth Supplemental Indenture, dated as of August 1, 2015, (incorporated by reference to Exhibit 4.1 to Duke Energy Progress, LLC's Current Report on Form 8-K filed on August 13, 2015, File No. 1-3382).</u>	X
4.4.80	<u>Eighty-sixth Supplemental Indenture, dated as of September 1, 2016, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 16, 2016, File No. 1-15929).</u>	X
4.4.81	<u>Eighty-seventh Supplemental Indenture, dated as of September 1, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 8, 2017, File No. 1-3382).</u>	X
4.4.82	<u>Eighty-Ninth Supplemental Indenture (incorporated by reference to Exhibit 4.1 to Registrant's Current Report on Form 8-K filed on March 7, 2019, File no. 1-3382).</u>	X
4.5	<u>Indenture (for Debt Securities) between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and The Bank of New York Mellon (successor in interest to The Chase Manhattan Bank), as Trustee (incorporated by reference to Exhibit 4(a) to registrant's Current Report on Form 8-K filed on November 5, 1999, File No. 1-3382).</u>	X

EXHIBITS

4.6	<u>Indenture (for [Subordinated] Debt Securities) (open ended) (incorporated by reference to Exhibit 4(a)(2) to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Registration Statement on Form S-3 filed on November 18, 2008, File No. 333-155418).</u>	X
4.7	Indenture (for First Mortgage Bonds) between Duke Energy Florida, Inc. (formerly Florida Power Corporation) and The Bank of New York Mellon (as successor to Guaranty Trust Company of New York and The Florida National Bank of Jacksonville), as Trustee, dated as of January 1, 1944, (incorporated by reference to Exhibit B-18 to registrant's Form A-2, File No. 2-5293).	X
4.7.1	Seventh Supplemental Indenture (incorporated by reference to Exhibit 4(b) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 27, 1991, File No. 33-16788).	X
4.7.2	Eighth Supplemental Indenture (incorporated by reference to Exhibit 4(c) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 27, 1991, File No. 33-16788).	X
4.7.3	Sixteenth Supplemental Indenture (incorporated by reference to Exhibit 4(d) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 27, 1991, File No. 33-16788).	X
4.7.4	Twenty-ninth Supplemental Indenture (incorporated by reference to Exhibit 4(c) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 17, 1982, File No. 2-79832).	X
4.7.5	<u>Thirty-eighth Supplemental Indenture, dated as of July 25, 1994, (incorporated by reference to exhibit 4(f) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on August 29, 1994, File No. 33-55273).</u>	X
4.7.6	<u>Forty-first Supplemental Indenture, dated as of February 1, 2003, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Duke Energy Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on February 21, 2003, File No. 1-3274).</u>	X
4.7.7	<u>Forty-second Supplemental Indenture, dated as of April 1, 2003, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Quarterly Report on Form 10-Q for the quarter ended June 30, 2003, filed on August 11, 2003, File No. 1-3274).</u>	X
4.7.8	<u>Forty-third Supplemental Indenture, dated as of November 1, 2003, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on November 21, 2003, File No. 1-3274).</u>	X
4.7.9	<u>Forty-fourth Supplemental Indenture, dated as of August 1, 2004, (incorporated by reference to Exhibit 4(m) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Annual Report on Form 10-K for the year ended December 31, 2004, filed on March 16, 2005, File No. 1-3274).</u>	X

EXHIBITS

4.7.10	<u>Forty-sixth Supplemental Indenture, dated as of September 1, 2007, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on September 19, 2007, File No. 1-3274).</u>	X
4.7.11	<u>Forty-seventh Supplemental Indenture, dated as of December 1, 2007, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on December 13, 2007, File No. 1-3274).</u>	X
4.7.12	<u>Forty-eighth Supplemental Indenture, dated as of June 1, 2008, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on June 18, 2008, File No. 1-3274).</u>	X
4.7.13	<u>Forty-ninth Supplemental Indenture, dated as of March 1, 2010, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on March 25, 2010, File No. 1-3274).</u>	X
4.7.14	<u>Fiftieth Supplemental Indenture, dated as of August 11, 2011, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on August 18, 2011, File No. 1-3274).</u>	X
4.7.15	<u>Fifty-first Supplemental Indenture, dated as of November 1, 2012, (incorporated by reference to Exhibit 4.1 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on November 20, 2012, File No. 1-3274).</u>	X
4.7.16	<u>Fifty-third Supplemental Indenture, dated as of September 1, 2016, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 9, 2016, File No. 1-03274).</u>	X
4.7.17	<u>Fifty-fifth Supplemental Indenture, dated as of June 1, 2018, (incorporated by reference to Exhibit 4.1 to Registrant's Current Report on Form 8-K filed on June 21, 2018, File No. 1-3274).</u>	X
4.7.18	<u>Fifty-Sixth Supplemental Indenture, dated as of November 1, 2019 (incorporated by reference to Exhibit 4.1 to Registrant's Current Report on Form 8-K filed on November 26, 2019, File No. 1-3274).</u>	X
4.8	<u>Indenture (for Debt Securities) between Duke Energy Florida, Inc. (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) and The Bank of New York Mellon Trust Company, National Association (successor in interest to J.P. Morgan Trust Company, National Association), as Trustee, dated as of December 7, 2005, (incorporated by reference to Exhibit 4(a) to registrant's Current Report on Form 8-K filed on December 13, 2005, File No. 1-3274).</u>	X
4.8.1	<u>First Supplemental Indenture, dated as of December 12, 2017, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on December 12, 2017, File No. 1-03274).</u>	X

EXHIBITS

4.8.2	Second Supplemental Indenture, dated as of November 26, 2019 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on November 26, 2019, File No. 1-3274).	X
4.9	Indenture (for [Subordinated] Debt Securities) (open ended) (incorporated by reference to Exhibit 4(a)(2) Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Registration Statement on Form S-3 filed on November 18, 2008, File No. 333-155418).	X
4.10	Original Indenture (Unsecured Debt Securities) between Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company) and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of May 15, 1995, (incorporated by reference to Exhibit 3 to registrant's Form 8-A filed on July 27, 1995, File No. 1-1232).	X
4.10.1	First Supplemental Indenture, dated as of June 1, 1995, (incorporated by reference to Exhibit 4 B to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Quarterly Report on Form 10-Q for the quarter ended June 30, 1995, filed on August 11, 1995, File No. 1-1232).	X
4.10.2	Seventh Supplemental Indenture, dated as of June 15, 2003, (incorporated by reference to Exhibit 4.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Quarterly Report on Form 10-Q for the quarter ended June 30, 2003, filed on August 13, 2003, File No. 1-1232).	X
4.11	Original Indenture (First Mortgage Bonds) between Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company) and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of August 1, 1936, (incorporated by reference to an exhibit to registrant's Registration Statement No. 2-2374).	X
4.11.1	Fortieth Supplemental Indenture, dated as of March 23, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Current Report on Form 8-K filed on March 24, 2009, File No. 1-1232).	X
4.11.2	Forty-second Supplemental Indenture, dated as of September 6, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Current Report on Form 8-K filed on September 6, 2013, File No. 1-1232).	X
4.11.3	Forty-fourth Supplemental Indenture, dated as of June 23, 2016, (incorporated by reference to Exhibit 4.1 registrant's Current Report on Form 8-K filed on June 23, 2016, File No. 1-1232).	X
4.11.4	Forty-fifth Supplemental Indenture, dated as of March 27, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on March 27, 2017, File No. 1-01232).	X
4.11.5	Forty-sixth Supplemental Indenture, dated as of January 8, 2019, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on January 8, 2019, File No. 1-1232).	X

EXHIBITS

4.12	<u>Indenture between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of November 15, 1996, (incorporated by reference to Exhibit 4(v) to the Cinergy Corp. Form 10-K for the year ended December 31, 1996, filed on March 27, 1997, File No. 1-11377).</u>	X
4.12.1	<u>Third Supplemental Indenture, dated as of March 15, 1998, (incorporated by reference to Exhibit 4-w to Cinergy Corp.'s Annual Report on Form 10-K for the year ended December 31, 1997, filed on March 27, 1998, File No. 1-11377).</u>	X
4.12.2	<u>Eighth Supplemental Indenture, dated as of September 23, 2003, (incorporated by reference to Exhibit 4.2 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Quarterly Report on Form 10-Q for the quarter ended September 30, 2003, filed on November 13, 2003, File No. 1-3543).</u>	X
4.12.3	<u>Ninth Supplemental Indenture, dated as of October 21, 2005, (incorporated by reference to Exhibit 4.7.3 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633).</u>	X
4.12.4	<u>Tenth Supplemental Indenture, dated as of June 9, 2006, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on June 15, 2006, File No. 1-3543).</u>	X
4.13	Original Indenture (First Mortgage Bonds) between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Deutsche Bank National Trust Company, as Successor Trustee, dated as of September 1, 1939, (filed as an exhibit in File No. 70-258).	X
4.13.1	Tenth Supplemental Indenture, dated as of July 1, 1952, (filed as an exhibit in File No. 2-9687).	X
4.13.2	Twenty-third Supplemental Indenture, dated as of January 1, 1977, (filed as an exhibit in File No. 2-57828).	X
4.13.3	Twenty-fifth Supplemental Indenture, dated as of September 1, 1978, (filed as an exhibit in File No. 2-62543).	X
4.13.4	Twenty-sixth Supplemental Indenture, dated as of September 1, 1978, (filed as an exhibit in File No. 2-62543).	X
4.13.5	Thirtieth Supplemental Indenture, dated as of August 1, 1980, (filed as an exhibit in File No. 2-68562).	X
4.13.6	Thirty-fifth Supplemental Indenture, dated as of March 30, 1984, (filed as an exhibit to registrant's Annual Report on Form 10-K for the year ended December 31, 1984, File No. 1-3543).	X
4.13.7	Forty-sixth Supplemental Indenture, dated as of June 1, 1990, (filed as an exhibit to registrant's Annual Report on Form 10-K for the year ended December 31, 1991, File No. 1-3543).	X
4.13.8	Forty-seventh Supplemental Indenture, dated as of July 15, 1991, (filed as an exhibit to registrant's Annual Report on Form 10-K for the year ended December 31, 1991, File No. 1-3543).	X

EXHIBITS

4.13.9	Forty-eighth Supplemental Indenture, dated as of July 15, 1992, (filed as an exhibit to registrant's Annual Report on Form 10-K for the year ended December 31, 1992, File No. 1-3543).	X
4.13.10	<u>Fifty-second Supplemental Indenture, dated as of April 30, 1999, (incorporated by reference to Exhibit 4 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Quarterly Report on Form 10-Q for the quarter ended March 31, 1999, filed on May 13, 1999, File No. 1-3543).</u>	X
4.13.11	<u>Fifty-seventh Supplemental Indenture, dated as of August 21, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report Form 8-K filed on August 21, 2008, File No. 1-3543).</u>	X
4.13.12	<u>Fifty-eighth Supplemental Indenture, dated as of December 19, 2008, (incorporated by reference to Exhibit 4.8.12 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633-02).</u>	X
4.13.13	<u>Fifty-ninth Supplemental Indenture, dated as of March 23, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on March 24, 2009, File No. 1-3543).</u>	X
4.13.14	<u>Sixtieth Supplemental Indenture, dated as of June 1, 2009, (incorporated by reference to Exhibit 4.8.14 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633-02).</u>	X
4.13.15	<u>Sixty-first Supplemental Indenture, dated as of October 1, 2009, (incorporated by reference to Exhibit 4.8.15 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633-02).</u>	X
4.13.16	<u>Sixty-second Supplemental Indenture, dated as of July 9, 2010, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on July 9, 2010, File No. 1-3543).</u>	X
4.13.17	<u>Sixty-third Supplemental Indenture, dated as of September 23, 2010, (incorporated by reference to Exhibit 4.8.17 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633-02).</u>	X
4.13.18	<u>Sixty-fourth Supplemental Indenture, dated as of December 1, 2011, (incorporated by reference to Exhibit 4(d)(2)(xviii) to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 30, 2013, File No. 333-191462-03).</u>	X
4.13.19	<u>Sixty-fifth Supplemental Indenture, dated as of March 15, 2012, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on March 15, 2012, File No. 1-3543).</u>	X

EXHIBITS

4.13.20	<u>Sixty-sixth Supplemental Indenture, dated as of July 11, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on July 11, 2013, File No. 1-3543).</u>	X
4.13.21	<u>Sixty-seventh Supplemental Indenture, dated as of January 1, 2016, between Duke Energy Indiana, Inc. and Deutsche Bank National Trust Company, as Trustee, supplementing and amending the Indenture of Mortgage or Deed of Trust, dated September 1, 1939, between Duke Energy Indiana, Inc. and Deutsche Bank National Trust Company, as Trustee (incorporated by reference to Exhibit 4.2 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Quarterly Report on Form 10-Q for the quarter ended March 31, 2016, filed on May 5, 2016, File No. 1-3543).</u>	X
4.13.22	<u>Sixty-eighth Supplemental Indenture, dated as of May 12, 2016, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on May 12, 2016, File No. 1-3543).</u>	X
4.13.23	<u>Sixty-Ninth Supplemental Indenture, dated as of September 27, 2019 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 27, 2019, File No. 1-3543).</u>	X
4.14	Repayment Agreement between Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company) and The Dayton Power and Light Company, dated as of December 23, 1992, (filed with registrant's Annual Report on Form 10-K for the year ended December 31, 1992, File No. 1-1232).	X
4.15	<u>Unsecured Promissory Note between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and the Rural Utilities Service, dated as of October 14, 1998, (incorporated by reference to Exhibit 4 to registrant's Annual Report on Form 10-K for the year ended December 31, 1998, filed on March 8, 1999, File No. 1-3543).</u>	X
4.16	<u>6.302% Subordinated Note between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Cinergy Corp., dated as of February 5, 2003, (incorporated by reference to Exhibit 4(yyy) to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2003, filed on May 12, 2003, File No. 1-3543).</u>	X
4.17	<u>6.403% Subordinated Note between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Cinergy Corp., dated as of February 5, 2003, (incorporated by reference to Exhibit 4(zzz) to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2003, filed on May 12, 2003, File No. 1-3543).</u>	X
4.18	<u>Contingent Value Obligation Agreement between Progress Energy, Inc. (formerly CP&L Energy, Inc.) and The Chase Manhattan Bank, as Trustee, dated as of November 30, 2000, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on December 1, 2000, File No. 1-3382).</u>	X
4.19	<u>Form of 3.47% Series A Senior Notes due July 16, 2027 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on March 29, 2012, File No. 1-06196).</u>	X
4.20	<u>Form of 3.57% Series B Senior Notes due July 16, 2027 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on March 29, 2012, File No. 1-06196).</u>	X
4.21	<u>Form of 4.65% Senior Notes due 2043 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on August 1, 2013, File No. 1-06196).</u>	X

EXHIBITS

4.22	<u>Form of 4.10% Senior Notes due 2034 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on September 18, 2014, File No. 1-06196).</u>	X
4.23	<u>Form of 3.60% Senior Notes due 2025 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on September 14, 2015, File No. 1-06196).</u>	X
4.24	<u>Form of 3.64% Senior Notes due 2046 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on July 28, 2016, File No. 1-06196).</u>	X
4.25	<u>Form of 4.24% Series B Senior Notes due June 6, 2021 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on May 12, 2011, File No. 1-06196).</u>	X
4.26	<u>Indenture, dated as of April 1, 1993, between Piedmont and The Bank of New York Mellon Trust Company, N.A. (as successor to Citibank, N.A.), Trustee (incorporated by reference to Exhibit 4.1 to registrant's Registration Statement on Form S-3 filed on May 16, 1995, File No. 33-59369).</u>	X
4.26.1	<u>Second Supplemental Indenture, dated as of June 15, 2003, between Piedmont and Citibank, N.A., Trustee (incorporated by reference to Exhibit 4.3 to registrant's Registration Statement on Form S-3 filed on June 19, 2003, File No. 333-106268).</u>	X
4.26.2	<u>Fourth Supplemental Indenture, dated as of May 6, 2011, between Piedmont Natural Gas Company, Inc. and The Bank of New York Mellon Trust Company, N.A., as trustee (incorporated by reference to Exhibit 4.2 to registrant's Registration Statement on Form S-3-ASR filed on July 7, 2011, File No. 333-175386).</u>	X
4.26.3	<u>Fifth Supplemental Indenture, dated August 1, 2013, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 1, 2013, File No. 1-06196).</u>	X
4.26.4	<u>Sixth Supplemental Indenture, dated September 18, 2014, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 18, 2014, File No. 1-06196).</u>	X
4.26.5	<u>Seventh Supplemental Indenture, dated September 14, 2015, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 14, 2015, File No. 1-06196).</u>	X
4.26.6	<u>Eighth Supplemental Indenture, dated July 28, 2016, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on July 28, 2016, File No. 1-06196).</u>	X

EXHIBITS

4.26.7	<u>Ninth Supplemental Indenture, dated as of May 24, 2019 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on May 24, 2019, File No. 1-6196).</u>	X
4.27	Medium-Term Note, Series A, dated as of October 6, 1993 (incorporated by reference to Exhibit 4.8 to registrant's Annual Report on Form 10-K for the year ended October 31, 1993, File No. 1-06196).	X
4.28	<u>Medium-Term Note, Series A, dated as of September 19, 1994 (incorporated by reference to Exhibit 4.9 to registrant's Annual Report on Form 10-K for the year ended October 31, 1994, File No. 1-06196).</u>	X
4.29	<u>Form of 6% Medium-Term Note, Series E, dated as of December 19, 2003 (incorporated by reference to Exhibit 99.2 to registrant's Current Report on Form 8-K filed on December 23, 2003, File No. 1-06196).</u>	X
4.30	<u>Form of Master Global Note (incorporated by reference to Exhibit 4.4 to registrant's Registration Statement on Form S-3 filed on April 30, 1997, File No. 333-26161).</u>	X
4.31	<u>Pricing Supplement of Medium-Term Notes, Series B, dated October 3, 1995 (incorporated by reference to Exhibit 4.10 to registrant's Annual Report on Form 10-K for the year ended October 31, 1995, File No. 1-06196).</u>	X
4.32	<u>Pricing Supplement of Medium-Term Notes, Series B, dated October 4, 1996 (incorporated by reference to Exhibit 4.11 to registrant's Annual Report on Form 10-K for the year ended October 31, 1996, File No. 1-06196).</u>	X
4.33	<u>Pricing Supplement of Medium-Term Notes, Series C, dated September 15, 1999 (incorporated by reference to Rule 424(b)(3) Pricing Supplement to Form S-3 Registration Statement Nos. 33-59369 and 333-26161).</u>	X
4.34	<u>Agreement of Resignation, Appointment and Acceptance dated as of March 29, 2007, by and among Piedmont Natural Gas Company, Inc., Citibank, N.A., and The Bank of New York Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended April 30, 2007, filed on June 8, 2007, File No. 1-06196).</u>	X
10.1	<u>Agreements with Piedmont Electric Membership Corporation, Rutherford Electric Membership Corporation and Blue Ridge Electric Membership Corporation (incorporated by reference to Exhibit 10.15 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006, filed on August 9, 2006, File No. 1-32853).</u>	X
10.2	<u>Asset Purchase Agreement between Saluda River Electric Cooperative, Inc., as Seller, and Duke Energy Carolinas, LLC, as Purchaser, dated as of December 20, 2006, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on December 27, 2006, File No. 1-4928).</u>	X
10.3	<u>Settlement between Duke Energy Corporation, Duke Energy Carolinas, LLC and the U.S. Department of Justice resolving Duke Energy's used nuclear fuel litigation against the U.S. Department of Energy, dated as of March 6, 2007, (incorporated by reference to Item 8.01 to registrant's Current Report on Form 8-K filed on March 12, 2007, File No. 1-4928).</u>	X

EXHIBITS

10.4	<u>Letter Agreement between Georgia Natural Gas Company and Piedmont Energy Company dated February 12, 2016 (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on February 18, 2016, File No. 1-06196).</u>			X
10.5	<u>Assignment of Membership Interests dated as of October 3, 2016 between Piedmont ACP Company, LLC and Dominion Atlantic Coast Pipeline, LLC, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on October 7, 2016, File No. 1-06196).</u>			X
10.6	<u>Agreements between Piedmont Electric Membership Corporation, Rutherford Electric Membership Corporation and Blue Ridge Electric Membership Corporation (incorporated by reference to Exhibit 10.15 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006 filed on August 9, 2006, File No. 1-32853).</u>	X		
10.7	<u>Conveyance and Assignment Agreement, dated as of October 3, 2016, by and between Piedmont Energy Company and Georgia Natural Gas Company (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on October 3, 2016, File No. 1-06196).</u>			X
10.8	<u>Engineering, Procurement and Construction Management Agreement between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Bechtel Power Corporation, dated as of December 15, 2008, (incorporated by reference to Exhibit 10.16 to registrant's Annual Report on Form 10-K for the year ended December 31, 2008, filed on March 13, 2009, File No. 1-3543). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)</u>			X
10.9	<u>Formation and Sale Agreement between Duke Ventures, LLC, Crescent Resources, LLC, Morgan Stanley Real Estate Fund V U.S. L.P., Morgan Stanley Real Estate Fund V Special U.S., L.P., Morgan Stanley Real Estate Investors V U.S., L.P., MSP Real Estate Fund V, L.P., and Morgan Stanley Strategic Investments, Inc., dated as of September 7, 2006, (incorporated by reference to Exhibit 10.3 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2006, filed on November 9, 2006, File No. 1-32853).</u>	X		
10.10	<u>Operating Agreement of Pioneer Transmission, LLC (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2008, filed on November 7, 2008, File No. 1-32853).</u>	X		
10.11**	<u>Amended and Restated Duke Energy Corporation Directors' Saving Plan, dated as of January 1, 2014, (incorporated by reference to Exhibit 10.32 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2013, filed on February 28, 2014, File No. 1-32853).</u>	X		
10.12	<u>Engineering, Procurement and Construction Management Agreement between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Bechtel Power Corporation, dated as of December 15, 2008, (incorporated by reference to Item 1.01 to registrant's Current Report on Form 8-K filed on December 19, 2008, File Nos. 1-32853 and 1-3543). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)</u>	X		X

EXHIBITS

10.13**	Duke Energy Corporation Executive Severance Plan (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on January 13, 2011, File No. 1-32853).	X							
10.14	\$6,000,000,000 Five-Year Credit Agreement between Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Carolina Power and Light Company d/b/a Duke Energy Progress, Inc. and Florida Power Corporation, d/b/a Duke Energy Florida, Inc., as Borrowers, the lenders listed therein, Wells Fargo Bank, National Association, as Administrative Agent, Bank of America, N.A. and The Royal Bank of Scotland plc, as Co-Syndication Agents and Bank of China, New York Branch, Barclays Bank PLC, Citibank, N.A., Credit Suisse AG, Cayman Islands Branch, Industrial and Commercial Bank of China Limited, New York Branch, JPMorgan Chase Bank, N.A. and UBS Securities LLC, as Co-Documentation Agents, dated as of November 18, 2011, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on November 25, 2011, File Nos. 1-32853, 1-4928, 1-1232 and 1-3543).	X	X			X	X		
10.14.1	Amendment No. 1 and Consent between Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Duke Energy Progress, Inc., Duke Energy Florida, Inc., and Wells Fargo Bank, National Association, dated as of December 18, 2013, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on December 23, 2013, File Nos. 1-32853, 1-4928, 1-3382, 1-3274, 1-1232 and 1-3543).	X	X		X	X	X	X	
10.14.2	Amendment No. 2 and Consent between Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Duke Energy Progress, Inc., and Duke Energy Florida, Inc., the Lenders party hereto, the issuing Lenders party hereto, Wells Fargo Bank, National Association, as Administrative Agent and Swingline Lender, dated as of January 30, 2015, (incorporated by reference to Exhibit 10.1 of registrant's Current Report on Form 8-K filed on February 5, 2015, File Nos. 1-32853, 1-4928, 1-1232, 1-3543, 1-3382 and 1-3274).	X	X		X	X	X	X	
10.14.3	Amendment No. 3 and Consent, dated as of March 16, 2017, among the registrants, the Lenders party thereto, the issuing Lenders party thereto, and Wells Fargo Bank, National Association, as Administrative Agent and Swingline Lender (incorporated by reference to Exhibit 10.1 to registrants' Current Report on Form 8-K filed on March 17, 2017, File Nos. 1-32853, 1-04928, 1-03382, 1-03274, 1-01232, 1-03543, 1-06196).	X	X		X	X	X	X	X
10.14.4	Amendment No.4 and Consent, dated as of March 18, 2019, among Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Duke Energy Progress, LLC, Duke Energy Florida, LLC, and Piedmont Natural Gas Company, Inc., the Lenders party thereto, the Issuing Lenders party thereto, and Wells Fargo Bank, National Association, as Administrative Agent and Swingline Lender (incorporated by reference to Exhibit 10.1 to Registrants' Current Report on Form 8-K filed on March 21, 2019, File nos. 1-32853, 1-4928, 1-3382, 1-3274, 1-1232, 1-3543, 1-6196).	X	X		X	X	X	X	X
10.15**	Duke Energy Corporation 2010 Long-Term Incentive Plan (incorporated by reference to Appendix A to registrant's Form DEF 14A filed on March 22, 2010, File No. 1-32853).	X							
10.15.1**	Amendment to Duke Energy Corporation 2010 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.3 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2012, filed on August 8, 2012, File No. 1-32853).	X							

EXHIBITS

10.16**	<u>Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Appendix C to registrant's DEF 14A filed on March 26, 2015, File No. 1-32853).</u>	X		
10.16.1**	<u>Amendment to Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.16.1 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2018, filed on February 28, 2019, File No. 1-32853).</u>	X		
10.17**	<u>Restricted Stock Unit Award Agreement (incorporated by reference to Exhibit 10.4 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).</u>	X		
10.18**	<u>Restricted Stock Unit Award Agreement (incorporated by reference to Exhibit 10.24 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2017 filed on February 21, 2018, File No. 1-32853).</u>	X		
10.19**	<u>Performance-Based Retention Award Agreement (incorporated by reference to Exhibit 10.2 to registrant's Current Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).</u>	X		
10.20**	<u>Performance Award Agreement (incorporated by reference to Exhibit 10.3 to registrant's Current Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).</u>	X		
10.21**	<u>Performance Award Agreement (incorporated by reference to Exhibit 10.27 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2017 filed on February 21, 2018, File No. 1-32853).</u>	X		
10.22**	<u>Performance Share Award Agreement (incorporated by reference to Exhibit 10.2 to Duke Energy Corporation's Current Report on Form 10-Q for the quarter ended March 31, 2019 filed on May 9, 2019, File No. 1-32853).</u>	X		
10.23**	<u>Restricted Stock Unit Award Agreement (incorporated by reference to Exhibit 10.3 to Duke Energy Corporation's Current Report on Form 10-Q for the quarter ended March 31, 2019 filed on May 9, 2019, File No. 1-32853).</u>	X		
10.24	<u>Settlement Agreement between Duke Energy Corporation, the North Carolina Utilities Commission Staff and the North Carolina Public Staff, dated as of November 28, 2012, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on November 29, 2012, File No. 1-32853).</u>	X		
10.25	<u>Settlement Agreement between Duke Energy Corporation and the North Carolina Attorney General, dated as of December 3, 2012, (incorporated by reference Item 7.01 to registrant's Current Report on Form 8-K filed on December 3, 2012, File No. 1-32853).</u>	X		
10.26	<u>Settlement Agreement between Duke Energy Carolinas, LLC, Duke Energy Progress, LLC, and The North Carolina Department of Environmental Quality, dated as of December 31, 2019, (incorporated by reference to Exhibit 10.1 to registrants' Current Report on Form 8-K filed on January 2, 2020, File Nos. 1-4928, 1-3382).</u>	X		X

EXHIBITS

10.27**	<u>Form of Change-in-Control Agreement (incorporated by reference to Exhibit 10.58 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2012, filed on March 1, 2013, File No. 1-32853).</u>	X
10.28**	<u>Amended and Restated Duke Energy Corporation Executive Cash Balance Plan, dated as of January 1, 2014, (incorporated by reference to Exhibit 10.52 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2013, filed on February 28, 2014, File No. 1-32852).</u>	X
10.29	Purchase, Construction and Ownership Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Municipal Power Agency Number 3 and Exhibits, together with resolution, dated as of December 16, 1981, changing name to North Carolina Eastern Municipal Power Agency, amending letter, dated as of February 18, 1982, and amendment, dated as of February 24, 1982, (incorporated by reference to Exhibit 10(a) to registrant's File No. 33-25560).	X
10.30	Operating and Fuel Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Municipal Power Agency Number 3 and Exhibits, together with resolution, dated as of December 16, 1981, changing name to North Carolina Eastern Municipal Power Agency, amending letters, dated as of August 21, 1981, and December 15, 1981, and amendment, dated as of February 24, 1982, (incorporated by reference to Exhibit 10(b) to registrant's File No. 33-25560).	X
10.31	Power Coordination Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Municipal Power Agency Number 3 and Exhibits, together with resolution, dated as of December 16, 1981, changing name to North Carolina Eastern Municipal Power Agency and amending letter, dated as of January 29, 1982, (incorporated by reference to Exhibit 10(c) to registrant's File No. 33-25560).	X
10.32	Amendment, dated as of December 16, 1982, to Purchase, Construction and Ownership Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Eastern Municipal Power Agency (incorporated by reference to Exhibit 10(d) to registrant's File No. 33-25560).	X
10.33**	<u>Progress Energy, Inc. 2007 Equity Incentive Plan (incorporated by reference to Exhibit C to registrant's Form DEF 14A filed on March 30, 2007, File No. 1-15929).</u>	X

EXHIBITS

10.34	<u>Precedent and Related Agreements between Duke Energy Florida, Inc. (formerly Florida Power Corporation d/b/a Progress Energy Florida, Inc. ("PEF")), Southern Natural Gas Company, Florida Gas Transmission Company ("FGT"), and BG LNG Services, LLC ("BG"), including: a) Precedent Agreement between Southern Natural Gas Company and PEF, dated as of December 2, 2004; b) Gas Sale and Purchase Contract between BG and PEF, dated as of December 1, 2004; c) Interim Firm Transportation Service Agreement by and between FGT and PEF, dated as of December 2, 2004; d) Letter Agreement between FGT and PEF, dated as of December 2, 2004, and Firm Transportation Service Agreement between FGT and PEF to be entered into upon satisfaction of certain conditions precedent; e) Discount Agreement between FGT and PEF, dated as of December 2, 2004; f) Amendment to Gas Sale and Purchase Contract between BG and PEF, dated as of January 28, 2005; and g) Letter Agreement between FGT and PEF, dated as of January 31, 2005, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K/A filed on March 15, 2005, File Nos. 1-15929 and 1-3274). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)</u>	X	X
10.35	<u>Engineering, Procurement and Construction Agreement between Duke Energy Florida, Inc. (formerly Florida Power Corporation d/b/a/ Progress Energy Florida, Inc.), as owner, and a consortium consisting of Westinghouse Electric Company LLC and Stone & Webster, Inc., as contractor, for a two-unit AP1000 Nuclear Power Plant, dated as of December 31, 2008, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on March 2, 2009, File Nos. 1-15929 and 1-3274). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)</u>	X	X
10.36**	<u>Employment Agreement between Duke Energy Corporation and Lynn J. Good, dated as of June 17, 2013, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 18, 2013, File No. 1-32853).</u>		X
10.36.1**	<u>Amendment to Employment Agreement between Duke Energy Corporation and Lynn J. Good, dated as of June 25, 2015, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 29, 2015, File No. 1-32853).</u>		X
10.37**	<u>Duke Energy Corporation Executive Short-Term Incentive Plan, effective February 25, 2013, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on May 7, 2013, File No. 1-32853).</u>		X
10.38**	<u>Duke Energy Corporation 2017 Director Compensation Program Summary (incorporated by reference to Exhibit 10.3 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2017 filed on August 3, 2017, File No. 1-32853).</u>		X
10.39**	<u>Amended and Restated Duke Energy Corporation Executive Savings Plan, dated as of January 1, 2014, (incorporated by reference to Exhibit 10.82 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2013, filed on February 28, 2014, File No. 1-32853).</u>		X

EXHIBITS

10.39.1	<u>Amendment to Duke Energy Corporation Executive Savings Plan, effective as of January 1, 2014 (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2017, filed on November 3, 2017, File No. 1-32853).</u>	X	
10.40	<u>Agreement between Duke Energy SAM, LLC, Duke Energy Ohio, Inc., Duke Energy Commercial Enterprise, Inc. and Dynegy Resource I, LLC, dated as of August 21, 2014, (incorporated by reference to Exhibit 10.61 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2014, filed on March 2, 2015, File No. 1-32853).</u>	X	X
10.41	<u>Asset Purchase Agreement between Duke Energy Progress, Inc. and North Carolina Eastern Municipal Power Agency, dated as of September 5, 2014, (incorporated by reference to Exhibit 10.62 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2014, filed on March 2, 2015, File No. 1-32853).</u>	X	X
10.42	<u>Change in Control Agreement between Duke Energy Corporation and Lloyd M. Yates, dated as of April 30, 2014, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on May 6, 2014, File No. 1-32853).</u>	X	
10.43	<u>Accelerated Stock Repurchase Program executed by Goldman, Sachs & Co., and JPMorgan Chase Bank, N.A. on April 6, 2015, under an agreement with Duke Energy Corporation (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on April 6, 2015, File No. 1-32853).</u>	X	
10.44	<u>Plea Agreement between Duke Energy Corporation and the Court of the Eastern District of North Carolina in connection with the May 14, 2015, Dan River Grand Jury Settlement (incorporated by reference to Exhibit 10.3 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2015, filed on August 7, 2015, File No. 1-32853).</u>	X	
10.45	<u>Plea Agreement between Duke Energy Corporation and the Court of the Eastern District of North Carolina in connection with the May 14, 2015, Dan River Grand Jury Settlement (incorporated by reference to Exhibit 10.4 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2015, filed on August 7, 2015, File No. 1-32853).</u>	X	
10.46	<u>Purchase and Sale Agreement by and among Duke Energy International Group S.à.r.l., Duke Energy International Brazil Holdings S.à.r.l. and China Three Gorges (Luxembourg) Energy S.à.r.l., dated as of October 10, 2016, (incorporated by reference to Exhibit 2.1 to registrant's Current Report on Form 8-K filed on October 13, 2016, File No. 1-32853).</u>	X	
10.47	<u>Purchase and Sale Agreement by and among Duke Energy Brazil Holdings II, C.V., Duke Energy International Uruguay Investments SRL, Duke Energy International Group S.à.r.l., Duke Energy International España Holdings SL, Duke Energy International Investments No. 2 Ltd., ISQ Enerlam Aggregator, L.P., and Enerlam (UK) Holdings Ltd., dated as of October 10, 2016, (incorporated by reference to Exhibit 2.2. to registrant's Current Report on Form 8-K filed on October 13, 2016, File No. 1-32853).</u>	X	

EXHIBITS

10.48**	<u>Amended and Restated Employment Agreement, dated May 25, 2012, between Piedmont Natural Gas Company, Inc. and Franklin H. Yoho (incorporated by reference to Exhibits 10.1 and 10.2 to Piedmont Natural Gas Company, Inc.'s Quarterly Report on Form 10-Q for the quarter ended July 31, 2012, filed on September 7, 2012, File No. 1-06196).</u>	X
10.49**	<u>Severance Agreements with Thomas E. Skains and Franklin H. Yoho, dated September 4, 2007, (incorporated by reference to Exhibits 10.2 and 10.2a to Piedmont Natural Gas Company, Inc.'s Quarterly Report on Form 10-Q for the quarter ended July 31, 2007, filed on September 7, 2007, File No. 1-06196).</u>	X
10.50**	<u>Piedmont Natural Gas Company, Inc. Incentive Compensation Plan (incorporated by reference to Exhibit 10.64 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).</u>	X
10.50.1**	<u>First Amendment to Piedmont Natural Gas Company, Inc. Incentive Compensation Plan (incorporated by reference to Exhibit 4.2 to registrant's Registration Statement on Form S-8 filed on October 3, 2016, File No. 1-32853).</u>	X
10.51**	<u>Waiver of Certain Rights to Terminate for Good Reason between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.66 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).</u>	X
10.52**	<u>Notice of Non-Renewal of Employment Agreement between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.67 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).</u>	X
10.53**	<u>Retention Award Agreement, dated as of October 24, 2015, between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.68 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).</u>	X
*10.54**	<u>Consulting Agreement, dated as of October 4, 2019, between Duke Energy Corporation and Franklin H. Yoho.</u>	X
10.55	<u>\$1,000,000,000 Credit Agreement, dated as of June 14, 2017, among Duke Energy Corporation, the lenders listed therein, The Bank of Nova Scotia, as Administrative Agent, PNC Bank, National Association, Sumitomo Mitsui Banking Corporation and TD Bank, N.A., as Co-Syndication Agents, and Bank of China, New York Branch, BNP Paribas, Santander Bank, N.A. and U.S. Bank National Association, as Co-Documentation Agents (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on June 14, 2017, File No. 1-32853).</u>	X
10.56	<u>\$1,000,000,000 Credit Agreement, dated as of May 15, 2019, among Duke Energy Corporation, the Lenders party thereto, The Bank of Nova Scotia, as Administrative Agent, PNC Bank, National Association, Sumitomo Mitsui Banking Corporation and TD Bank, N.A., as Co-Syndication Agents, and Bank of China, New York Branch, BNP Paribas, Santander Bank, N.A., and U.S. Bank, National Association, as Co-Documentation Agents (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on May 16, 2019, File No. 1-32853).</u>	X

EXHIBITS

10.57	<u>Note Purchase Agreement, dated as of May 6, 2011, among Piedmont Natural Gas Company, Inc. and the Purchasers party thereto (incorporated by reference to Exhibit 10 to registrant's Current Report on Form 8-K filed on May 12, 2011, File No. 1-06196).</u>		X
10.58	<u>Amended and Restated Limited Liability Company Agreement of Constitution Pipeline Company, LLC dated April 9, 2012, by and among Williams Partners Operating LLC and Cabot Pipeline Holdings LLC (incorporated by reference to Exhibit 10.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 2013, filed on March 6, 2013, File No. 1-06196).</u>		X
10.58.1	<u>First Amendment to Amended and Restated Limited Liability Company Agreement of Constitution Pipeline Company, LLC, dated as of November 9, 2012, by and among Constitution Pipeline Company, LLC, Williams Partners Operating LLC, Cabot Pipeline Holdings LLC, and Piedmont Constitution Pipeline Company, LLC (incorporated by reference to Exhibit 10.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 2013, filed on March 6, 2013, File No. 1-06196).</u>		X
10.58.2	<u>Second Amendment to Amended and Restated Limited Liability Company Agreement of Constitution Pipeline Company, LLC, dated as of May 29, 2013, by and among Constitution Pipeline Company, LLC, Williams Partners Operating LLC, Cabot Pipeline Holdings LLC, Piedmont Constitution Pipeline Company, LLC, and Capitol Energy Ventures Corp. (incorporated by reference to Exhibit 99.1 to registrant's Current Report on Form 8-K filed on September 4, 2013, File No. 1-06196).</u>		X
10.59	<u>Second Amended and Restated Limited Liability Company Agreement of SouthStar Energy Services LLC, dated as of September 1, 2013, by and between Georgia Natural Gas Company and Piedmont Energy Company (incorporated by reference to Exhibit 10.39 to registrant's Annual Report on Form 10-K for the year ended October 31, 2013, filed on December 23, 2013, File No. 1-06196).</u>		X
10.60	<u>Limited Liability Company Agreement of Atlantic Coast Pipeline, LLC, dated as of September 2, 2014, by and between Dominion Atlantic Coast Pipeline, LLC, Duke Energy ACP, LLC, Piedmont ACP Company, LLC, and Maple Enterprise Holdings, Inc. (incorporated by reference to Exhibit 10.35 to registrant's Annual Report on Form 10-K for the year ended October 31, 2014, filed on December 23, 2014, File No. 1-06196).</u>		X
10.61	<u>Engineering, Procurement and Construction Agreement between Duke Energy Business Services, LLC, as agent for and on behalf of Piedmont Natural Gas Company Inc. and Matrix Service, Inc., dated as of April 30, 2019 (incorporated by reference to Exhibit 10.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2019, filed on August 6, 2019, File No. 1-06196). (Portions of the exhibit have been omitted for confidentiality.)</u>		X
10.62	<u>Decommissioning Services Agreement between Duke Energy Florida, LLC, and ADP CR3, LLC, and ADP SF1, LLC (incorporated by reference to Exhibit 10.3 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2019, Filed on August 6, 2019, File No. 2-5293). (Portions of the exhibit have been omitted for confidentiality.)</u>		X
10.63	<u>Form of Forward Sale Agreement (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on November 8, 2019, File No. 1-32853).</u>	X	
*10.64	<u>Lease Agreement dated as of December 23, 2019, between the registrant and CGA 525 South Tryon TIC 1, LLC, a Delaware limited liability company, CGA 525 South Tryon TIC 2, LLC, a Delaware limited liability company, and CK 525 South Tryon TIC, LLC, a Delaware limited liability company.</u>		X

EXHIBITS

*10.65	Construction Agency Agreement dated as of December 23, 2019, between the registrant and CGA 525 South Tryon TIC 1, LLC, a Delaware limited liability company, CGA 525 South Tryon TIC 2, LLC, a Delaware limited liability company, and CK 525 South Tryon TIC, LLC, a Delaware limited liability company.	X							
*21	List of Subsidiaries	X							
*23.1.1	Consent of Independent Registered Public Accounting Firm.	X							
*23.1.2	Consent of Independent Registered Public Accounting Firm.		X						
*23.1.3	Consent of Independent Registered Public Accounting Firm.				X				
*23.1.4	Consent of Independent Registered Public Accounting Firm.					X			
*23.1.5	Consent of Independent Registered Public Accounting Firm.						X		
*23.1.6	Consent of Independent Registered Public Accounting Firm.							X	
*23.1.7	Consent of Independent Registered Public Accounting Firm.								X
*24.1	Power of attorney authorizing Lynn J. Good and others to sign the Annual Report on behalf of the registrant and certain of its directors and officers.	X							
*24.2	Certified copy of resolution of the Board of Directors of the registrant authorizing power of attorney.	X							
*31.1.1	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	X							
*31.1.2	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.		X						
*31.1.3	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X				
*31.1.4	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.					X			
*31.1.5	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.						X		
*31.1.6	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.							X	
*31.1.7	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.								X
*31.1.8	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.								X
*31.2.1	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	X							
*31.2.2	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.		X						
*31.2.3	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X				

Piedmont Natural Gas Company, Inc.
Docket No. G-9, Sub 781
G-1, Item 30
Attachment 4 of 16

EXHIBITS

*32.2.8	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.								X
*101.INS	XBRL Instance Document (this does not appear in the Interactive Data File because it's XBRL tags are embedded within the Inline XBRL document).	X	X	X	X	X	X	X	X
*101.SCH	XBRL Taxonomy Extension Schema Document	X	X	X	X	X	X	X	X
*101.CAL	XBRL Taxonomy Calculation Linkbase Document	X	X	X	X	X	X	X	X
*101.LAB	XBRL Taxonomy Label Linkbase Document	X	X	X	X	X	X	X	X
*101.PRE	XBRL Taxonomy Presentation Linkbase Document	X	X	X	X	X	X	X	X
*101.DEF	XBRL Taxonomy Definition Linkbase Document	X	X	X	X	X	X	X	X

The total amount of securities of each respective registrant or its subsidiaries authorized under any instrument with respect to long-term debt not filed as an exhibit does not exceed 10% of the total assets of such registrant and its subsidiaries on a consolidated basis. Each registrant agrees, upon request of the SEC, to furnish copies of any or all of such instruments to it.

--/A

SIGNATURES

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrants have duly caused this report to be signed on their behalf by the undersigned, thereunto duly authorized.

Date: February 20, 2020

DUKE ENERGY
CORPORATION
(Registrant)

By:

/s/ LYNN J. GOOD

Lynn J. Good
Chairman, President and Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chairman, President and Chief Executive Officer (Principal Executive Officer and Director)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
- | | |
|--------------------------|--------------------------|
| Michael G. Browning* | William E. Kennard* |
| Annette K. Clayton* | E. Marie McKee* |
| Theodore F. Craver, Jr.* | Charles W. Moorman IV* |
| Robert M. Davis* | Marya M. Rose* |
| Daniel R. DiMicco* | Carlos A. Saladrigas* |
| Nicholas C. Fanandakis* | Thomas E. Skains* |
| Lynn J. Good* | William E. Webster, Jr.* |
| John T. Herron* | |

Steven K. Young, by signing his name hereto, does hereby sign this document on behalf of the registrant and on behalf of each of the above-named persons previously indicated by asterisk (*) pursuant to a power of attorney duly executed by the registrant and such persons, filed with the Securities and Exchange Commission as an exhibit hereto.

By:

/s/ STEVEN K. YOUNG

Attorney-In-Fact

Date: February 20, 2020

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--/A

SIGNATURES

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 20, 2020

DUKE ENERGY
CAROLINAS, LLC
(Registrant)

By:

/s/ LYNN J. GOOD

Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ LYNN J. GOOD
Lynn J. Good
 - /s/ DHIAA M. JAMIL
Dhiaa M. Jamil
 - /s/ JULIA S. JANSON
Julia S. Janson

Date: February 20, 2020

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--/A

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SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 20, 2020

PROGRESS ENERGY, INC.
(Registrant)

By:

/s/ LYNN J. GOOD

Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

(i) /s/ LYNN J. GOOD

Lynn J. Good

Chief Executive Officer (Principal Executive Officer)

(ii) /s/ STEVEN K. YOUNG

Steven K. Young

Executive Vice President and Chief Financial Officer (Principal Financial Officer)

(iii) /s/ DWIGHT L. JACOBS

Dwight L. Jacobs

Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)

(iv) Directors:

/s/ KODWO GHARTEY-TAGOE

Kodwo Ghartey-Tagoe

/s/ LYNN J. GOOD

Lynn J. Good

Date: February 20, 2020

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Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 20, 2020

DUKE ENERGY
PROGRESS, LLC
(Registrant)

By:

/s/ LYNN J. GOOD

Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
- /s/ DOUGLAS F ESAMANN
Douglas F Esamann
- /s/ KODWO GHARTEY-TAGOE
Kodwo Gharthey-Tagoe
- /s/ LYNN J. GOOD
Lynn J. Good
- /s/ DHIAA M. JAMIL
Dhiaa M. Jamil
- /s/ JULIA S. JANSON
Julia S. Janson

Date: February 20, 2020

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Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 20, 2020

DUKE ENERGY FLORIDA,
LLC
(Registrant)

By:

/s/ LYNN J. GOOD

Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
- /s/ DOUGLAS F ESAMANN
Douglas F Esamann
- /s/ KODWO GHARTEY-TAGOE
Kodwo Gharthey-Tagoe
- /s/ LYNN J. GOOD
Lynn J. Good
- /s/ DHIAA M. JAMIL
Dhiaa M. Jamil
- /s/ JULIA S. JANSON
Julia S. Janson

Date: February 20, 2020

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Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 20, 2020

DUKE ENERGY OHIO, INC.
(Registrant)

By:

/s/ LYNN J. GOOD

Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
- /s/ DOUGLAS F ESAMANN
Douglas F Esamann
- /s/ LYNN J. GOOD
Lynn J. Good
- /s/ DHIAA M. JAMIL
Dhiala M. Jamil

Date: February 20, 2020

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Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 20, 2020

DUKE ENERGY INDIANA,
LLC
(Registrant)

By:

/s/ LYNN J. GOOD

Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ DOUGLAS F ESAMANN
Douglas F Esamann
 - /s/ KELLEY A. KARN
Kelley A. Karn
 - /s/ STAN PINEGAR
Stan Pinegar

Date: February 20, 2020

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SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 20, 2020

PIEDMONT NATURAL GAS
COMPANY, INC.
(Registrant)

By:

/s/ LYNN J. GOOD

Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ DOUGLAS F ESAMANN
Douglas F Esamann
 - /s/ LYNN J. GOOD
Lynn J. Good
 - /s/ DHIAA M. JAMIL
Dhiaa M. Jamil

Date: February 20, 2020

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**2019 ANNUAL REPORT
AND FORM 10-K**

Ready for what's



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“ ”

*WE'RE WRITING THE NEXT CHAPTER IN OUR
COMPANY'S 116-YEAR HISTORY – AND I'M CONFIDENT
THE STORY WILL BE ONE OF THE BEST YET.*



Lynn J. Good

*Chair, President and
Chief Executive Officer*



LYNN J. GOOD

*Chair, President and
Chief Executive Officer*

Ready for what's NEXT

Dear Shareholder:

Today, the speed and depth of transformation in our industry are inspiring. In this environment, our ability to develop new solutions provides great opportunities to bring more value to our customers and the communities we serve.

While the pace can feel unrelenting at times – not only for us, but for those we serve – we're embracing this shift with conviction and optimism as we reimagine our business.

In 2019, we met our financial targets through our focus on execution, made important progress on our long-term strategy and demonstrated agility in how we operate. We also announced our new, bold vision for net-zero carbon emissions by 2050 – built on a diverse mix of resources, including carbon-free nuclear and the expansion of our natural gas and renewables portfolios.

Since our founding, Duke Energy has maintained a proud legacy of meeting the changing needs of our customers and communities. So as we – the 29,000 employees of Duke Energy – work together to write the next chapter in our history, I'm confident in our ability to deliver the right results. 2019 is clear proof that Duke Energy is stronger and better prepared to shape our future.



Delivering Results the Right Way

Consistent financial results earn the trust of our investors – and in 2019, we delivered on our commitments.

Our adjusted earnings per share (EPS) were \$5.06 for the year – above the midpoint of our original guidance range. Strong growth in our electric, natural gas and commercial renewables businesses remained the financial engine for our company. Our cost discipline and flexibility supported our strategy as we focused on long-term growth. And 2020 will be the 94th consecutive year we will pay quarterly

cash dividends on our common stock, which we increased by 2 percent in 2019.

However, uncertainty in the regulatory environment in the Carolinas and the impact of the permitting and litigation delays for the Atlantic Coast Pipeline (ACP) weighed on our stock in 2019. Our total shareholder return of 10.3 percent underperformed both the Philadelphia Utility Index and the average for our regulated peers.

In response, we took aggressive actions.



This February, we announced our new 2020 adjusted EPS target of \$5.25 and guidance range of \$5.05 to \$5.45. It solidifies and extends our commitment to deliver a long-term growth rate at 4 to 6 percent through 2024.

In the Carolinas, we reached a settlement with the North Carolina Department of Environmental Quality and several community groups on a plan to permanently close ash basins in the state. The settlement lowers the previously estimated closure costs by approximately \$1.5 billion, resolves environmental litigation, and ensures that people, communities and the environment are well-protected.

With respect to ACP, we continued to advance this project despite legal challenges that halted major construction. The U.S. solicitor general, along with 18 state attorneys general and other stakeholders, joined our appeal to the U.S. Supreme Court on the project's ability to cross the Appalachian Trail. The Supreme Court heard oral arguments this past February and is expected to issue its ruling in second quarter of 2020. We believe the law and facts remain on our side as we move toward a final resolution to restart construction later in the year.

We also took steps to strengthen our balance sheet – which is vital to financing our growth strategy while providing flexibility to maintain our credit profile. In November, we priced \$2.5 billion in incremental common equity that will settle in December 2020. We also issued \$2 billion in preferred stock in 2019.

In addition, we closed our minority stake sale of our Commercial Renewables portfolio to John Hancock and issued additional green bonds in North Carolina and Florida – bringing our total clean energy offerings to \$2.3 billion since 2018.

Importantly, ratings agencies acknowledged our efforts. In November, S&P resolved its negative outlook following the \$2.5 billion common equity offering.

This February, we announced our new 2020 adjusted EPS target of \$5.25 and guidance range of \$5.05 to \$5.45. It solidifies and extends our commitment to deliver a long-term growth rate at 4 to 6 percent through 2024. And because of growing demand for infrastructure investments, we increased our capital plan by 12 percent to \$56 billion – with more than 90 percent to be spent in our regulated electric and gas businesses, driving strong earnings base growth.

Our results in 2019 show that the foundation of our business is strong. With important legal and regulatory decisions approaching in 2020, we are committed to producing outstanding operating results for our customers and investors while delivering growth in earnings and dividends in a low-risk, predictable and transparent way. That's our promise to you.



Executing Our Strategy

Our industry is in a period of transformation, and our strategy will continue to guide how we invest to meet the changing needs of our customers and communities while maintaining flexibility and creating shareholder value. Our commitment to deliver outstanding customer service and value by investing in our grid, cleaner energy and natural gas infrastructure is moving us forward.

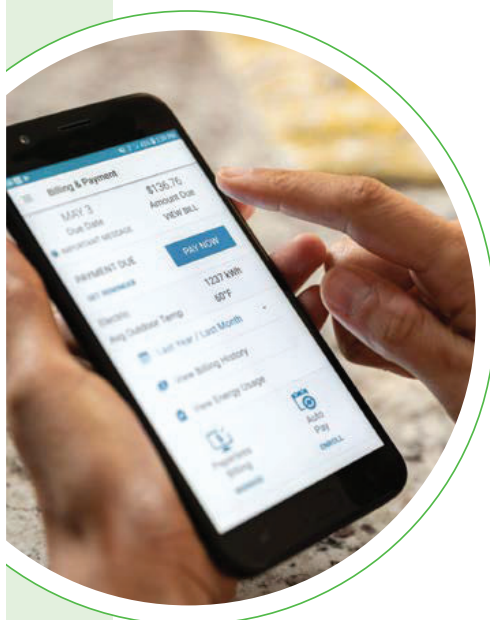
Transforming the Customer Experience

Our strategy begins and ends with the customer. This past year, we continued to direct our

investments to meet the needs of our customers, striving to provide the personalized service they expect today.

We improved how we communicate with customers on their terms, including proactive payment confirmation, energy usage alerts, and timely safety and outage information during storms. In addition, we launched an interactive outage map. Now, customers can get updates in real time and better understand restoration efforts.

We made it easier for customers to access their payment history and usage data, and pay their bill



We saw improvement across almost all our territories as measured by J.D. Power's Customer Service Index for residential service customers. We also earned a 25 percent increase on our internal customer satisfaction metrics.

online – including the launch of our new mobile app. And we made progress upgrading our customer information system. This platform, called Customer Connect, will give us the ability to provide enhanced communications and solutions. This includes an improved bill format for customers in the first half of 2020. Customer Connect remains on track to be fully implemented by 2022.

Yet, we are not relying solely on technology to create better relationships. We look for every opportunity to engage face to face with customers through community events, town halls and pop-up office locations. In addition, our employees review customer feedback each month to identify improvement opportunities and develop local plans for our communities.

Our focus on customers shows in our customer satisfaction metrics. In 2019, we saw improvement across almost all our territories as measured by J.D. Power's Customer Service Index for residential service customers. We also earned a 25 percent increase on our internal customer satisfaction metrics.

In 2020 and beyond, we'll build on this progress as we work to delight customers, deepening our relationships and giving them a best-in-class experience.

Generating Cleaner Energy

Around the world, countries, companies and communities are adding their voice to the conversation on how to achieve a lower-carbon future.

I'm proud to say we have long been an important contributor to that discussion. Since 2005, we have reduced our carbon emissions 39 percent, which exceeds the goals of the former Clean Power Plan and the 2025 U.S. commitment to the Paris Agreement.

Over the past year, we took that commitment even further.

In 2019, we refreshed our climate strategy and accelerated our goals as we now plan to reduce our carbon emissions from electricity generation by at least 50 percent from 2005 levels by 2030 and to achieve net-zero emissions by 2050.

It will take a thoughtful, disciplined approach to attain these ambitious goals. We need a diverse set of resources – including increased investments in renewables, storage, natural gas and energy efficiency, in addition to the retirement of coal plants – to achieve our 2030 goal.

To reach our 2050 target, we are advocates for investments in research and development and new technologies – such as enhanced storage, carbon capture, advanced nuclear and new, carbon-free solutions that don't exist yet at scale.

And we cannot overstate the importance of nuclear. In the Carolinas, our nuclear plants account for nearly half of our generation. Currently, we're pursuing subsequent license renewal for our entire nuclear fleet. This will enable us to operate our plants for an additional 20 years.



We recognize the importance of accelerating the path to net-zero carbon emissions and look forward to working with stakeholders in each of our states to turn these goals into reality.

As we do, our current investments to generate cleaner energy align with our goal for 2030 and beyond.

We achieved substantial completion of our 560-megawatt Asheville combined-cycle natural gas plant and retired two coal-fired units at the site – all part of our Western Carolinas Modernization project. The Asheville plant is our third combined-cycle plant to come online in the past two years. Natural gas plays an important role in lowering our carbon emissions and effectively integrating renewable energy resources.

Renewables remain a critical part of our strategy. We added more than 2,500 megawatts of solar capacity to our grid over the past four years, including significant growth in North Carolina that helped keep the state second in the nation for solar capacity.

In 2019, we were awarded approximately 190 megawatts of utility-scale solar under North Carolina House Bill 589. Most of the projects will come online by mid-2021. The number of customers who installed or received a rebate under our \$62 million, multiyear rebate program in North Carolina increased by nearly 1,700 – bringing the total to 3,600 rebates. We also launched our Green Source Advantage program, helping large customers meet their sustainability goals.

In Florida, our Lake Placid and Trenton solar power plants came online, bringing nearly 120 megawatts to customers. In addition, we announced other solar and battery projects, continuing our progress to add 700 megawatts of solar generation through 2022 while projecting to more than double our solar investments in the state by 2028.

Our Commercial Renewables business continues to grow as we announced approximately 1,500 megawatts in new projects, which will be placed into service by the end of 2020. This included our largest solar facility to date, the 150-megawatt North Rosamond solar project in California, which began operation in June. As well, our 200-megawatt Mesteño Windpower project in Texas began commercial operations in December, producing enough energy to power about 60,000 average homes.

We have been on a successful mission for more than a decade to lower our carbon emissions. For the 14th consecutive year, our company was included in the Dow Jones Sustainability Index, and in 2020, we plan to release our second climate report. Our work in 2019 continues our momentum to ensure a cleaner energy future for those we have the privilege to serve.

Modernizing the Power Grid

With more than 300,000 line miles, our transmission and distribution network is the largest in the nation. It connects



We prevented more than 610,000 extended power outages and saved customers approximately 62 million outage minutes.

commerce and communities to affordable, reliable and increasingly clean power. With the rising demand for new technologies, services and capabilities, we continued to modernize our grid to enhance resiliency and support the future needs of our customers.

Smart meters remain a critical link to give customers more access to information that helps them save energy and money. This past year, we installed more than 2 million smart meters, with more than 80 percent of our customers currently having the benefit of this technology. We completed deployments in Indiana and the western Carolinas and made significant progress in the eastern Carolinas and Florida. We are on track to be fully deployed in all our jurisdictions by year-end 2021.

We expanded our self-optimizing grid capabilities – allowing the grid to automatically detect outages and reroute power to restore customers faster. As a result, in 2019 we prevented more than 610,000 extended power outages and saved customers approximately 62 million outage minutes.

Electrification is an important part of our strategy and contributor to a lower-carbon future. We are investing in this infrastructure to spur electric vehicle (EV) adoption. In Florida, we're installing 530 EV charging stations, and in North Carolina, we've proposed a pilot that would support the installation of 2,000 EV chargers. Across our service territories, we plan to support the deployment of nearly 7,500

EV chargers including residential, fleet, public transit and highway fast charging.

The security of our grid remains paramount. In 2019, we continued to upgrade equipment and install protective devices to meet higher standards and increase protection against physical and cyber security threats. This work also helps to enable new technologies and support renewable solutions. We continued our targeted undergrounding effort, identifying the most outage-prone power lines on our system and moving those lines underground.

Evolving customer expectations demand a modernized grid, and our investments are designed to meet their changing needs in 2020 and beyond.

Expanding Natural Gas Infrastructure

Natural gas remains central to our transition to a lower-carbon future. But delivering the benefits to customers will take an extensive, resilient natural gas transmission and distribution network. That's why we're making significant investments in this critical infrastructure.

To help Piedmont Natural Gas better serve its growing customer base, we are moving ahead with several projects, including the construction of our \$300 million Robeson liquid natural gas (LNG) facility in North Carolina. This will provide natural gas during peak usage days, protecting customers against price spikes and volatility.



In the Midwest, we received approval from the Ohio Power Siting Board to construct the 14-mile Ohio Central Corridor Pipeline project. This is the result of a multiyear stakeholder process and is a milestone for Cincinnati and the region as we invest in critical infrastructure improvements to better serve customers. We will begin construction in late 2020.

In addition, we continue pursuing innovative technologies, such as renewable natural gas and compressed natural gas initiatives. We've also invested \$300 million in pipeline integrity projects, demonstrating leadership in emissions reductions and safety improvements.

As I discussed earlier, the ACP project is a necessary infrastructure investment, bringing low-cost natural gas to eastern North Carolina. In addition to the appeal to the U.S. Supreme Court, we continue to work diligently with the U.S. Fish and Wildlife Service on the Biological Opinion and Incidental Take Statement – two of the project's federal permits held up by the Fourth Circuit. We expect the permits to be reissued by midyear. Taking these timelines into account, we are planning for mechanical completion of the project in late 2021, with full in-service in the first half of 2022.

We remain committed to this project and the benefits the expansion of natural gas infrastructure brings to our customers and the Carolinas region.

Engaging Stakeholders

To deliver results for our customers, we need constructive regulatory policy, which requires collaboration and strong stakeholder support.

We made progress in 2019 as we brought people together – through forums, local advisory councils and one-on-one meetings – to find public policy solutions that allow us to better serve customers and build the cleaner energy future they deserve. We continually seek common ground and continue to approach these conversations with an open mind.

You can see the results of our engagement across our service areas.

In North Carolina, the passage of Senate Bill (SB) 559 enables the North Carolina Utilities Commission (NCUC) to approve storm cost securitization, allowing utilities to issue bonds to finance storm recovery. This tool could save customers on storm costs and support our balance sheet. While we were disappointed the bill did not include proposed regulatory reforms, we're encouraged they will be a part of the broader dialogue in the state's Clean Energy Plan stakeholder process in 2020.

Florida SB 796 also passed last year, authorizing grid resiliency investments to protect against extreme weather events. The bill provides timely rider recovery, and we plan to file our first storm protection plan in 2020.



We established an Innovation Center at Optimist Hall in Charlotte. We have nearly 400 people at this facility dedicated to developing new products and services. In less than a year, the team has more than 20 applications in the field, supporting our customers and enabling our workforce.

In 2019, we filed several rate cases. Piedmont Natural Gas submitted its first base rate case in North Carolina since 2013. In October, the NCUC approved our settlement with the Public Staff and industry groups, maintaining timely cost recovery mechanisms and demonstrating constructive regulatory environments.

In North Carolina, both our electric utilities are seeking recovery for investments in cleaner generation and improvements to our infrastructure. And in Indiana, we filed our first rate case in 16 years for investments to support that state's growing customer base.

The right outcomes come from collaboration, and we'll continue to engage stakeholders to meet our customers' energy needs.

Turning Change into Opportunity

Our strategy of providing outstanding service that our customers value rests on a foundation of operational

excellence, stakeholder engagement and business transformation.

In 2018, we launched our Lighthouse initiative – an enterprisewide program to find new ways to use digital capabilities and transform how we operate our business while delivering cost savings for customers. In early 2019, we established an Innovation Center at Optimist Hall in Charlotte. We have nearly 400 people at this facility dedicated to developing new products and services. In less than a year, the team has more than 20 applications in the field, supporting our customers and enabling our workforce.

Early results like these are very encouraging. The desire to reap the benefits of changing how we work is being embraced by people throughout our business, from frontline supervisors to senior leadership. I look forward to reporting on our progress in the years ahead as we continue transforming how we operate our business and serve our customers.

Results Built on Operational Excellence

Our commitment to operational excellence remains foundational to our success.

This focus always starts with safety – of our assets, our people, our communities and the environment. Once again, our employees delivered industry-leading results in 2019. We reduced the number of injuries and environmental events last year – and remain focused on making improvements that move us toward event-free operations.

Building on our success, our generation fleet produced another solid year. Our nuclear fleet –

the largest regulated fleet in the United States – continued providing safe, reliable and carbon-free power to our customers in the Carolinas. The fleet's capacity factor was 95.3 percent in 2019 – the 21st consecutive year our fleet's capacity factor was above 90 percent.

Our Edwardsport integrated gasification combined-cycle facility set records for generation and gasifier availability. We also made progress on dual-fuel projects at our Belews Creek and Marshall steam plants, which will allow the plants to use either natural gas or coal.



Our electric distribution system performed well – with grid reliability metrics improving 15 percent year over year.

And our electric distribution system performed well in 2019 – with grid reliability metrics improving 15 percent year over year.

We also continued our legacy of delivering for customers when they needed us most. The 2019 Atlantic hurricane season was the fourth consecutive year that we have seen above-average storm activity. In response to Hurricane Dorian – a Category 5 storm with an unpredictable path – we mobilized nearly 8,000 resources in Florida and more than 10,000 resources in the Carolinas as we braced for the storm. While we avoided the worst of Dorian, it still caused nearly 300,000 outages in our service territories.

Our team's preparation enabled us to restore more than 95 percent of the outages within 24 hours.

Our ability to effectively manage all facets of storm response is a testament to our team's extensive preparation, coordination and on-the-ground leadership. Notably in 2019, Duke Energy earned EEL's Emergency Recovery Award for our power restoration efforts after Winter Storm Diego hit in December 2018. This recognition was our 22nd EEL award since 1998.

Duke Energy has a tradition of safe, reliable operations, and 2019 proved that our focus on operational excellence remains strong.



Supporting Our Communities

The health of our company is intrinsically linked to the communities we serve, and it is imperative that we give back – creating jobs, fostering innovation and providing support.

Economic development is one of the ways we do that – recruiting new companies to invest and create jobs in collaboration with state and local economic development agencies. In 2019, Duke Energy helped attract \$7.1 billion in capital investment and create over 15,000 jobs. And I'm proud to say that for the 15th consecutive year, we were named to

Site Selection magazine's annual list of "Top Utilities in Economic Development."

Duke Energy employees remain ambassadors for our company and continue our proud tradition of giving. In 2019, our employees and retirees volunteered over 136,000 hours. They also pledged more than \$5.2 million to 4,400 organizations through the Power of Giving. Now in its second year, this campaign gives our employees a powerful platform to contribute to the nonprofit of their choice and receive a company match from the Duke Energy



Our Foundation remained active in supporting causes and organizations across our service territories, donating more than \$30 million.

Foundation. With the Foundation match, our employees invested nearly \$10 million into our communities.

In addition, our Foundation remained active in supporting causes and organizations across our service territories, donating more than \$30 million in 2019.

We provided funding to help communities in Florida prepare for future weather events and to equip Ohio students with the skills needed for careers in the energy sector. In Indiana and North Carolina, we provided grant funding to help the fight against the opioid epidemic. And we're working with local organizations on affordable housing and access to medical care in the Carolinas.

It is important for us to help address the needs of the communities where our customers and employees live and work.

Our success in supporting our communities requires a more agile

and diverse workforce. This past year, we continued our efforts to attract employees who embody these tenets. We also invested in education and workforce development programs – including reskilling, upskilling and redeployment of existing workers – to build a pipeline of skilled workers to meet our evolving business needs.

Duke Energy is not alone in feeling the impact of change. Our communities are feeling the same effects – from a changing economy to workforce demands – and we stand ready to support them.

Our journey continues but I'm proud of our progress. We were once again listed by Forbes as one of America's Best Employers and as one of Fortune's Most Admired Companies, now for the third consecutive year. In addition, we earned top marks in the 2020 Corporate Equality Index – highlighting our focus on diversity and inclusion.



Ready for What's Next

As we look ahead to the energy landscape of the future, it's clear that markets and technologies will continue to change. Laws and regulations will evolve. And the expectations of our customers and communities will only increase in the years ahead.

We are confident in our ability to shape that future because we have adapted and changed for more than a century.

Every era has its challenges and, once again, our workforce continues to rise to the occasion. In 2019, we made significant progress executing our strategy and transforming our business. Our employees' dedication to our customers and continuous improvement is what produced the results we are so proud of as a company.

As we look to the next decade, our focus remains on execution – because that is what will distinguish us over the long term. The strategy is clear: We're transforming for our customers and investing in cleaner energy, the grid and the natural gas infrastructure needed to bring more value to them. We're adapting our business, becoming more efficient, more competitive and better prepared to meet tomorrow's energy needs.

To our shareholders, thank you for your continued investment in Duke Energy. We're writing the next chapter in our company's 116-year history – and I'm confident the story will be one of the best yet.

Lynn J. Good
Chair, President and Chief Executive Officer

Our Financial Highlights^a

(In millions, except per share amounts)

Operating Results

	2019	2018	2017
Total operating revenues	\$25,079	\$24,521	\$23,565
Income from continuing operations	\$3,578	\$2,625	\$3,070
Net income	\$3,571	\$2,644	\$3,064
Net income available to Duke Energy Corporation common stockholders	\$3,707	\$2,666	\$3,059

Cash Flow Data^b

Net cash provided by operating activities	\$8,209	\$7,186	\$6,624
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Common Stock Data

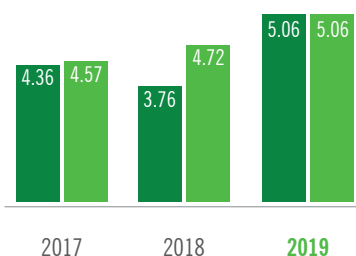
Shares of common stock outstanding			
Year-end	733	727	700
Weighted average – basic and diluted	729	708	700
Reported basic and diluted earnings per share (GAAP)	\$5.06	\$3.76	\$4.36
Adjusted basic and diluted earnings per share (non-GAAP)	\$5.06	\$4.72	\$4.57
Dividends declared per share	\$3.75	\$3.64	\$3.49
Dividends declared on Series A preferred stock per depositary share	\$1.03	—	—

Balance Sheet Data

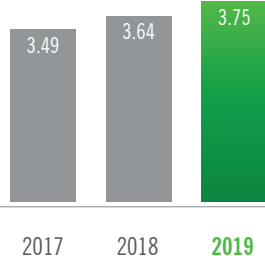
Total assets	\$158,838	\$145,392	\$137,914
Long-term debt including capital leases, less current maturities	\$54,985	\$51,123	\$49,035
Total Duke Energy Corporation stockholders' equity	\$46,822	\$43,817	\$41,739

Earnings per share

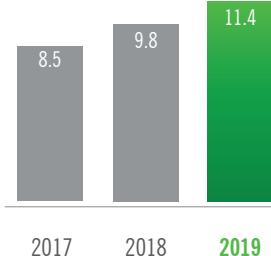
(in dollars) ■ Reported Diluted ■ Adjusted Diluted



Dividends declared per share (in dollars)



Capital and investment expenditures (dollars in billions)



^aSignificant transactions reflected in the results above include: (i) growth in Commercial Renewables from new tax equity solar projects placed in service in 2019 (see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies") and (ii) regulatory and legislative charges related to Duke Energy Progress and Duke Energy Carolinas North Carolina rate case orders and impairment charges in 2018 (see Notes 4, 12 and 13 to the Consolidated Financial Statements, "Regulatory Matters," "Goodwill and Intangible Assets" and "Investments in Unconsolidated Affiliates").

^bThe 2017 cash flow data has been recast to reflect the impact of adopting a new accounting standard effective January 1, 2018.

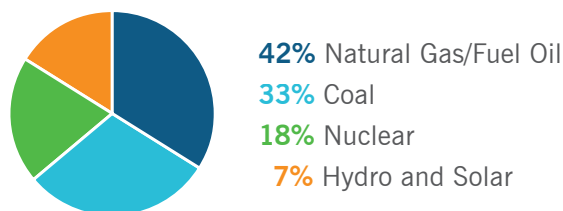
Duke Energy at a Glance

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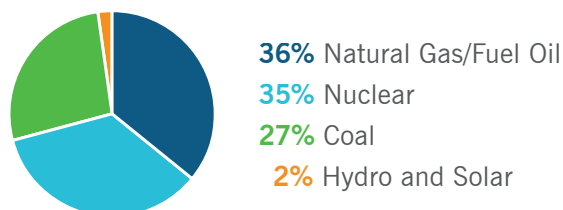
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Electric Utilities and Infrastructure

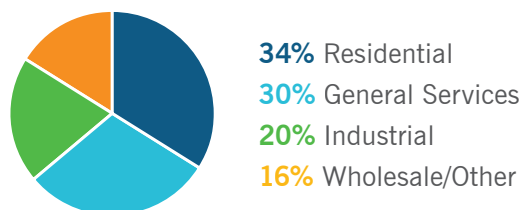
Generation Diversity (percent owned capacity)¹



Generated (net output gigawatt-hours (GWh))²



Customer Diversity (in billed GWh sales)²



Electric Utilities and Infrastructure conducts operations primarily through the regulated public utilities of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida, Duke Energy Indiana and Duke Energy Ohio.

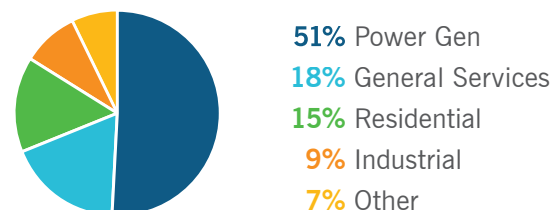
Electric Operations

- Owns approximately 51,144 megawatts (MW) of generating capacity
- Service area covers about 91,459 square miles with an estimated population of 25 million
- Service to approximately 7.8 million residential, commercial and industrial customers
- 280,024 miles of distribution lines and a 31,312-mile transmission system

Natural Gas Customer Diversity

Gas Utilities and Infrastructure conducts natural gas distribution operations primarily through the regulated public utilities of Piedmont Natural Gas and Duke Energy Ohio.

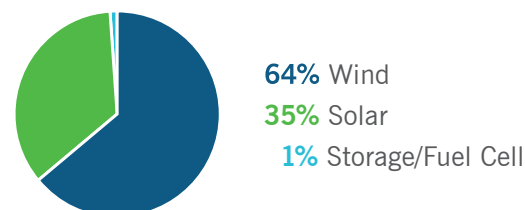
Natural Gas Operations (throughput)²



- Regulated natural gas transmission and distribution services to approximately 1.6 million customers in the Carolinas, Tennessee, southwestern Ohio and Northern Kentucky
- Maintains more than 33,700 miles of natural gas transmission and distribution pipelines and 27,200 miles of natural gas service pipelines

Commercial Renewables

Generation Diversity (percent owned capacity)^{1,3}



Commercial Renewables primarily acquires, develops, builds and operates wind and solar renewable generation throughout the continental U.S. The portfolio includes nonregulated renewable energy and energy storage businesses.

Commercial Renewables' renewable energy includes utility-scale wind and solar generation assets, distributed solar generation assets, distributed fuel cell assets and a battery storage project, which total 2,282 MW across 19 states from 22 wind facilities, 126 solar projects, 11 fuel cell locations and one battery storage facility. The power produced from renewable generation is primarily sold through long-term contracts to utilities, electric cooperatives, municipalities and corporate customers.

As part of its growth strategy, Commercial Renewables has expanded its investment portfolio through the addition of distributed solar companies and projects, energy storage systems and energy management solutions specifically tailored to commercial businesses.

¹ As of December 31, 2019. | ² For the year ended December 31, 2019.

³ Contains projects included in tax equity structures where investors have differing interests in the projects' economic attributes (100 percent of the tax equity projects' capacity is included).

DUKE ENERGY CORPORATION

2019 **Form 10-K**

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UNITED STATES SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

FORM 10-K

(Mark One)

☒

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal period ended December 31, 2019 or

☐

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____ to _____

Commission file number	Registrant, State of Incorporation or Organization, Address of Principal Executive Offices and Telephone Number	IRS Employer Identification No.
---------------------------	--	------------------------------------



1-32853	DUKE ENERGY CORPORATION (a Delaware corporation) 550 South Tryon Street Charlotte, North Carolina 28202-1803 704-382-3853	20-2777218
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Commission file number	Registrant, State of Incorporation or Organization, Address of Principal Executive Offices, Telephone Number and IRS Employer Identification Number	Commission file number	Registrant, State of Incorporation or Organization, Address of Principal Executive Offices, Telephone Number and IRS Employer Identification Number
1-4928	DUKE ENERGY CAROLINAS, LLC (a North Carolina limited liability company) 526 South Church Street Charlotte, North Carolina 28202-1803 704-382-3853 56-0205520	1-1232	DUKE ENERGY OHIO, INC. (an Ohio corporation) 139 East Fourth Street Cincinnati, Ohio 45202 704-382-3853 31-0240030
1-15929	PROGRESS ENERGY, INC. (a North Carolina corporation) 410 South Wilmington Street Raleigh, North Carolina 27601-1748 704-382-3853 56-2155481	1-3543	DUKE ENERGY INDIANA, LLC (an Indiana limited liability company) 1000 East Main Street Plainfield, Indiana 46168 704-382-3853 35-0594457
1-3382	DUKE ENERGY PROGRESS, LLC (a North Carolina limited liability company) 410 South Wilmington Street Raleigh, North Carolina 27601-1748 704-382-3853 56-0165465	1-6196	PIEDMONT NATURAL GAS COMPANY, INC. (a North Carolina corporation) 4720 Piedmont Row Drive Charlotte, North Carolina 28210 704-364-3120 56-0556998
1-3274	DUKE ENERGY FLORIDA, LLC (a Florida limited liability company) 299 First Avenue North St. Petersburg, Florida 33701 704-382-3853 59-0247770		

SECURITIES REGISTERED PURSUANT TO SECTION 12(b) OF THE ACT:

Registrant	Title of each class	Trading symbols	Name of each exchange on which registered
Duke Energy Corporation (Duke Energy)	Common Stock, \$0.001 par value	DUK	New York Stock Exchange LLC
Duke Energy	5.125% Junior Subordinated Debentures due January 15, 2073	DUKH	New York Stock Exchange LLC
Duke Energy	5.625% Junior Subordinated Debentures due September 15, 2078	DUKB	New York Stock Exchange LLC
Duke Energy	Depository Shares, each representing a 1/1,000th interest in a share of 5.75% Series A Cumulative Redeemable Perpetual Preferred Stock, par value \$0.001 per share	DUK PR A	New York Stock Exchange LLC

SECURITIES REGISTERED PURSUANT TO SECTION 12(g) OF THE ACT: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.

Duke Energy	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Duke Energy Florida, LLC (Duke Energy Florida)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Duke Energy Carolinas, LLC (Duke Energy Carolinas)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Duke Energy Ohio, Inc. (Duke Energy Ohio)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Progress Energy, Inc. (Progress Energy)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Duke Energy Indiana, LLC (Duke Energy Indiana)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Duke Energy Progress, LLC (Duke Energy Progress)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Piedmont Natural Gas Company, Inc. (Piedmont)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Exchange Act. Yes ☐ No ☒ (Response applicable to all registrants.)

Indicate by check mark whether the registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months

(or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes ☒ No ☐

Indicate by check mark whether the registrants have submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter)

during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes ☒ No ☐

Indicate by check mark whether Duke Energy is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.: Large accelerated filer ☒ Accelerated filer ☐ Non-accelerated filer ☐ Smaller reporting company ☐ Emerging growth company ☐

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether each of Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont is a large accelerated filer, accelerated filer, non-accelerated filer, smaller reporting company, or emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.: Large accelerated filer ☐ Accelerated filer ☐ Non-accelerated filer ☒ Smaller reporting company ☐ Emerging growth company ☐

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether each of the registrants is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes ☐ No ☒

Estimated aggregate market value of the common equity held by nonaffiliates of Duke Energy at June 30, 2019.

\$64,230,558,771

Number of shares of Common Stock, \$0.001 par value, outstanding at January 31, 2020.

733,321,965

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the Duke Energy definitive proxy statement for the 2020 Annual Meeting of the Shareholders or an amendment to this Annual Report are incorporated by reference into PART III, Items 10, 11 and 13 hereof. This combined Form 10-K is filed separately by eight registrants: Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont (collectively the Duke Energy Registrants). Information contained herein relating to any individual registrant is filed by such registrant solely on its own behalf. Each registrant makes no representation as to information relating exclusively to the other registrants.

Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont meet the conditions set forth in General Instructions I(1)(a) and (b) of Form 10-K and are, therefore, filing this Form 10-K with the reduced disclosure format specified in General Instructions I(2) of Form 10-K.

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Step 13 2021

FORM 10-K FOR THE YEAR ENDED DECEMBER 31, 2019

Item	Page
CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING INFORMATION	
GLOSSARY OF TERMS	
PART I.	
1. BUSINESS	5
DUKE ENERGY	5
GENERAL	5
BUSINESS SEGMENTS	5
EMPLOYEES	14
EXECUTIVE OFFICERS	14
ENVIRONMENTAL MATTERS	15
DUKE ENERGY CAROLINAS	15
PROGRESS ENERGY	15
DUKE ENERGY PROGRESS	15
DUKE ENERGY FLORIDA	15
DUKE ENERGY OHIO	16
DUKE ENERGY INDIANA	16
PIEDMONT	16
1A. RISK FACTORS	16
1B. UNRESOLVED STAFF COMMENTS	23
2. PROPERTIES	23
3. LEGAL PROCEEDINGS	27
4. MINE SAFETY DISCLOSURES	27
PART II.	
5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES	28
6. SELECTED FINANCIAL DATA	29
7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS	29
7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK	57
8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA	58
9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE	211
9A. CONTROLS AND PROCEDURES	211
PART III.	
10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE	213
11. EXECUTIVE COMPENSATION	213
12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS	213
13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE	213
14. PRINCIPAL ACCOUNTING FEES AND SERVICES	214
PART IV	
15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES	215
EXHIBIT INDEX	E-1
SIGNATURES	E-27

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING INFORMATION

This document includes forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. Forward-looking statements are based on management's beliefs and assumptions and can often be identified by terms and phrases that include "anticipate," "believe," "intend," "estimate," "expect," "continue," "should," "could," "may," "plan," "project," "predict," "will," "potential," "forecast," "target," "guidance," "outlook" or other similar terminology. Various factors may cause actual results to be materially different than the suggested outcomes within forward-looking statements; accordingly, there is no assurance that such results will be realized. These factors include, but are not limited to:

- State, federal and foreign legislative and regulatory initiatives, including costs of compliance with existing and future environmental requirements, including those related to climate change, as well as rulings that affect cost and investment recovery or have an impact on rate structures or market prices;

- The extent and timing of costs and liabilities to comply with federal and state laws, regulations and legal requirements related to coal ash remediation, including amounts for required closure of certain ash impoundments, are uncertain and difficult to estimate;
- The ability to recover eligible costs, including amounts associated with coal ash impoundment retirement obligations and costs related to significant weather events, and to earn an adequate return on investment through rate case proceedings and the regulatory process;
- The costs of decommissioning nuclear facilities could prove to be more extensive than amounts estimated and all costs may not be fully recoverable through the regulatory process;
- Costs and effects of legal and administrative proceedings, settlements, investigations and claims;
- Industrial, commercial and residential growth or decline in service territories or customer bases resulting from sustained downturns of the economy and the economic health of our service territories or variations in customer usage patterns, including energy efficiency efforts and use of alternative energy sources, such as self-generation and distributed generation technologies;
- Federal and state regulations, laws and other efforts designed to promote and expand the use of energy efficiency measures and distributed generation technologies, such as private solar and battery storage, in Duke Energy service territories could result in customers leaving the electric distribution system, excess generation resources as well as stranded costs;
- Advancements in technology;
- Additional competition in electric and natural gas markets and continued industry consolidation;
- The influence of weather and other natural phenomena on operations, including the economic, operational and other effects of severe storms, hurricanes, droughts, earthquakes and tornadoes, including extreme weather associated with climate change;
- The ability to successfully operate electric generating facilities and deliver electricity to customers including direct or indirect effects to the company resulting from an incident that affects the United States electric grid or generating resources;
- The ability to obtain the necessary permits and approvals and to complete necessary or desirable pipeline expansion or infrastructure projects in our natural gas business;
- Operational interruptions to our natural gas distribution and transmission activities;
- The availability of adequate interstate pipeline transportation capacity and natural gas supply;
- The impact on facilities and business from a terrorist attack, cybersecurity threats, data security breaches, operational accidents, information technology failures or other catastrophic events, such as fires, explosions, pandemic health events or other similar occurrences;
- The inherent risks associated with the operation of nuclear facilities, including environmental, health, safety, regulatory and financial risks, including the financial stability of third-party service providers;
- The timing and extent of changes in commodity prices and interest rates and the ability to recover such costs through the regulatory process, where appropriate, and their impact on liquidity positions and the value of underlying assets;
- The results of financing efforts, including the ability to obtain financing on favorable terms, which can be affected by various factors, including credit ratings, interest rate fluctuations, compliance with debt covenants and conditions and general market and economic conditions;
- Credit ratings of the Duke Energy Registrants may be different from what is expected;
- Declines in the market prices of equity and fixed-income securities and resultant cash funding requirements for defined benefit pension plans, other post-retirement benefit plans and nuclear decommissioning trust funds;
- Construction and development risks associated with the completion of the Duke Energy Registrants' capital investment projects, including risks related to financing, obtaining and complying with terms of permits, meeting construction budgets and schedules and satisfying operating and environmental performance standards, as well as the ability to recover costs from customers in a timely manner, or at all;
- Changes in rules for regional transmission organizations, including changes in rate designs and new and evolving capacity markets, and risks related to obligations created by the default of other participants;
- The ability to control operation and maintenance costs;
- The level of creditworthiness of counterparties to transactions;
- The ability to obtain adequate insurance at acceptable costs;
- Employee workforce factors, including the potential inability to attract and retain key personnel;
- The ability of subsidiaries to pay dividends or distributions to Duke Energy Corporation holding company (the Parent);
- The performance of projects undertaken by our nonregulated businesses and the success of efforts to invest in and develop new opportunities;
- The effect of accounting pronouncements issued periodically by accounting standard-setting bodies;
- The impact of United States tax legislation to our financial condition, results of operations or cash flows and our credit ratings;
- The impacts from potential impairments of goodwill or equity method investment carrying values; and
- The ability to implement our business strategy, including enhancing existing technology systems.

Additional risks and uncertainties are identified and discussed in the Duke Energy Registrants' reports filed with the SEC and available at the SEC's website at sec.gov. In light of these risks, uncertainties and assumptions, the events described in the forward-looking statements might not occur or might occur to a different extent or at a different time than described. Forward-looking statements speak only as of the date they are made and the Duke Energy Registrants expressly disclaim an obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

Glossary of Terms

The following terms or acronyms used in this Form 10-K are defined below:

Term or Acronym	Definition	Term or Acronym	Definition
2013 Settlement	Revised and Restated Stipulation and Settlement Agreement approved in November 2013 among Duke Energy Florida, the Florida Office of Public Counsel and other customer advocates	DEFR	Duke Energy Florida Receivables, LLC
2017 Settlement	Second Revised and Restated Settlement Agreement in 2017 among Duke Energy Florida, the Florida Office of Public Counsel and other customer advocates, which replaces and supplants the 2013 Settlement	Deloitte	Deloitte & Touche LLP, and the member firms of Deloitte Touche Tohmatsu and their respective affiliates
ACE	Affordable Clean Energy	DEPR	Duke Energy Progress Receivables, LLC
ACP	Atlantic Coast Pipeline, LLC, a limited liability company owned by Dominion, Duke Energy and Southern Company Gas	DERF	Duke Energy Receivables Finance Company, LLC
ACP pipeline	The approximately 600-mile proposed interstate natural gas pipeline	DETM	Duke Energy Trading and Marketing, LLC
AFUDC	Allowance for funds used during construction	DOE	U.S. Department of Energy
AFS	Available for Sale	Dominion	Dominion Energy, Inc.
ALJ	Administrative Law Judge	DRIP	Dividend Reinvestment Program
AMI	Advanced Metering Infrastructure	Dth	Dekatherms
AMT	Alternative Minimum Tax	Duke Energy	Duke Energy Corporation (collectively with its subsidiaries)
AOCI	Accumulated Other Comprehensive Income (Loss)	Duke Energy Carolinas	Duke Energy Carolinas, LLC
ARO	Asset Retirement Obligation	Duke Energy Florida	Duke Energy Florida, LLC
ATM	At-the-market	Duke Energy Indiana	Duke Energy Indiana, LLC
Audit Committee	Audit Committee of the Board of Directors	Duke Energy Kentucky	Duke Energy Kentucky, Inc.
Beckjord	Beckjord Generating Station	Duke Energy Ohio	Duke Energy Ohio, Inc.
Belews Creek	Belews Creek Steam Station	Duke Energy Progress	Duke Energy Progress, LLC
Bison	Bison Insurance Company Limited	Duke Energy Registrants	Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont
Board of Directors	Duke Energy Board of Directors	East Bend	East Bend Generating Station
Brunswick	Brunswick Nuclear Plant	EE	Energy efficiency
Cardinal	Cardinal Pipeline Company, LLC	EPA	U.S. Environmental Protection Agency
Catawba	Catawba Nuclear Station	EPC	Engineering, Procurement and Construction agreement
CC	Combined Cycle	EPS	Earnings Per Share
CCR	Coal Combustion Residuals	ETR	Effective tax rate
Cinergy	Cinergy Corp. (collectively with its subsidiaries)	Exchange Act	Securities Exchange Act of 1934
Citrus County CC	Citrus County Combined Cycle Facility	FASB	Financial Accounting Standards Board
CO ₂	Carbon Dioxide	FERC	Federal Energy Regulatory Commission
Coal Ash Act	North Carolina Coal Ash Management Act of 2014	FES	FirstEnergy Solutions Corp.
the Company	Duke Energy Corporation and its subsidiaries	Form S-3	Registration statement
Constitution	Constitution Pipeline Company, LLC	FPSC	Florida Public Service Commission
CPCN	Certificate of Public Convenience and Necessity	FTR	Financial transmission rights
CRC	Cinergy Receivables Company LLC	Fluor	Fluor Enterprises, Inc.
Crystal River Unit 3	Crystal River Unit 3 Nuclear Plant	FV-NI	Fair value through net income
CWA	Clean Water Act	GAAP	Generally Accepted Accounting Principles in the United States
DATC	Duke-American Transmission Co.	GAAP Reported EPS	Diluted EPS Available to Duke Energy Corporation common stockholders
D.C. Circuit Court	U.S. Court of Appeals for the District of Columbia	GHG	Greenhouse Gas
		GWh	Gigawatt-hours
		Hardy Storage	Hardy Storage Company, LLC
		Harris	Shearon Harris Nuclear Plant
		HLBV	Hypothetical Liquidation at Book Value

Term or Acronym	Definition
IGCC	Integrated Gasification Combined Cycle
IMPA	Indiana Municipal Power Agency
IMR	Integrity Management Rider
IRP	Integrated Resource Plans
IRS	Internal Revenue Service
ISO	Independent System Operator
ITC	Investment Tax Credit
IURC	Indiana Utility Regulatory Commission
Investment Trusts	Grantor trusts of Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana
KO Transmission	KO Transmission Company
KPSC	Kentucky Public Service Commission
LIBOR	London Interbank Offered Rate
LLC	Limited Liability Company
McGuire	McGuire Nuclear Station
MGP	Manufactured gas plant
MISO	Midcontinent Independent System Operator, Inc.
MMBtu	Million British Thermal Unit
MTBE	Methyl tertiary butyl ether
MTEP	MISO Transmission Expansion Planning
MW	Megawatt
MWh	Megawatt-hour
NCDEQ	North Carolina Department of Environmental Quality
NCEMC	North Carolina Electric Membership Corporation
NCEMPA	North Carolina Eastern Municipal Power Agency
NCUC	North Carolina Utilities Commission
NDTF	Nuclear decommissioning trust funds
New Source Review	Clean Air Act program that requires industrial facilities to install modern pollution control equipment when they are built or when making a change that increases emissions significantly
NMC	National Methanol Company
NOL	Net operating loss
NO _x	Nitrogen oxide
NPNS	Normal purchase/normal sale
NRC	U.S. Nuclear Regulatory Commission
NYSE	New York Stock Exchange
Oconee	Oconee Nuclear Station
OPEB	Other Post-Retirement Benefit Obligations
OPEB Assets	Other post-retirement plan assets are comprised of the Retirement Plan of Piedmont 401(h) Medical Plan, and the following VEBA Trusts: Duke Energy Corporation Employee Benefits Trust, Piedmont Natural Gas Company 501(c)(9) Trust for Retired Bargaining Unit Employees and the Piedmont Natural Gas Company 501(c)(9) Trust for Retired Non-Bargaining Unit Employees
ORS	Office of Regulatory Staff
OTTI	Other-than-temporary impairment
OVEC	Ohio Valley Electric Corporation
the Parent	Duke Energy Corporation holding company
PGA	Purchased Gas Adjustments
PHMSA	Pipeline and Hazardous Materials Safety Administration

Term or Acronym	Definition
Piedmont	Piedmont Natural Gas Company, Inc.
Pine Needle	Pine Needle LNG Company, LLC
Pioneer	Pioneer Transmission, LLC
PJM	PJM Interconnection, LLC
PMPA	Piedmont Municipal Power Agency
PPA	Purchase Power Agreement
Progress Energy	Progress Energy, Inc.
PSCSC	Public Service Commission of South Carolina
PTC	Production Tax Credits
PUCO	Public Utilities Commission of Ohio
PURPA	Public Utility Regulatory Policies Act of 1978
QF	Qualifying Facility
RCA	Revolving Credit Agreement
RFP	Requests for Proposal
REC	Renewable Energy Certificate
REC Solar	REC Solar Corp.
Relative TSR	TSR of Duke Energy stock relative to a predefined peer group
Robinson	Robinson Nuclear Plant
RSU	Restricted Stock Unit
RTO	Regional Transmission Organization
Sabal Trail	Sabal Trail Transmission, LLC
SAFSTOR	A method of decommissioning in which a nuclear facility is placed and maintained in a condition that allows the facility to be safely stored and subsequently decontaminated to levels that permit release for unrestricted use
SEC	Securities and Exchange Commission
SELC	Southern Environmental Law Center
Segment Income	Income from continuing operations net of income attributable to noncontrolling interests and preferred stock dividends
SO ₂	Sulfur dioxide
Spectra Capital	Spectra Energy Capital, LLC
S&P	Standard & Poor's Rating Services
State utility commissions	NCUC, PSCSC, FPSC, PUCO, IURC, KPSC and TPUC (Collectively)
State electric utility commissions	NCUC, PSCSC, FPSC, PUCO, IURC and KPSC (Collectively)
State gas utility commissions	NCUC, PSCSC, PUCO, TPUC and KPSC (Collectively)
Subsidiary Registrants	Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont
Sutton	L.V. Sutton Combined Cycle Plant
the Tax Act	Tax Cuts and Jobs Act
TPUC	Tennessee Public Utility Commission
TSR	Total shareholder return
U.S.	United States
VEBA	Voluntary Employees' Beneficiary Association
VIE	Variable Interest Entity
WACC	Weighted Average Cost of Capital
WNA	Weather normalization adjustment
W.S. Lee CC	William States Lee Combined Cycle Facility
WVPA	Wabash Valley Power Association, Inc.

PART I

ITEM 1. BUSINESS

DUKE ENERGY

General

Duke Energy was incorporated on May 3, 2005, and is an energy company headquartered in Charlotte, North Carolina, subject to regulation by the FERC and other regulatory agencies listed below. Duke Energy operates in the U.S. primarily through its direct and indirect subsidiaries. Certain Duke Energy subsidiaries are also Subsidiary Registrants, including Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont. When discussing Duke Energy's consolidated financial information, it necessarily includes the results of its separate Subsidiary Registrants, which along with Duke Energy, are collectively referred to as the Duke Energy Registrants.

The Duke Energy Registrants electronically file reports with the SEC, including Annual Reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, proxy statements and amendments to such reports.

The SEC maintains an internet site that contains reports, proxy and information statements and other information regarding issuers that file electronically with the SEC at sec.gov. Additionally, information about the Duke Energy Registrants, including reports filed with the SEC, is available through Duke Energy's website at duke-energy.com. Such reports are accessible at no charge and are made available as soon as reasonably practicable after such material is filed with or furnished to the SEC.

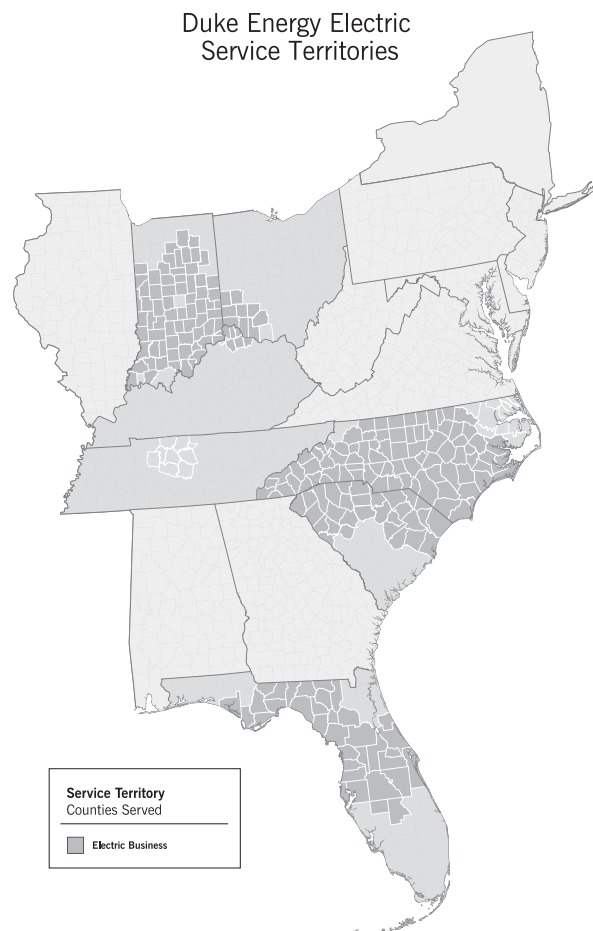
Business Segments

Duke Energy's segment structure includes three reportable business segments: Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables. The remainder of Duke Energy's operations is presented as Other. Duke Energy's chief operating decision-maker routinely reviews financial information about each of these business segments in deciding how to allocate resources and evaluate the performance of the business. For additional information on each of these business segments, including financial and geographic information, see Note 3 to the Consolidated Financial Statements, "Business Segments." The following sections describe the business and operations of each of Duke Energy's business segments, as well as Other.

ELECTRIC UTILITIES AND INFRASTRUCTURE

Electric Utilities and Infrastructure conducts operations primarily through the regulated public utilities of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida, Duke Energy Indiana and Duke Energy Ohio. Electric Utilities and Infrastructure provides retail electric service through the generation, transmission, distribution and sale of electricity to approximately 7.8 million customers within the Southeast and Midwest regions of the U.S. The

service territory is approximately 91,000 square miles across six states with a total estimated population of 25 million people. The operations include electricity sold wholesale to municipalities, electric cooperative utilities and other load-serving entities. Electric Utilities and Infrastructure is also a joint owner in certain electric transmission projects. Electric Utilities and Infrastructure has a 50% ownership interest in DATC, a partnership with American Transmission Company, formed to design, build and operate transmission infrastructure. DATC owns 72% of the transmission service rights to Path 15, an 84-mile transmission line in central California. Electric Utilities and Infrastructure also has a 50% ownership interest in Pioneer which builds, owns and operates electric transmission facilities in North America. The following map shows the service territory for Electric Utilities and Infrastructure as of December 31, 2019.



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PART I

The electric operations and investments in projects are subject to the rules and regulations of the FERC, the NRC, the NCUC, the PSCSC, the FPSC, the IURC, the PUCO and the KPSC.

The following table represents the distribution of billed sales by customer class for the year ended December 31, 2019.

	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Residential	32%	27%	49%	37%	29%
General service	33%	23%	37%	38%	26%
Industrial	24%	15%	7%	23%	32%
Total retail sales	89%	65%	93%	98%	87%
Wholesale and other sales	11%	35%	7%	2%	13%
Total sales	100%	100%	100%	100%	100%

The number of residential and general service customers within the Electric Utilities and Infrastructure service territory is expected to increase over time. While economic conditions within the service territory remain strong, sales growth continues to be influenced by adoption of energy efficiencies and self-generation. Residential sales for 2019 compared to 2018 declined. The continued adoption of more efficient structures and appliances is expected to continue to drive average usage per customer lower over time. However, the continued adoption of more efficient housing and appliances is expected to have a negative impact on average usage per residential customer over time.

Seasonality and the Impact of Weather

Revenues and costs are influenced by seasonal weather patterns. Peak sales of electricity occur during the summer and winter months, which results in higher revenue and cash flows during these periods. By contrast, lower sales of electricity occur during the spring and fall, allowing for scheduled plant maintenance. Residential and general service customers are more impacted by weather than industrial customers. Estimated weather impacts are based on actual current period weather compared to normal weather conditions. Normal weather conditions are defined as the long-term average of actual historical weather conditions.

The estimated impact of weather on earnings is based on the temperature variances from a normal condition and customers' historic usage patterns. The methodology used to estimate the impact of weather does not consider all variables that may impact customer response to weather conditions such as humidity in the summer or wind chill in the winter. The precision of this estimate may also be impacted by applying long-term weather trends to shorter-term periods.

Heating-degree days measure the variation in weather based on the extent the average daily temperature falls below a base temperature. Cooling-degree days measure the variation in weather based on the extent the average daily temperature rises above the base temperature. Each degree of temperature below the base temperature counts as one heating-degree day and each degree of temperature above the base temperature counts as one cooling-degree day.

Competition

Retail

Electric Utilities and Infrastructure's businesses operate as the sole supplier of electricity within their service territories, with the exception of Ohio, which has a competitive electricity supply market for generation service. Electric Utilities and Infrastructure owns and operates facilities necessary to generate, transmit, distribute and sell electricity. Services are priced by state commission approved rates designed to include the costs of providing these services and a reasonable return on invested capital. This regulatory policy is intended to provide safe and reliable electricity at fair prices.

In Ohio, Electric Utilities and Infrastructure conducts competitive auctions for electricity supply. The cost of energy purchased through these auctions is recovered from retail customers. Electric Utilities and Infrastructure earns retail margin in Ohio on the transmission and distribution of electricity, but not on the cost of the underlying energy.

Competition in the regulated electric distribution business is primarily from the development and deployment of alternative energy sources including on-site generation from industrial customers and distributed generation, such as private solar, at residential, general service and/or industrial customer sites.

Wholesale

Duke Energy competes with other utilities and merchant generators for bulk power sales, sales to municipalities and cooperatives and wholesale transactions under primarily cost-based contracts approved by FERC. The principal factors in competing for these sales are availability of capacity and power, reliability of service and price. Prices are influenced primarily by market conditions and fuel costs.

Increased competition in the wholesale electric utility industry and the availability of transmission access could affect Electric Utilities and Infrastructure's load forecasts, plans for power supply and wholesale energy sales and related revenues. Wholesale energy sales will be impacted by the extent to which additional generation is available to sell to the wholesale market and the ability of Electric Utilities and Infrastructure to attract new customers and to retain existing customers.

Energy Capacity and Resources

Electric Utilities and Infrastructure owns approximately 51,144 MW of generation capacity. For additional information on owned generation facilities, see Item 2, "Properties."

Energy and capacity are also supplied through contracts with other generators and purchased on the open market. Factors that could cause Electric Utilities and Infrastructure to purchase power for its customers may include, but are not limited to, generating plant outages, extreme weather conditions, generation reliability, demand growth and price. Electric Utilities and Infrastructure has interconnections and arrangements with its neighboring utilities to facilitate planning, emergency assistance, sale and purchase of capacity and energy and reliability of power supply.

Electric Utilities and Infrastructure's generation portfolio is a balanced mix of energy resources having different operating characteristics and fuel sources designed to provide energy at the lowest possible cost to meet its obligation to serve retail customers. All options, including owned generation resources and purchased power opportunities, are continually evaluated on a real-time basis to select and dispatch the lowest-cost resources available to meet system load requirements.

PART I

Sources of Electricity

Electric Utilities and Infrastructure relies principally on natural gas, nuclear fuel and coal for its generation of electricity. The following table lists sources of electricity and fuel costs for the three years ended December 31, 2019.

	Generation by Source			Cost of Delivered Fuel per Net Kilowatt-hour Generated (Cents)		
	2019	2018	2017	2019	2018	2017
Natural gas and oil ^(a)	29.2%	26.2%	23.6%	2.96	3.57	2.85
Nuclear ^(a)	28.6%	26.0%	27.8%	0.60	0.50	0.69
Coal ^(a)	21.6%	24.4%	27.4%	3.08	2.82	2.72
All fuels (cost-based on weighted average) ^(a)	79.4%	76.6%	78.8%	2.14	2.29	2.04
Hydroelectric and solar ^(b)	1.2%	1.3%	0.7%			
Total generation	80.6%	77.9%	79.5%			
Purchased power and net interchange	19.4%	22.1%	20.5%			
Total sources of energy	100.0%	100.0%	100.0%			

(a) Statistics related to all fuels reflect Electric Utilities and Infrastructure's ownership interest in jointly owned generation facilities.

(b) Generating figures are net of output required to replenish pumped storage facilities during off-peak periods.

Natural Gas and Fuel Oil

Natural gas and fuel oil supply, transportation and storage for Electric Utilities and Infrastructure's generation fleet is purchased under standard industry agreements from various suppliers, including Piedmont. Natural gas supply agreements typically provide for a percentage of forecasted burns being procured over time, with varied expiration dates. Electric Utilities and Infrastructure believes it has access to an adequate supply of natural gas and fuel oil for the reasonably foreseeable future.

Electric Utilities and Infrastructure has certain dual-fuel generating facilities that can operate utilizing both natural gas and fuel oil. The cost of Electric Utilities and Infrastructure's natural gas and fuel oil is fixed price or determined by published market prices as reported in certain industry publications, plus any transportation and freight costs. Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana use derivative instruments to manage a portion of their exposure to price fluctuations for natural gas. For Duke Energy Florida, there is currently an agreed to moratorium with the FPSC on future hedging of natural gas prices.

Electric Utilities and Infrastructure has firm interstate and intrastate natural gas transportation agreements and storage agreements in place to support generation needed for load requirements. Electric Utilities and Infrastructure may purchase additional shorter-term natural gas transportation and utilize natural gas interruptible transportation agreements to support generation needed for load requirements. The Electric Utilities and Infrastructure natural gas plants are served by various supply zones and multiple pipelines.

Nuclear

The industrial processes for producing nuclear generating fuel generally involve the mining and milling of uranium ore to produce uranium concentrates and services to convert, enrich and fabricate fuel assemblies.

Electric Utilities and Infrastructure has contracted for uranium materials and services to fuel its nuclear reactors. Uranium concentrates, conversion services and enrichment services are primarily met through a diversified portfolio of long-term supply contracts. The contracts are diversified by supplier, country of origin and pricing. Electric Utilities and Infrastructure staggers its contracting so that its portfolio of long-term contracts covers the majority of its fuel requirements in the near term and decreasing portions of its fuel requirements over time thereafter. Near-term requirements not met by long-term supply contracts have been and are expected to be fulfilled with spot market purchases. Due to the technical complexities of changing suppliers of fuel fabrication services, Electric Utilities and Infrastructure generally sources these services to a single domestic supplier on a plant-by-plant basis using multiyear contracts.

Electric Utilities and Infrastructure has entered into fuel contracts that cover 100% of its uranium concentrates, conversion services and enrichment services requirements through at least 2020 and cover fabrication services requirements for these plants through at least 2027. For future requirements not already covered under long-term contracts, Electric Utilities and Infrastructure believes it will be able to renew contracts as they expire or enter into similar contractual arrangements with other suppliers of nuclear fuel materials and services.

Coal

Electric Utilities and Infrastructure meets its coal demand through a portfolio of long-term purchase contracts and short-term spot market purchase agreements. Large amounts of coal are purchased under long-term contracts with mining operators who mine both underground and at the surface. Electric Utilities and Infrastructure uses spot market purchases to meet coal requirements not met by long-term contracts. Expiration dates for its long-term contracts, which have various price adjustment provisions and market reopeners, range from 2020 to 2022 for Duke Energy Carolinas and Duke Energy Progress, 2020 to 2021 for Duke Energy Florida and Duke Energy Ohio and 2020 to 2025 for Duke Energy Indiana. Electric Utilities and Infrastructure expects to renew these contracts or enter into similar contracts with other suppliers as existing contracts expire, though prices will fluctuate over time as coal markets change. Electric Utilities and Infrastructure has an adequate supply of coal under contract to meet its hedging guidelines regarding projected future consumption. As a result of volatility in natural gas prices and the associated impacts on coal-fired dispatch within the generation fleet, coal inventories will continue to fluctuate. Electric Utilities and Infrastructure continues to actively manage its portfolio and has worked with suppliers to obtain increased flexibility in its coal contracts.

Coal purchased for the Carolinas is primarily produced from mines in Central Appalachia, Northern Appalachia and the Illinois Basin. Coal purchased for Florida is primarily produced from mines in Colorado and the Illinois Basin. Coal purchased for Kentucky is produced from mines along the Ohio River in Illinois, Ohio, West Virginia and Pennsylvania. Coal purchased for Indiana is primarily produced in Indiana and Illinois. The current average sulfur content of coal purchased by Electric Utilities and Infrastructure is between 1.5% and 2% for Duke Energy Carolinas and Duke Energy Progress, between 2% and 3% for Duke Energy Florida, between 2.5% and 3% for Duke Energy Ohio and between 1.5% and 3% for Duke Energy Indiana. Electric Utilities and Infrastructure's environmental controls, in combination with the use of SO₂ emission allowances, enable Electric Utilities and Infrastructure to satisfy current SO₂ emission limitations for its existing facilities.

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PART I

Purchased Power

Electric Utilities and Infrastructure purchases a portion of its capacity and system requirements through purchase obligations, leases and purchase capacity contracts. Electric Utilities and Infrastructure believes it can obtain

The following table summarizes purchased power for the previous three years:

	2019	2018	2017
Purchase obligations and leases (in millions of MWh) ^(a)	34.8	21.3	17.7
Purchase capacity under contract (in MW) ^(b)	4,238	4,025	4,028

(a) Represents approximately 14% for 2019 and 7% for 2018 and 2017 of total system requirements.

(b) For 2019, 2018 and 2017 these agreements include approximately 412 MW of firm capacity under contract by Duke Energy Florida with QFs.

Inventory

Electric Utilities and Infrastructure must maintain an adequate stock of fuel and materials and supplies in order to ensure continuous operation of generating facilities and reliable delivery to customers. As of December 31, 2019, the inventory balance for Electric Utilities and Infrastructure was approximately \$3 billion. For additional information on inventory, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

Ash Basin Management

During 2015, EPA issued regulations related to the management of CCR from power plants. These regulations classify CCR as nonhazardous waste under the Resource Conservation and Recovery Act (RCRA) and apply to electric generating sites with new and existing landfills and new and existing surface impoundments and establishes requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring, protection and remedial procedures and other operational and reporting procedures for the disposal and management of CCR. In addition to the federal regulations, CCR landfills and surface impoundments (ash basins or impoundments) will continue to be regulated by existing state laws, regulations and permits, including the Coal Ash Act in North Carolina.

Electric Utilities and Infrastructure has and will periodically submit to applicable authorities required site-specific coal ash impoundment remediation or closure plans. These plans and all associated permits must be approved before any work can begin. Closure activities began in 2015 at the four sites specified as high priority by the Coal Ash Act and at the W.S. Lee Steam Station site in South Carolina in connection with other legal requirements. Excavation at these sites involves movement of CCR materials to off-site locations for use as structural fill, to appropriate engineered off-site or on-site lined landfills or conversion of the ash for beneficial use. Duke Energy has completed excavation of coal ash regulated by the Coal Ash Act at three of the four high-priority sites. At other sites, planning and closure methods have been studied and factored into the estimated retirement and management costs, and closure activities have commenced.

The following table summarizes the fair value of NDTF investments and the most recent site-specific nuclear decommissioning cost studies. Decommissioning costs are stated in 2018 or 2019 dollars, depending on the year of the cost study, and include costs to decommission plant components not subject to radioactive contamination.

(in millions)	NDTF ^(a)		Decommissioning Costs ^(a)	Year of Cost Study
	December 31, 2019	December 31, 2018		
Duke Energy	\$ 8,140	\$ 6,720	\$ 9,152	2018 and 2019
Duke Energy Carolinas ^{(b)(c)}	4,359	3,558	4,365	2018
Duke Energy Progress ^(d)	3,047	2,503	4,181	2019
Duke Energy Florida ^(e)	734	659	606	2019

(a) Amounts for Progress Energy equal the sum of Duke Energy Progress and Duke Energy Florida.

(b) Decommissioning cost for Duke Energy Carolinas reflects its ownership interest in jointly owned reactors. Other joint owners are responsible for decommissioning costs related to their interest in the reactors.

(c) Duke Energy Carolinas' site-specific nuclear decommissioning cost study completed in 2018 was filed with the NCUC and PSCSC in 2019. A new funding study was also completed and filed with the NCUC and PSCSC in 2019.

(d) Duke Energy Progress' site-specific nuclear decommissioning cost study, which was completed in 2019, is expected to be filed with the NCUC and PSCSC during the first quarter of 2020. Duke Energy Progress is expected to file an updated funding study with NCUC and PSCSC in the third quarter of 2020.

(e) During 2019, Duke Energy Florida reached an agreement to transfer decommissioning work for Crystal River Unit 3 to a third party. The agreement requires regulatory approval from the NRC and the FPSC.

adequate purchased power capacity to meet future system load needs. However, during periods of high demand, the price and availability of purchased power may be significantly affected.

The Coal Ash Act leaves the decision on cost recovery determinations related to closure of coal ash surface impoundments to the normal ratemaking processes before utility regulatory commissions. Duke Energy Carolinas and Duke Energy Progress have included compliance costs associated with the EPA CCR rule and the Coal Ash Act in their respective rate case filings. During 2017, Duke Energy Carolinas' and Duke Energy Progress' wholesale contracts were amended to include the recovery of expenditures related to AROs for the closure of coal ash basins. The amended contracts have retail disallowance parity or provisions limiting challenges to CCR cost recovery actions at FERC. FERC approved the amended wholesale rate schedules in 2017. For additional information on the ash basins and recovery, see Item 7, "Other Matters" and Notes 4, 5 and 10 to the Consolidated Financial Statements, "Regulatory Matters," "Commitments and Contingencies" and "Asset Retirement Obligations," respectively.

Nuclear Matters

Duke Energy owns, wholly or partially, 11 operating nuclear reactors located at six operating stations. The Crystal River Unit 3 permanently ceased operation in February 2013. Nuclear insurance includes: nuclear liability coverage; property damage coverage; nuclear accident decontamination and premature decommissioning coverage; and accidental outage coverage for losses in the event of a major accidental outage. Joint owners reimburse Duke Energy for certain expenses associated with nuclear insurance in accordance with joint owner agreements. The Price-Anderson Act requires plant owners to provide for public nuclear liability claims resulting from nuclear incidents to the maximum total financial protection liability, which is approximately \$13.9 billion. For additional information on nuclear insurance see Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies."

Duke Energy has a significant future financial commitment to dispose of spent nuclear fuel and decommission and decontaminate each plant safely. The NCUC, PSCSC and FPSC require Duke Energy to update their cost estimates for decommissioning their nuclear plants every five years.

PART I

The NCUC, PSCSC, FPSC and FERC have allowed Electric Utilities and Infrastructure to recover estimated decommissioning costs through retail and wholesale rates over the expected remaining service periods of their nuclear stations. Electric Utilities and Infrastructure believes the decommissioning costs being recovered through rates, when coupled with the existing fund balances and expected fund earnings, will be sufficient to provide for the cost of future decommissioning. For additional information, see Note 10 to the Consolidated Financial Statements, "Asset Retirement Obligations."

The Nuclear Waste Policy Act of 1982 (as amended) provides the framework for development by the federal government of interim storage and permanent disposal facilities for high-level radioactive waste materials. The government has not yet developed a storage facility or disposal capacity, so Electric Utilities and Infrastructure will continue to store spent fuel on its reactor sites.

Under federal law, the DOE is responsible for the selection and construction of a facility for the permanent disposal of spent nuclear fuel and high-level radioactive waste. The DOE terminated the project to license and develop a geologic repository at Yucca Mountain, Nevada in 2010, and is currently taking no action to fulfill its responsibilities to dispose of spent fuel.

Until the DOE begins to accept the spent nuclear fuel, Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida will continue to safely manage their spent nuclear fuel. Under current regulatory guidelines, Harris has sufficient storage capacity in its spent fuel pools through the expiration of its renewed operating license. With certain modifications and approvals by the NRC to expand the on-site dry cask storage facilities, spent nuclear fuel dry storage facilities will be sufficient to provide storage space of spent fuel through the expiration of the operating licenses, including any license renewals, for Brunswick, Catawba, McGuire, Oconee and Robinson. Crystal River Unit 3 ceased operation in 2013 and was placed in a SAFSTOR condition in January 2018. As of January 2018, all spent fuel at Crystal River Unit 3 has been transferred from the spent fuel pool to dry storage at an on-site independent spent fuel storage installation.

The nuclear power industry faces uncertainties with respect to the cost and long-term availability of disposal sites for spent nuclear fuel and other radioactive waste, compliance with changing regulatory requirements, capital outlays for modifications and new plant construction.

Electric Utilities and Infrastructure is subject to the jurisdiction of the NRC for the design, construction and operation of its nuclear generating facilities. The following table includes the current year of expiration of nuclear operating licenses for nuclear stations in operation. During 2019, Duke Energy announced its intention to seek 20-year operating license renewals for each of the reactors it operates in Duke Energy Carolinas and Duke Energy Progress.

Unit	Year of Expiration
Duke Energy Carolinas	
Catawba Units 1 and 2	2043
McGuire Unit 1	2041
McGuire Unit 2	2043
Oconee Units 1 and 2	2033
Oconee Unit 3	2034
Duke Energy Progress	
Brunswick Unit 1	2036
Brunswick Unit 2	2034
Harris	2046
Robinson	2030

The NRC has acknowledged permanent cessation of operation and permanent removal of fuel from the reactor vessel at Crystal River Unit 3. Therefore, the license no longer authorizes operation of the reactor. For additional information on nuclear decommissioning activity, see Notes 4 and 10 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively.

Regulation

State

The state electric utility commissions approve rates for Duke Energy's retail electric service within their respective states. The state electric utility commissions, to varying degrees, have authority over the construction and operation of Electric Utilities and Infrastructure's generating facilities. CPCNs issued by the state electric utility commissions, as applicable, authorize Electric Utilities and Infrastructure to construct and operate its electric facilities and to sell electricity to retail and wholesale customers. Prior approval from the relevant state electric utility commission is required for the entities within Electric Utilities and Infrastructure to issue securities. The underlying concept of utility ratemaking is to set rates at a level that allows the utility to collect revenues equal to its cost of providing service plus earn a reasonable rate of return on its invested capital, including equity.

In addition to rates approved in base rate cases, each of the state electric utility commissions allow recovery of certain costs through various cost-recovery clauses to the extent the respective commission determines in periodic hearings that such costs, including any past over or under-recovered costs, are prudent.

Fuel, fuel-related costs and certain purchased power costs are eligible for recovery by Electric Utilities and Infrastructure. Electric Utilities and Infrastructure uses coal, hydroelectric, natural gas, oil, renewable generation and nuclear fuel to generate electricity, thereby maintaining a diverse fuel mix that helps mitigate the impact of cost increases in any one fuel. Due to the associated regulatory treatment and the method allowed for recovery, changes in fuel costs from year to year have no material impact on operating results of Electric Utilities and Infrastructure, unless a commission finds a portion of such costs to have been imprudent. However, delays between the expenditure for fuel costs and recovery from customers can adversely impact the timing of cash flows of Electric Utilities and Infrastructure.

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PART I

The table below reflects significant electric rate case applications approved and effective in the past three years or applications currently pending approval.

	Regulatory Body	Annual Increase (Decrease) (in millions)	Return on Equity	Equity Component of Capital Structure	Effective Date
Approved Rate Cases:					
Duke Energy Carolinas 2018 South Carolina Rate Case	PSCSC	\$ 45	9.5%	53%	6/1/2019
Duke Energy Progress 2018 South Carolina Rate Case	PSCSC	29	9.5%	53%	6/1/2019
Duke Energy Ohio 2017 Ohio Electric Rate Case	PUCO	(19)	9.84%	50.75%	1/2/2019
Duke Energy Carolinas 2017 North Carolina Rate Case	NCUC	(73)	9.9%	52%	8/1/2018
Duke Energy Kentucky 2017 Kentucky Electric Rate Case	KPSC	8	9.725%	49%	5/1/2018
Duke Energy Progress 2017 North Carolina Rate Case	NCUC	151	9.9%	52%	3/16/2018
Duke Energy Progress 2016 South Carolina Rate Case	PSCSC	(a)	10.1%	53%	1/1/2017
Pending Rate Cases:					
Duke Energy Carolinas 2019 North Carolina Rate Case	NCUC	\$ 291	10.3%	53%	8/1/2020
Duke Energy Progress 2019 North Carolina Rate Case	NCUC	464	10.3%	53%	9/1/2020
Duke Energy Kentucky 2019 Kentucky Electric Rate Case	KPSC	46	9.8%	48.2%	Q2 2020
Duke Energy Indiana 2019 Indiana Rate Case	IURC	(b)	10.4%	53%	mid 2020

(a) An increase of approximately \$38 million in revenues was effective January 1, 2017, and an additional increase of approximately \$19 million in revenues was effective January 1, 2018.

(b) Requests an increase of annualized retail revenues of \$352 million beginning in July 2020, and an additional \$44 million beginning in April 2021, which include the impacts of the Utility Receipt Tax.

For more information on rate matters and other regulatory proceedings, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

Federal

The FERC approves Electric Utilities and Infrastructure's cost-based rates for electric sales to certain power and transmission wholesale customers. Regulations of FERC and the state electric utility commissions govern access to regulated electric and other data by nonregulated entities and services provided between regulated and nonregulated energy affiliates. These regulations affect the activities of nonregulated affiliates with Electric Utilities and Infrastructure.

RTOs. PJM and MISO are the ISOs and FERC-approved RTOs for the regions in which Duke Energy Ohio and Duke Energy Indiana operate. PJM and MISO operate energy, capacity and other markets, and control the day-to-day operations of bulk power systems through central dispatch.

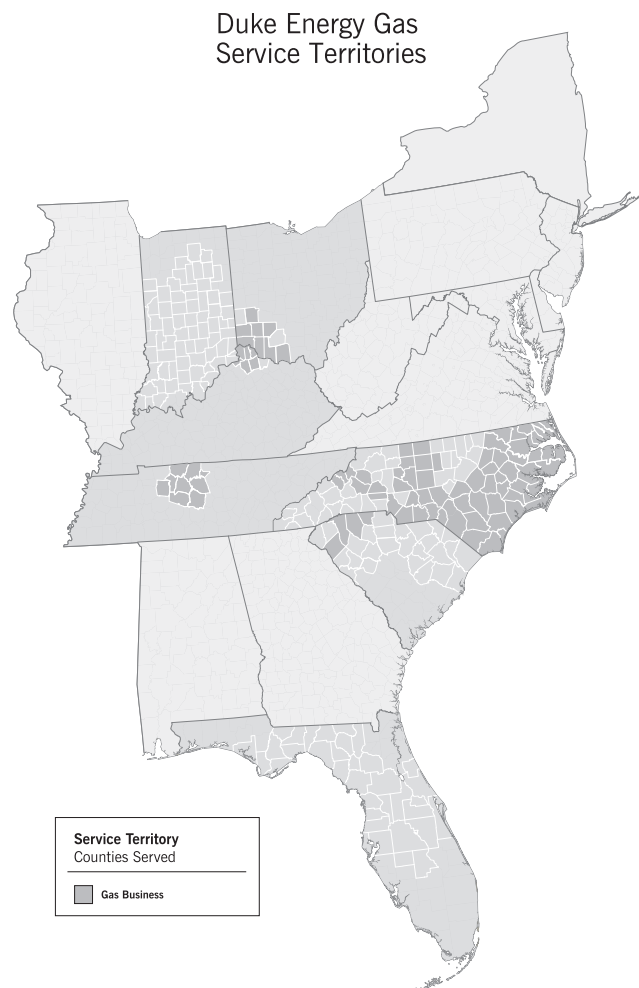
Duke Energy Ohio is a member of PJM and Duke Energy Indiana is a member of MISO. Transmission owners in these RTOs have turned over control of their transmission facilities and their transmission systems are currently under the dispatch control of the RTOs. Transmission service is provided on a regionwide, open-access basis using the transmission facilities of the RTO members at rates based on the costs of transmission service.

Environmental. Electric Utilities and Infrastructure is subject to the jurisdiction of the EPA and state and local environmental agencies. For a discussion of environmental regulation, see "Environmental Matters" in this section. See the "Other Matters" section of Management's Discussion and Analysis for a discussion about potential Global Climate Change legislation and other EPA regulations under development and the potential impacts such legislation and regulation could have on Duke Energy's operations.

GAS UTILITIES AND INFRASTRUCTURE

Gas Utilities and Infrastructure conducts natural gas operations primarily through the regulated public utilities of Piedmont, Duke Energy Ohio and Duke Energy Kentucky. The natural gas operations are subject to the rules and regulations of the NCUC, PSCSC, PUCO, KPSC, TPUC, PHMSA and the FERC. Gas Utilities and Infrastructure serves residential, commercial, industrial and power generation natural gas customers, including customers served by municipalities who are wholesale customers. Gas Utilities and Infrastructure has over 1.6 million customers, including 1.1 million customers located in North Carolina, South Carolina and Tennessee, and an additional 535,000 customers located within southwestern Ohio and northern Kentucky. In the Carolinas, Ohio and Kentucky,

the service areas are comprised of numerous cities, towns and communities. In Tennessee, the service area is the metropolitan area of Nashville. The following map shows the service territory and investments in operating and proposed midstream properties for Gas Utilities and Infrastructure as of December 31, 2019.



PART I

The number of residential, commercial and industrial customers within the Gas Utilities and Infrastructure service territory is expected to increase over time. Average usage per residential customer is expected to remain flat or decline for the foreseeable future; however, decoupled rates in North Carolina and various rate design mechanisms in other jurisdictions partially mitigate the impact of the declining usage per customer on overall profitability.

Gas Utilities and Infrastructure also owns, operates and has investments in various pipeline transmission and natural gas storage facilities.

Natural Gas for Retail Distribution

Gas Utilities and Infrastructure is responsible for the distribution of natural gas to retail customers in its North Carolina, South Carolina, Tennessee, Ohio and Kentucky service territories. Gas Utilities and Infrastructure's natural gas procurement strategy is to contract primarily with major and independent producers and marketers for natural gas supply. It also purchases a diverse portfolio of transportation and storage service from interstate pipelines. This strategy allows Gas Utilities and Infrastructure to assure reliable natural gas supply and transportation for its firm customers during peak winter conditions. When firm pipeline services or contracted natural gas supplies are temporarily not needed due to market demand fluctuations, Gas Utilities and Infrastructure may release these services and supplies in the secondary market under FERC-approved capacity release provisions or make wholesale secondary market sales. In 2019, firm supply purchase commitment agreements provided 100% of the natural gas supply for both Piedmont and Duke Energy Ohio.

Impact of Weather

Gas Utilities and Infrastructure revenues are generally protected from the impact of weather fluctuations due to the regulatory mechanisms that are available in most service territories. In North Carolina, margin decoupling provides protection from both weather and other usage variations like conservation for residential and commercial customer classes. Margin decoupling provides a set revenue per customer independent of actual usage. In South Carolina, Tennessee and Kentucky, weather normalization adjusts revenues either up or down depending on how much warmer or colder than normal a given month has been. Weather normalization adjustments occur from November through March in South Carolina, from October through April in Tennessee and from November through April in Kentucky. Duke Energy Ohio collects most of its non-fuel revenue through a fixed monthly charge that is not impacted by usage fluctuations that result from weather changes or conservation.

Competition

Gas Utilities and Infrastructure's businesses operate as the sole provider of natural gas service within their retail service territories. Gas Utilities and Infrastructure owns and operates facilities necessary to transport and distribute natural gas. Gas Utilities and Infrastructure earns retail margin on the transmission and distribution of natural gas and not on the cost of the underlying commodity. Services are priced by state commission approved rates designed to include the costs of providing these services and a reasonable return on invested capital. This regulatory policy is intended to provide safe and reliable natural gas service at fair prices.

In residential, commercial and industrial customer markets, natural gas distribution operations compete with other companies that supply energy, primarily electric companies, propane and fuel oil dealers, renewable energy providers and coal companies in relation to sources of energy for electric power plants, as well as nuclear energy. A significant competitive factor is price. Gas Utilities and Infrastructure's primary product competition is with electricity for heating, water heating and cooking. Increases in the price of natural gas or decreases in the price of other energy sources could negatively impact competitive position by decreasing the price benefits of natural gas to the consumer. In the case of industrial customers, such as manufacturing plants, adverse economic or market conditions, including higher natural gas costs, could

cause these customers to suspend business operations or to use alternative sources of energy in favor of energy sources with lower per-unit costs.

Higher natural gas costs or decreases in the price of other energy sources may allow competition from alternative energy sources for applications that have traditionally used natural gas, encouraging some customers to move away from natural gas-fired equipment to equipment fueled by other energy sources. Competition between natural gas and other forms of energy is also based on efficiency, performance, reliability, safety and other non-price factors. Technological improvements in other energy sources and events that impair the public perception of the non-price attributes of natural gas could erode our competitive advantage. These factors in turn could decrease the demand for natural gas, impair our ability to attract new customers and cause existing customers to switch to other forms of energy or to bypass our systems in favor of alternative competitive sources. This could result in slow or no customer growth and could cause customers to reduce or cease using our product, thereby reducing our ability to make capital expenditures and otherwise grow our business, adversely affecting our earnings.

Pipeline and Storage Investments

Duke Energy, through its Gas Utilities and Infrastructure segment, is a 47% equity member of ACP, which plans to build and own the proposed ACP pipeline, an approximately 600-mile interstate natural gas pipeline, regulated by FERC. The ACP pipeline is intended to transport diverse natural gas supplies into southeastern markets. Duke Energy Carolinas, Duke Energy Progress and Piedmont, among others, will be customers of ACP. ACP expects mechanical completion of the full project in late 2021 with in-service likely in the first half of 2022. Abnormal weather, work delays (including delays due to judicial or regulatory action) and other conditions may result in cost or schedule modifications, a suspension of AFUDC for ACP and/or impairment charges potentially material to Duke Energy's cash flows, financial position and results of operations. ACP and Duke Energy will continue to consider their options with respect to the foregoing in light of their existing contractual and legal obligations.

Gas Utilities and Infrastructure also has a 7.5% equity ownership interest in Sabal Trail. Sabal Trail is a joint venture that owns the Sabal Trail Natural Gas Pipeline (Sabal Trail pipeline) to transport natural gas to Florida, regulated by FERC. The Sabal Trail phase one mainline was placed into service in July 2017 and traverses Alabama, Georgia and Florida. The remaining lateral line to the Duke Energy Florida's Citrus County CC was placed into service in March 2018. In May 2019, construction activities began as planned on Phase II of Sabal Trail. Phase II will add approximately 200,000 Dth of capacity to the Sabal Trail pipeline and is expected to achieve in-service in May 2020.

Gas Utilities and Infrastructure had a 24% equity ownership interest in Constitution, an interstate pipeline development company formed to develop, construct, own and operate a 124-mile natural gas pipeline and related facilities, regulated by FERC. Constitution was slated to transport natural gas supplies from the Marcellus supply region in northern Pennsylvania to major northeastern markets. As of February 5, 2020, the Constitution partners formally resolved to initiate the dissolution of Constitution, and to terminate the Constitution Pipeline project.

Duke Energy, through its Gas Utilities and Infrastructure segment, has a 21.49% equity ownership interest in Cardinal, an intrastate pipeline located in North Carolina regulated by the NCUC, a 45% equity ownership in Pine Needle, an interstate liquefied natural gas storage facility located in North Carolina and a 50% equity ownership interest in Hardy Storage, an underground interstate natural gas storage facility located in Hardy and Hampshire counties in West Virginia. Pine Needle and Hardy Storage are regulated by FERC.

KO Transmission, a wholly owned subsidiary of Duke Energy Ohio, is an interstate pipeline company engaged in the business of transporting natural gas and is subject to the rules and regulations of FERC. KO Transmission's 90-mile pipeline supplies natural gas to Duke Energy Ohio and interconnects with the Columbia Gulf Transmission pipeline and Tennessee Gas Pipeline. An approximately 70-mile portion of KO Transmission's pipeline facilities is co-owned by Columbia Gas Transmission Corporation.

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Step 13 2021

PART I

See Notes 4, 13 and 18 to the Consolidated Financial Statements, "Regulatory Matters," "Investments in Unconsolidated Affiliates" and "Variable Interest Entities," respectively, for further information on Duke Energy's pipeline investments.

Inventory

Gas Utilities and Infrastructure must maintain adequate natural gas inventory in order to provide reliable delivery to customers. As of December 31, 2019, the inventory balance for Gas Utilities and Infrastructure was \$111 million. For more information on inventory, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

Regulation

State

The state gas utility commissions approve rates for Duke Energy's retail natural gas service within their respective states. The state gas utility commissions, to varying degrees, have authority over the construction and operation of Gas Utilities and Infrastructure's natural gas distribution facilities.

The following table summarizes certain components underlying recently approved and effective base rates or rate stabilization filings in the last three years.

	Annual Increase (Decrease) (in millions)	Return on Equity	Equity Component of Capital Structure	Effective Date
Approved Rate Cases:				
Piedmont 2017 South Carolina Rate Stabilization Adjustment Filing	\$ 6	10.2%	53.0%	November 2017
Piedmont 2018 South Carolina Rate Stabilization Adjustment Filing	(14)	10.2%	53.0%	November 2018
Piedmont 2019 South Carolina Rate Stabilization Adjustment Filing	6	9.9%	55.4%	November 2019
Duke Energy Kentucky 2018 Natural Gas Base Rate Case	7	9.7%	50.8%	April 2019
Piedmont 2019 North Carolina Natural Gas Base Rate Case	\$ 109	9.7%	52.0%	November 2019

Gas Utilities and Infrastructure has IMR mechanisms in North Carolina and Tennessee designed to separately track and recover certain costs associated with capital investments incurred to comply with federal pipeline safety and integrity programs, as well as additional state safety and integrity requirements in Tennessee. The following table summarizes information related to recently approved or pending IMR filings.

(in millions)	Cumulative Investment	Annual Revenues	Effective Date
Piedmont 2019 IMR Filing – North Carolina	\$ 109	\$ 11.4	December 2019
Pending Filing:			
Piedmont 2019 IMR Filing – Tennessee	\$ 296.6	\$ 28.1	Expected Effective Date mid 2020

For more information on rate matters and other regulatory proceedings, see Note 4 to the Consolidated Financial Statements, "Regulatory Matters."

Federal

Gas Utilities and Infrastructure is subject to various federal regulations, including regulations that are particular to the natural gas industry. These federal regulations include but are not limited to the following:

- Regulations of the FERC affect the certification and siting of new interstate natural gas pipeline projects, the purchase and sale of, the prices paid for, and the terms and conditions of service for the interstate transportation and storage of natural gas.
- Regulations of the PHMSA affect the design, construction, operation, maintenance, integrity, safety and security of natural gas distribution and transmission systems.

CPCNs issued by the state gas utility commissions or other government agencies, as applicable, authorize Gas Utilities and Infrastructure to construct and operate its natural gas distribution facilities and to sell natural gas to retail and wholesale customers. Prior approval from the relevant state gas utility commission is required for Gas Utilities and Infrastructure to issue securities. The underlying concept of utility ratemaking is to set rates at a level that allows the utility to collect revenues equal to its cost of providing service plus a reasonable rate of return on its invested capital, including equity.

In addition to amounts collected from customers through approved base rates, each of the state gas utility commissions allow recovery of certain costs through various cost-recovery clauses to the extent the respective commission determines in periodic hearings that such costs, including any past over- or under-recovered costs, are prudent.

Natural gas costs are eligible for recovery by Gas Utilities and Infrastructure. Due to the associated regulatory treatment and the method allowed for recovery, changes in natural gas costs from year to year have no material impact on operating results of Gas Utilities and Infrastructure, unless a commission finds a portion of such costs to have not been prudent. However, delays between the expenditure for natural gas and recovery from customers can adversely impact the timing of cash flows of Gas Utilities and Infrastructure.

- Regulations of the EPA relate to the environment including proposed air emissions regulations that would expand to include emissions of methane.

Regulations of the FERC and the state gas utility commissions govern access to regulated natural gas and other data by nonregulated entities and services provided between regulated and nonregulated energy affiliates. These regulations affect the activities of nonregulated affiliates with Gas Utilities and Infrastructure.

Environmental

Gas Utilities and Infrastructure is subject to the jurisdiction of the EPA and state and local environmental agencies. For a discussion of environmental regulation, see "Environmental Matters" in this section. See "Other Matters" section of Management's Discussion and Analysis for a discussion about potential Global Climate Change legislation and other EPA regulations under development and the potential impacts such legislation and regulation could have on Duke Energy's operations.

PART I

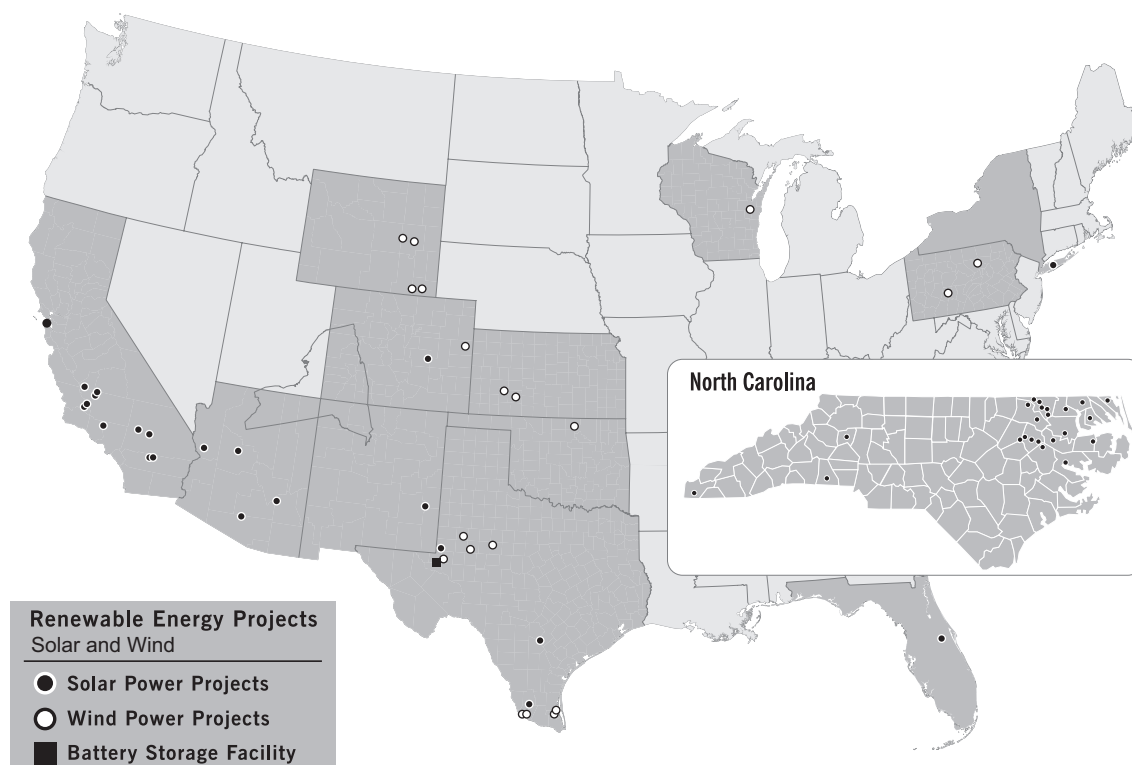
COMMERCIAL RENEWABLES

Commercial Renewables primarily acquires, develops, builds, operates and owns wind and solar renewable generation throughout the continental U.S. The portfolio includes nonregulated renewable energy and energy storage businesses. On April 24, 2019, Duke Energy executed an agreement to sell a minority interest in a portion of certain renewable assets. The sale closed on September 6, 2019. See Note 2 to the Consolidated Financial Statements, "Acquisitions and Dispositions," for additional information.

Commercial Renewables' renewable energy includes utility-scale wind and solar generation assets, distributed solar generation assets, distributed fuel

cell assets and a battery storage project, which total 2,282 MW across 19 states from 22 wind facilities, 126 solar projects, 11 fuel cell locations and one battery storage facility. Revenues are primarily generated by selling the power produced from renewable generation through long-term contracts to utilities, electric cooperatives, municipalities and corporate customers. In most instances, these customers have obligations under state-mandated renewable energy portfolio standards or similar state or local renewable energy goals. Energy and renewable energy credits generated by wind and solar projects are generally sold at contractual prices. The following map shows the locations of renewable generation facilities of which Commercial Renewables has an ownership interest as of December 31, 2019.

Commercial Renewables Portfolio



As eligible projects are placed in service, Commercial Renewables recognizes either PTCs as power is generated by wind projects over 10 years or ITCs when the renewable solar, fuel cells or wind project achieves commercial availability. ITCs are recognized over the useful life of the asset as a reduction to depreciation expense. Benefits of the tax basis adjustment due to the ITC are recognized in income in the year of commercial availability. The ITC is being phased down from the current 2019 rate of 30% to a permanent 10% rate if construction begins after 2021. The PTC is being phased out and wind turbines will earn 10 years of PTCs at phased-out rates if construction began in 2017 through 2020.

As part of its growth strategy, Commercial Renewables has expanded its investment portfolio through the addition of distributed solar companies and projects, energy storage systems and energy management solutions specifically tailored to commercial businesses. These investments include REC Solar, a California-based provider of solar installations for retail, manufacturing, agriculture, technology, government and nonprofit customers across the U.S. and Phoenix Energy Technologies Inc., a California-based provider of enterprise energy management and information software to commercial businesses.

Commercial Renewables has entered into agreements for certain of its generating assets that are held by LLCs whose members include a noncontrolling tax equity investor. The allocation of tax attributes and cash flows to the tax equity investor are governed by the provisions of the LLC

agreements. The GAAP earnings allocations to the tax equity investors can result in variability in earnings to Duke Energy. As part of its growth strategy, Commercial Renewables expects to enter into these arrangements for future generating assets.

For additional information on Commercial Renewables' generation facilities, see Item 2, "Properties."

Market Environment and Competition

Commercial Renewables primarily competes for wholesale contracts for the generation and sale of electricity from generation assets it either develops or acquires and owns. The market price of commodities and services, along with the quality and reliability of services provided, drive competition in the wholesale energy business. The number and type of competitors may vary based on location, generation type and project size. Commercial Renewables' main competitors include other nonregulated generators and wholesale power providers.

Sources of Electricity

Commercial Renewables relies on wind, solar, fuel cells and battery resources for its generation of electric energy.

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Step 13 2021

PART I

Regulation

Commercial Renewables is subject to regulation at the federal level, primarily from the FERC. Regulations of the FERC govern access to regulated market information by nonregulated entities and services provided between regulated and nonregulated utilities.

OTHER

The remainder of Duke Energy's operations is presented as Other. While it is not a business segment, Other primarily includes interest expense on holding company debt, unallocated corporate costs including costs to achieve strategic acquisitions, amounts related to certain companywide initiatives and contributions made to the Duke Energy Foundation. Other also includes Bison and an investment in NMC.

The Duke Energy Foundation is a nonprofit organization funded by Duke Energy shareholders that makes charitable contributions to selected nonprofits and government subdivisions.

Bison, a wholly owned subsidiary of Duke Energy, is a captive insurance company with the principal activity of providing Duke Energy subsidiaries with

indemnification for financial losses primarily related to property, workers' compensation and general liability.

Duke Energy owns a 17.5% equity interest in NMC. The joint venture company has production facilities in Jubail, Saudi Arabia, where it manufactures certain petrochemicals and plastics. The company annually produces approximately 1 million metric tons each of MTBE and methanol and has the capacity to produce 50,000 metric tons of polyacetal. The main feedstocks to produce these products are natural gas and butane. Duke Energy records the investment activity of NMC using the equity method of accounting and retains 25% of NMC's board of directors' representation and voting rights.

Employees

On December 31, 2019, Duke Energy had a total of 28,793 employees on its payroll. The total includes 5,399 employees who are represented by labor unions under various collective bargaining agreements that generally cover wages, benefits, working practices, and other terms and conditions of employment.

Information about Our Executive Officers

The following table sets forth the individuals who currently serve as executive officers. Executive officers serve until their successors are duly elected or appointed.

Name	Age ^(a)	Current and Recent Positions Held
Lynn J. Good	60	Chairman, President and Chief Executive Officer. Ms. Good was elected as Chairman of the Board, effective January 1, 2016, and assumed her position as President and Chief Executive Officer in July 2013. Prior to that, she served as Executive Vice President and Chief Financial Officer since 2009.
Steven K. Young	61	Executive Vice President and Chief Financial Officer. Mr. Young assumed his current position in August 2013. Prior to that, he served as Vice President, Chief Accounting Officer and Controller, assuming the role of Chief Accounting Officer in July 2012 and the role of Controller in December 2006.
Melissa H. Anderson	55	Executive Vice President and Chief Human Resources Officer. Ms. Anderson assumed her position in January 2015 and had responsibility for the Administration services organization from May 2016 until October 2019. Prior to joining Duke Energy, she served as Senior Vice President of Human Resources at Domtar Inc. since 2010.
Douglas F. Esamann	62	Executive Vice President, Energy Solutions and President, Midwest/Florida Regions and Natural Gas Business. Mr. Esamann assumed his current position in October 2019, was Executive Vice President, Energy Solutions and President, Midwest and Florida Regions since September 2016 and was Executive Vice President and President, Midwest and Florida Regions since June 2015. Prior to that, he served as President, Duke Energy Indiana since November 2010.
Kodwo Ghartey-Tagoe	56	Executive Vice President and Chief Legal Officer. Mr. Ghartey-Tagoe assumed the position of Executive Vice President and Chief Legal Officer in October 2019 after serving as President, South Carolina since 2017. Mr. Ghartey-Tagoe joined Duke Energy in 2002 and has held numerous management positions in Duke Energy's Legal Department, including Duke Energy's Senior Vice President of State and Federal Regulatory Legal Support.
Dwight L. Jacobs	54	Senior Vice President, Chief Accounting Officer, Tax and Controller. Mr. Jacobs has served as Senior Vice President, Chief Accounting Officer, Tax and Controller since January 1, 2019. Prior to that, he served as Senior Vice President, Chief Accounting Officer and Controller since June 1, 2018. Prior to that, he served as Senior Vice President, Financial Planning & Analysis since February 2016 and as Chief Risk Officer since July 2014. Prior to his role as Chief Risk Officer, Mr. Jacobs served as Vice President, Rates & Regulatory Strategy since May 2010.
Dhiaa M. Jamil	63	Executive Vice President and Chief Operating Officer. Mr. Jamil assumed the role of Chief Operating Officer in May 2016. Prior to his current position, he held the title Executive Vice President and President, Regulated Generation and Transmission since June 2015. Prior to that, he served as Executive Vice President and President, Regulated Generation since August 2014. He served as Executive Vice President and President of Duke Energy Nuclear from March 2013 to August 2014, and was Chief Nuclear Officer from February 2008 to February 2013.
Julia S. Janson	54	Executive Vice President, External Affairs and President, Carolinas Region. Ms. Janson has held the position of Executive Vice President, External Affairs and President, Carolinas Region since October 2019. Prior to that, she held the position of Executive Vice President, External Affairs and Chief Legal Officer since November 2018. She originally assumed the position of Executive Vice President, Chief Legal Officer and Corporate Secretary in December 2012, and then assumed the responsibilities for External Affairs in February 2016.
Brian D. Savoy	44	Senior Vice President, Chief Transformation and Administrative Officer. Mr. Savoy assumed his current position in October 2019. Prior to that, he served as Senior Vice President, Business Transformation and Technology since May 2016; Senior Vice President, Controller and Chief Accounting Officer from September 2013 to May 2016; Director, Forecasting and Analysis from 2009 to September 2013; and Vice President and Controller of the Commercial Power segment from 2006 to 2009.
Henry K. Sideris	49	Senior Vice President, Customer Experience and Services. Mr. Sideris assumed his current position in October 2019. Prior to that, he served as Senior Vice President and Chief Distribution Officer since June 2018; State President, Florida from January 2017 to June 2018; Senior Vice President of Environmental Health and Safety from August 2014 to January 2017; and Vice President of Power Generations for the Company's Fossil/Hydro Operations in the western portions of North Carolina and South Carolina from July 2012 to August 2014.

(a) The ages of the officers provided are as of December 31, 2019.

PART I

There are no family relationships between any of the executive officers, nor any arrangement or understanding between any executive officer and any other person involved in officer selection.

Environmental Matters

The Duke Energy Registrants are subject to federal, state and local laws and regulations with regard to air and water quality, hazardous and solid waste disposal and other environmental matters. Environmental laws and regulations affecting the Duke Energy Registrants include, but are not limited to:

- The Clean Air Act, as well as state laws and regulations impacting air emissions, including State Implementation Plans related to existing and new national ambient air quality standards for ozone and particulate matter. Owners and/or operators of air emission sources are responsible for obtaining permits and for annual compliance and reporting.
- The CWA, which requires permits for facilities that discharge wastewaters into navigable waters.
- The Comprehensive Environmental Response, Compensation and Liability Act, which can require any individual or entity that currently owns or in the past owned or operated a disposal site, as well as transporters or generators of hazardous substances sent to a disposal site, to share in remediation costs.
- The National Environmental Policy Act, which requires federal agencies to consider potential environmental impacts in their permitting and licensing decisions, including siting approvals.
- Coal Ash Act, as amended, which establishes requirements regarding the use and closure of existing ash basins, the disposal of ash at active coal plants and the handling of surface water and groundwater impacts from ash basins in North Carolina.
- The Solid Waste Disposal Act, as amended by the RCRA, which creates a framework for the proper management of hazardous and nonhazardous solid waste; classifies CCR as nonhazardous waste; and establishes standards for landfill and surface impoundment placement, design, operation and closure, groundwater monitoring, corrective action, and post-closure care.
- The Toxic Substances Control Act, which gives EPA the authority to require reporting, recordkeeping and testing requirements, and to place restrictions relating to chemical substances and/or mixtures, including polychlorinated biphenyls.
- The ACE rule, which will require states to develop CO₂ reduction plans based on efficiency (heat rate) improvements at coal-fired power plants.

For more information on environmental matters, see Notes 5 and 9 to the Consolidated Financial Statements, "Commitments and Contingencies – Environmental" and "Asset Retirement Obligations," respectively, and the "Other Matters" section of Management's Discussion and Analysis. Except as otherwise described in these sections, costs to comply with current federal, state and local provisions regulating the discharge of materials into the environment or other potential costs related to protecting the environment are incorporated into the routine cost structure of our various business segments and are not expected to have a material adverse effect on the competitive position, consolidated results of operations, cash flows or financial position of the Duke Energy Registrants.

The "Other Matters" section of Management's Discussion and Analysis includes an estimate of future capital expenditures required to comply with environmental regulations and a discussion of Global Climate Change including the potential impact of current and future legislation related to GHG emissions on the Duke Energy Registrants' operations. Recently passed and potential future environmental statutes and regulations could have a significant impact on the Duke Energy Registrants' results of operations, cash flows or financial

position. However, if and when such statutes and regulations become effective, the Duke Energy Registrants will seek appropriate regulatory recovery of costs to comply within its regulated operations.

DUKE ENERGY CAROLINAS

Duke Energy Carolinas is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Carolinas' service area covers approximately 24,000 square miles and supplies electric service to 2.7 million residential, commercial and industrial customers. For information about Duke Energy Carolinas' generating facilities, see Item 2, "Properties." Duke Energy Carolinas is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Substantially all of Duke Energy Carolinas' operations are regulated and qualify for regulatory accounting. Duke Energy Carolinas operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

PROGRESS ENERGY

Progress Energy is a public utility holding company primarily engaged in the regulated electric utility business and is subject to regulation by the FERC. Progress Energy conducts operations through its wholly owned subsidiaries, Duke Energy Progress and Duke Energy Florida. When discussing Progress Energy's financial information, it necessarily includes the results of Duke Energy Progress and Duke Energy Florida.

Substantially all of Progress Energy's operations are regulated and qualify for regulatory accounting. Progress Energy operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY PROGRESS

Duke Energy Progress is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Progress' service area covers approximately 29,000 square miles and supplies electric service to approximately 1.6 million residential, commercial and industrial customers. For information about Duke Energy Progress' generating facilities, see Item 2, "Properties." Duke Energy Progress is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Substantially all of Duke Energy Progress' operations are regulated and qualify for regulatory accounting. Duke Energy Progress operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY FLORIDA

Duke Energy Florida is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Florida. Duke Energy Florida's service area covers approximately 13,000 square miles and supplies electric service to approximately 1.8 million residential, commercial and industrial customers. For information about Duke Energy Florida's generating facilities, see Item 2, "Properties." Duke Energy Florida is subject to the regulatory provisions of the FPSC, NRC and FERC.

Substantially all of Duke Energy Florida's operations are regulated and qualify for regulatory accounting. Duke Energy Florida operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

PART I

DUKE ENERGY OHIO

Duke Energy Ohio is a regulated public utility primarily engaged in the transmission and distribution of electricity in portions of Ohio and Kentucky, in the generation and sale of electricity in portions of Kentucky and the transportation and sale of natural gas in portions of Ohio and Kentucky. Duke Energy Ohio also conducts competitive auctions for retail electricity supply in Ohio whereby recovery of the energy price is from retail customers. Operations in Kentucky are conducted through its wholly owned subsidiary, Duke Energy Kentucky. References herein to Duke Energy Ohio include Duke Energy Ohio and its subsidiaries, unless otherwise noted. Duke Energy Ohio is subject to the regulatory provisions of the PUCO, KPSC, PHMSA and FERC.

Duke Energy Ohio's service area covers approximately 3,000 square miles and supplies electric service to approximately 870,000 residential, commercial and industrial customers and provides transmission and distribution services for natural gas to approximately 542,000 customers. For information about Duke Energy Ohio's generating facilities, see Item 2, "Properties."

KO Transmission, a wholly owned subsidiary of Duke Energy Ohio, is an interstate pipeline company engaged in the business of transporting natural gas and is subject to the rules and regulations of FERC. KO Transmission's 90-mile pipeline supplies natural gas to Duke Energy Ohio and interconnects with the Columbia Gulf Transmission pipeline and Tennessee Gas Pipeline. An approximately 70-mile portion of KO Transmission's pipeline facilities is co-owned by Columbia Gas Transmission Corporation.

Substantially all of Duke Energy Ohio's operations are regulated and qualify for regulatory accounting. Duke Energy Ohio has two reportable segments, Electric Utilities and Infrastructure and Gas Utilities and Infrastructure. For additional information on these business segments, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY INDIANA

Duke Energy Indiana is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Indiana. Duke Energy Indiana's service area covers 23,000 square miles and supplies electric service to 850,000 residential, commercial and industrial customers. For information about Duke Energy Indiana's generating facilities, see Item 2, "Properties." Duke Energy Indiana is subject to the regulatory provisions of the IURC and FERC.

Substantially all of Duke Energy Indiana's operations are regulated and qualify for regulatory accounting. Duke Energy Indiana operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

PIEDMONT

Piedmont is a regulated public utility primarily engaged in the distribution of natural gas to over 1 million residential, commercial, industrial and power generation customers in portions of North Carolina, South Carolina and Tennessee, including customers served by municipalities who are wholesale customers. For information about Piedmont's natural gas distribution facilities, see Item 2, "Properties." Piedmont is subject to the regulatory provisions of the NCUC, PSCSC, TPUC, PHMSA and FERC.

Substantially all of Piedmont's operations are regulated and qualify for regulatory accounting. Piedmont operates one reportable business segment, Gas Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 3 to the Consolidated Financial Statements, "Business Segments."

ITEM 1A. RISK FACTORS

In addition to other disclosures within this Form 10-K, including "Management's Discussion and Analysis of Financial Condition and Results of Operations – Matters Impacting Future Results" for each registrant in Item 7, and other documents filed with the SEC from time to time, the following factors should be considered in evaluating Duke Energy and its subsidiaries. Such factors could affect actual results of operations and cause results to differ substantially from those currently expected or sought. Unless otherwise indicated, risk factors discussed below generally relate to risks associated with all of the Duke Energy Registrants. Risks identified at the Subsidiary Registrant level are generally applicable to Duke Energy.

BUSINESS STRATEGY RISKS

Duke Energy's future results could be adversely affected if it is unable to implement its business strategy.

Duke Energy's results of operations depend, in significant part, on the extent to which it can implement its business strategy successfully. Duke Energy's strategy, which includes transforming the customer experience, modernizing the energy grid, generating cleaner energy and working to achieve net-zero carbon emissions by 2050, expanding the natural gas infrastructure, modernizing the regulatory construct and digital transformation, is subject to business, economic and competitive uncertainties and contingencies, many of which are beyond its control. As a consequence, Duke Energy may not be able to fully implement or realize the anticipated results of its strategy.

REGULATORY, LEGISLATIVE AND LEGAL RISKS

The Duke Energy Registrants' regulated utility revenues, earnings and results are dependent on state legislation and regulation that affect electric generation, electric and natural gas transmission, distribution and related activities, which may limit their ability to recover costs.

The Duke Energy Registrants' regulated electric and natural gas utility businesses are regulated on a cost-of-service/rate-of-return basis subject to statutes and regulatory commission rules and procedures of North Carolina, South Carolina, Florida, Ohio, Tennessee, Indiana and Kentucky. If the Duke Energy Registrants' regulated utility earnings exceed the returns established by the state utility commissions, retail electric and natural gas rates may be subject to review and possible reduction by the commissions, which may decrease the Duke Energy Registrants' earnings. Additionally, if regulatory bodies do not allow recovery of costs incurred in providing service, or do not do so on a timely basis, the Duke Energy Registrants' earnings could be negatively impacted.

If legislative and regulatory structures were to evolve in such a way that the Duke Energy Registrants' exclusive rights to serve their regulated customers were eroded, their earnings could be negatively impacted. Federal and state regulations, laws and other efforts designed to promote and expand the use of EE measures and distributed generation technologies, such as private solar and battery storage, in Duke Energy service territories could result in customers leaving the electric distribution system and an increase in customer net energy metering, which allows customers with private solar to receive bill credits for surplus power at the full retail amount. Over time, customer adoption of these technologies and increased EE could result in excess generation resources as well as stranded costs if Duke Energy is not able to fully recover the costs and investment in generation.

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PART I

State regulators have approved various mechanisms to stabilize natural gas utility margins, including margin decoupling in North Carolina and rate stabilization in South Carolina. State regulators have approved other margin stabilizing mechanisms that, for example, allow for recovery of margin losses associated with negotiated transactions designed to retain large volume customers that could use alternative fuels or that may otherwise directly access natural gas supply through their own connection to an interstate pipeline. If regulators decided to discontinue the Duke Energy Registrants' use of tariff mechanisms, it would negatively impact results of operations, financial position and cash flows. In addition, regulatory authorities also review whether natural gas costs are prudently incurred and can disallow the recovery of a portion of natural gas costs that the Duke Energy Registrants seek to recover from customers, which would adversely impact earnings.

The rates that the Duke Energy Registrants' regulated utility businesses are allowed to charge are established by state utility commissions in rate case proceedings, which may limit their ability to recover costs and earn an appropriate return on investment.

The rates that the Duke Energy Registrants' regulated utility business are allowed to charge significantly influences the results of operations, financial position and cash flows of the Duke Energy Registrants. The regulation of the rates that the regulated utility businesses charge customers is determined, in large part, by state utility commissions in rate case proceedings. Negative decisions made by these regulators, or by any court on appeal of a rate case proceeding, could have a material adverse effect on the Duke Energy Registrants' results of operations, financial position or cash flows and affect the ability of the Duke Energy Registrants to recover costs and an appropriate return on the significant infrastructure investments being made.

Deregulation or restructuring in the electric industry may result in increased competition and unrecovered costs that could adversely affect the Duke Energy Registrants' results of operations, financial position or cash flows and their utility businesses.

Increased competition resulting from deregulation or restructuring legislation could have a significant adverse impact on the Duke Energy Registrants' results of operations, financial position or cash flows. If the retail jurisdictions served by the Duke Energy Registrants become subject to deregulation, the impairment of assets, loss of retail customers, lower profit margins or increased costs of capital, and recovery of stranded costs could have a significant adverse financial impact on the Duke Energy Registrants. Stranded costs primarily include the generation assets of the Duke Energy Registrants whose value in a competitive marketplace may be less than their current book value, as well as above-market purchased power commitments from QFs from whom the Duke Energy Registrants are legally obligated to purchase energy at an avoided cost rate under PURPA. The Duke Energy Registrants cannot predict the extent and timing of entry by additional competitors into the electric markets. The Duke Energy Registrants cannot predict if or when they will be subject to changes in legislation or regulation, nor can they predict the impact of these changes on their results of operations, financial position or cash flows.

The Duke Energy Registrants' businesses are subject to extensive federal regulation and a wide variety of laws and governmental policies, including taxes, that may change over time in ways that affect operations and costs.

The Duke Energy Registrants are subject to regulations under a wide variety of U.S. federal and state regulations and policies, including by FERC, NRC, EPA and various other federal agencies as well as the North American Electric Reliability Corporation. Regulation affects almost every aspect of the Duke Energy Registrants' businesses, including, among other things, their ability to: take fundamental business management actions; determine the terms and rates of transmission and distribution services; make acquisitions; issue equity

or debt securities; engage in transactions with other subsidiaries and affiliates; and pay dividends upstream to the Duke Energy Registrants. Changes to federal regulations are continuous and ongoing. There can be no assurance that laws, regulations and policies will not be changed in ways that result in material modifications of business models and objectives or affect returns on investment by restricting activities and products, subjecting them to escalating costs, causing delays, or prohibiting them outright.

The Duke Energy Registrants are subject to numerous environmental laws and regulations requiring significant capital expenditures that can increase the cost of operations, and which may impact or limit business plans, or cause exposure to environmental liabilities.

The Duke Energy Registrants are subject to numerous environmental laws and regulations affecting many aspects of their present and future operations, including CCRs, air emissions, water quality, wastewater discharges, solid waste and hazardous waste. These laws and regulations can result in increased capital, operating and other costs. These laws and regulations generally require the Duke Energy Registrants to obtain and comply with a wide variety of environmental licenses, permits, inspections and other approvals. Compliance with environmental laws and regulations can require significant expenditures, including expenditures for cleanup costs and damages arising from contaminated properties. Failure to comply with environmental regulations may result in the imposition of fines, penalties and injunctive measures affecting operating assets. The steps the Duke Energy Registrants could be required to take to ensure their facilities are in compliance could be prohibitively expensive. As a result, the Duke Energy Registrants may be required to shut down or alter the operation of their facilities, which may cause the Duke Energy Registrants to incur losses. Further, the Duke Energy Registrants may not be successful in recovering capital and operating costs incurred to comply with new environmental regulations through existing regulatory rate structures and their contracts with customers. Also, the Duke Energy Registrants may not be able to obtain or maintain from time to time all required environmental regulatory approvals for their operating assets or development projects. Delays in obtaining any required environmental regulatory approvals, failure to obtain and comply with them or changes in environmental laws or regulations to more stringent compliance levels could result in additional costs of operation for existing facilities or development of new facilities being prevented, delayed or subject to additional costs. Although it is not expected that the costs to comply with current environmental regulations will have a material adverse effect on the Duke Energy Registrants' results of operations, financial position and cash flows due to regulatory cost recovery, the Duke Energy Registrants are at risk that the costs of complying with environmental regulations in the future will have such an effect.

The EPA has enacted or proposed federal regulations governing the management of cooling water intake structures, wastewater and CO₂ emissions. These regulations may require the Duke Energy Registrants to make additional capital expenditures and increase operating and maintenance costs.

Duke Energy Carolinas and Duke Energy Progress are subject to the terms of probation set out in judgments of the U.S. District Court for the Eastern District of North Carolina on May 14, 2015. The judgments are based on events and activities that took place prior to 2015. The terms of probation require the companies to comply with certain environmental regulatory obligations related to coal ash and subject the two companies to oversight by a Court Appointed Monitor. If Duke Energy Carolinas or Duke Energy Progress failed to comply with certain coal ash-related environmental laws and regulations or otherwise violated the terms of probation, it could result in the imposition of additional penalties, including the revocation of probation and re-prosecution of the underlying violations. Although it is not expected that the companies will violate the terms of probation or that additional material penalties would occur, a significant violation of probation could have a material adverse effect on the Duke Energy Registrants' reputation, results of operations, financial position and cash flows.

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PART I

The Duke Energy Registrants' operations, capital expenditures and financial results may be affected by regulatory changes related to the impacts of global climate change.

There is continued concern, both nationally and internationally, about climate change. The EPA and state regulators may adopt and implement regulations to restrict emissions of GHGs to address global climate change. Increased regulation of GHG emissions could impose significant additional costs on the Duke Energy Registrants' operations, their suppliers and customers. Regulatory changes could also result in generation facilities to be retired early and result in stranded costs if Duke Energy is not able to fully recover the costs and investment in generation.

OPERATIONAL RISKS

The Duke Energy Registrants' results of operations may be negatively affected by overall market, economic and other conditions that are beyond their control.

Sustained downturns or sluggishness in the economy generally affect the markets in which the Duke Energy Registrants operate and negatively influence operations. Declines in demand for electricity or natural gas as a result of economic downturns in the Duke Energy Registrants' regulated service territories will reduce overall sales and lessen cash flows, especially as industrial customers reduce production and, therefore, consumption of electricity and the use of natural gas. Although the Duke Energy Registrants' regulated electric and natural gas businesses are subject to regulated allowable rates of return and recovery of certain costs, such as fuel and purchased natural gas costs, under periodic adjustment clauses, overall declines in electricity or natural gas sold as a result of economic downturn or recession could reduce revenues and cash flows, thereby diminishing results of operations. Additionally, prolonged economic downturns that negatively impact the Duke Energy Registrants' results of operations and cash flows could result in future material impairment charges to write-down the carrying value of certain assets, including goodwill, to their respective fair values.

The Duke Energy Registrants also sell electricity into the spot market or other competitive power markets on a contractual basis. With respect to such transactions, the Duke Energy Registrants are not guaranteed any rate of return on their capital investments through mandated rates, and revenues and results of operations are likely to depend, in large part, upon prevailing market prices. These market prices may fluctuate substantially over relatively short periods of time and could reduce the Duke Energy Registrants' revenues and margins, thereby diminishing results of operations.

Factors that could impact sales volumes, generation of electricity and market prices at which the Duke Energy Registrants are able to sell electricity and natural gas are as follows:

- weather conditions, including abnormally mild winter or summer weather that cause lower energy or natural gas usage for heating or cooling purposes, as applicable, and periods of low rainfall that decrease the ability to operate facilities in an economical manner;
- supply of and demand for energy commodities;
- transmission or transportation constraints or inefficiencies that impact nonregulated energy operations;
- availability of competitively priced alternative energy sources, which are preferred by some customers over electricity produced from coal, nuclear or natural gas plants, and customer usage of energy-efficient equipment that reduces energy demand;
- natural gas, crude oil and refined products production levels and prices;

- ability to procure satisfactory levels of inventory, such as coal, natural gas and uranium; and
- capacity and transmission service into, or out of, the Duke Energy Registrants' markets.

Natural disasters or operational accidents may adversely affect the Duke Energy Registrants' operating results.

Natural disasters or other operational accidents within the company or industry (such as forest fires, earthquakes, hurricanes or natural gas transmission pipeline explosions) could have direct or indirect impacts to the Duke Energy Registrants or to key contractors and suppliers. Further, the generation of electricity and the transportation and storage of natural gas involve inherent operating risks that may result in accidents involving serious injury or loss of life, environmental damage or property damage. Such events could impact the Duke Energy Registrants through changes to policies, laws and regulations whose compliance costs have a significant impact on the Duke Energy Registrants' results of operations, financial position and cash flows. In addition, if a serious operational accident were to occur, existing insurance policies may not cover all of the potential exposures or the actual amount of loss incurred. Any losses not covered by insurance, or any increases in the cost of applicable insurance as a result of such accident, could have a material adverse effect on the results of operations, financial position, cash flows and reputation of the Duke Energy Registrants.

The reputation and financial condition of the Duke Energy Registrants could be negatively impacted due to their obligations to comply with federal and state regulations, laws, and other legal requirements that govern the operations, assessments, storage, closure, remediation, disposal and monitoring relating to CCR, the high costs and new rate impacts associated with implementing these new CCR-related requirements and the strategies and methods necessary to implement these requirements in compliance with these legal obligations.

As a result of electricity produced for decades at coal-fired power plants, the Duke Energy Registrants manage large amounts of CCR that are primarily stored in dry storage within landfills or combined with water in other surface impoundments, all in compliance with applicable regulatory requirements. A CCR-related operational incident could have a material adverse impact on the reputation and results of operations, financial position and cash flows of the Duke Energy Registrants.

During 2015, EPA regulations were enacted related to the management of CCR from power plants. These regulations classify CCR as nonhazardous waste under the RCRA and apply to electric generating sites with new and existing landfills and, new and existing surface impoundments, and establish requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring, protection and remedial procedures and other operational and reporting procedures for the disposal and management of CCR. In addition to the federal regulations, CCR landfills and surface impoundments will continue to be regulated by existing state laws, regulations and permits, as well as additional legal requirements that may be imposed in the future, such as the settlement reached with the NCDEQ to excavate seven of the nine remaining coal ash basins in North Carolina, and partially excavate the remaining two. These federal and state laws, regulations and other legal requirements may require or result in additional expenditures, including increased operating and maintenance costs, which could affect the results of operations, financial position and cash flows of the Duke Energy Registrants. The Duke Energy Registrants will continue to seek full cost recovery for expenditures through the normal ratemaking process with state and federal utility commissions, who

PART I

permit recovery in rates of necessary and prudently incurred costs associated with the Duke Energy Registrants' regulated operations, and through other wholesale contracts with terms that contemplate recovery of such costs, although there is no guarantee of full cost recovery. In addition, the timing for and amount of recovery of such costs could have a material adverse impact on Duke Energy's cash flows.

The Duke Energy Registrants have recognized significant AROs related to these CCR-related requirements. Closure activities began in 2015 at the four sites specified as high-priority by the Coal Ash Act and at the W.S. Lee Steam Station site in South Carolina in connection with other legal requirements. Excavation at these sites involves movement of CCR materials to off-site locations for use as structural fill, to appropriate engineered off-site or on-site lined landfills or conversion of the ash for beneficial use. Duke Energy has completed excavation of coal ash regulated by the Coal Ash Act at three of the four high priority sites. At other sites, planning and closure methods have been studied and factored into the estimated retirement and management costs, and closure activities have commenced. As the closure and CCR management work progresses and final closure plans and corrective action measures are developed and approved at each site, the scope and complexity of work and the amount of CCR material could be greater than estimates and could, therefore, materially increase compliance expenditures and rate impacts.

The Duke Energy Registrants' results of operations, financial position and cash flows may be negatively affected by a lack of growth or slower growth in the number of customers, or decline in customer demand or number of customers.

Growth in customer accounts and growth of customer usage each directly influence demand for electricity and natural gas and the need for additional power generation and delivery facilities. Customer growth and customer usage are affected by several factors outside the control of the Duke Energy Registrants, such as mandated EE measures, demand-side management goals, distributed generation resources and economic and demographic conditions, such as population changes, job and income growth, housing starts, new business formation and the overall level of economic activity.

Certain regulatory and legislative bodies have introduced or are considering requirements and/or incentives to reduce energy consumption by certain dates. Additionally, technological advances driven by federal laws mandating new levels of EE in end-use electric devices or other improvements in or applications of technology could lead to declines in per capita energy consumption.

Advances in distributed generation technologies that produce power, including fuel cells, microturbines, wind turbines and solar cells, may reduce the cost of alternative methods of producing power to a level competitive with central power station electric production utilized by the Duke Energy Registrants.

Some or all of these factors could result in a lack of growth or decline in customer demand for electricity or number of customers and may cause the failure of the Duke Energy Registrants to fully realize anticipated benefits from significant capital investments and expenditures, which could have a material adverse effect on their results of operations, financial position and cash flows.

Furthermore, the Duke Energy Registrants currently have EE riders in place to recover the cost of EE programs in North Carolina, South Carolina, Florida, Indiana, Ohio and Kentucky. Should the Duke Energy Registrants be required to invest in conservation measures that result in reduced sales from effective conservation, regulatory lag in adjusting rates for the impact of these measures could have a negative financial impact.

The Duke Energy Registrants' operating results may fluctuate on a seasonal and quarterly basis and can be negatively affected by changes in weather conditions and severe weather, including extreme weather conditions associated with climate change.

Electric power generation and natural gas distribution are generally seasonal businesses. In most parts of the U.S., the demand for power peaks during the warmer summer months, with market prices also typically peaking at that time. In other areas, demand for power peaks during the winter. Demand for natural gas peaks during the winter months. Further, extreme weather conditions such as hurricanes, droughts, heat waves, winter storms and severe weather associated with climate change could cause these seasonal fluctuations to be more pronounced. As a result, the overall operating results of the Duke Energy Registrants' businesses may fluctuate substantially on a seasonal and quarterly basis and thus make period-to-period comparison less relevant.

Sustained severe drought conditions could impact generation by hydroelectric plants, as well as fossil and nuclear plant operations, as these facilities use water for cooling purposes and for the operation of environmental compliance equipment. Furthermore, destruction caused by severe weather events, such as hurricanes, tornadoes, severe thunderstorms, snow and ice storms, can result in lost operating revenues due to outages, property damage, including downed transmission and distribution lines, and additional and unexpected expenses to mitigate storm damage. The cost of storm restoration efforts may not be fully recoverable through the regulatory process.

The Duke Energy Registrants' sales may decrease if they are unable to gain adequate, reliable and affordable access to transmission assets.

The Duke Energy Registrants depend on transmission and distribution facilities owned and operated by utilities and other energy companies to deliver electricity sold to the wholesale market. The FERC's power transmission regulations require wholesale electric transmission services to be offered on an open-access, non-discriminatory basis. If transmission is disrupted, or if transmission capacity is inadequate, the Duke Energy Registrants' ability to sell and deliver products may be hindered.

The different regional power markets have changing regulatory structures, which could affect growth and performance in these regions. In addition, the ISOs who oversee the transmission systems in regional power markets have imposed in the past, and may impose in the future, price limitations and other mechanisms to address volatility in the power markets. These types of price limitations and other mechanisms may adversely impact the profitability of the Duke Energy Registrants' wholesale power marketing business.

Duke Energy may be unable to complete necessary or desirable pipeline expansion or infrastructure development or maintenance projects, which may prevent the Duke Energy Registrants from expanding the natural gas business.

In order to serve current or new natural gas customers or expand the service to existing customers, the Duke Energy Registrants need to maintain, expand or upgrade distribution, transmission and/or storage infrastructure, including laying new pipeline and building compressor stations. Duke Energy Registrants have made significant investments in pipeline development projects, which are being operated and constructed by third-party joint venture partners. The Duke Energy Registrants must rely on their third-party joint venture partners for proper construction management of the projects and are dependent upon contractors for the successful and timely completion of the projects. In addition, various factors, such as the inability to obtain required approval from local, state and/or federal regulatory and governmental bodies, public opposition to projects, adverse litigation rulings, inability to obtain adequate financing, competition for labor and materials, construction delays, cost overruns and the inability to negotiate acceptable agreements relating to rights of way, construction or other material development components, may prevent or delay the completion of projects or materially increase the cost of such projects, which could have a material adverse effect on the results of operations and financial position of Duke Energy.

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PART I

The availability of adequate interstate pipeline transportation capacity and natural gas supply may decrease.

The Duke Energy Registrants purchase almost all of their natural gas supply from interstate sources that must be transported to the applicable service territories. Interstate pipeline companies transport the natural gas to the Duke Energy Registrants' systems under firm service agreements that are designed to meet the requirements of their core markets. A significant disruption to interstate pipelines capacity or reduction in natural gas supply due to events including, but not limited to, operational failures or disruptions, hurricanes, tornadoes, floods, freeze off of natural gas wells, terrorist or cyberattacks or other acts of war or legislative or regulatory actions or requirements, including remediation related to integrity inspections, could reduce the normal interstate supply of natural gas and thereby reduce earnings. Moreover, if additional natural gas infrastructure, including, but not limited to, exploration and drilling rigs and platforms, processing and gathering systems, off-shore pipelines, interstate pipelines and storage, cannot be built at a pace that meets demand, then growth opportunities could be limited.

Fluctuations in commodity prices or availability may adversely affect various aspects of the Duke Energy Registrants' operations as well as their results of operations, financial position and cash flows.

The Duke Energy Registrants are exposed to the effects of market fluctuations in the price of natural gas, coal, fuel oil, nuclear fuel, electricity and other energy-related commodities as a result of their ownership of energy-related assets. Fuel costs are recovered primarily through cost-recovery clauses, subject to the approval of state utility commissions.

Additionally, the Duke Energy Registrants are exposed to risk that counterparties will not be able to fulfill their obligations. Disruption in the delivery of fuel, including disruptions as a result of, among other things, transportation delays, weather, labor relations, force majeure events or environmental regulations affecting any of these fuel suppliers, could limit the Duke Energy Registrants' ability to operate their facilities. Should counterparties fail to perform, the Duke Energy Registrants might be forced to replace the underlying commitment at prevailing market prices possibly resulting in losses in addition to the amounts, if any, already paid to the counterparties.

Certain of the Duke Energy Registrants' hedge agreements may result in the receipt of, or posting of, collateral with counterparties, depending on the daily market-based calculation of financial exposure of the derivative positions. Fluctuations in commodity prices that lead to the return of collateral received and/or the posting of collateral with counterparties could negatively impact liquidity. Downgrades in the Duke Energy Registrants' credit ratings could lead to additional collateral posting requirements. The Duke Energy Registrants continually monitor derivative positions in relation to market price activity.

Potential terrorist activities, or military or other actions, could adversely affect the Duke Energy Registrants' businesses.

The continued threat of terrorism and the impact of retaliatory military and other action by the U.S. and its allies may lead to increased political, economic and financial market instability and volatility in prices for natural gas and oil, which may have material adverse effects in ways the Duke Energy Registrants cannot predict at this time. In addition, future acts of terrorism and possible reprisals as a consequence of action by the U.S. and its allies could be directed against companies operating in the U.S. Information technology systems, transmission and distribution and generation facilities such as nuclear plants could be potential targets of terrorist activities or harmful activities by individuals or groups that could have a material adverse effect on Duke Energy Registrants' businesses. In particular, the Duke Energy Registrants may experience increased capital and operating costs to implement increased security for their information technology systems, transmission and distribution and generation facilities, including nuclear power plants under the NRC's design

basis threat requirements. These increased costs could include additional physical plant security and security personnel or additional capability following a terrorist incident.

The failure of Duke Energy information technology systems, or the failure to enhance existing information technology systems and implement new technology, could adversely affect the Duke Energy Registrants' businesses.

Duke Energy's operations are dependent upon the proper functioning of its internal systems, including the information technology systems that support our underlying business processes. Any significant failure or malfunction of such information technology systems may result in disruptions of our operations. In the ordinary course of business, we rely on information technology systems, including the internet and third-party hosted services, to support a variety of business processes and activities and to store sensitive data, including (i) intellectual property, (ii) proprietary business information, (iii) personally identifiable information of our customers, employees, retirees and shareholders and (iv) data with respect to invoicing and the collection of payments, accounting, procurement, and supply chain activities. Our information technology systems are dependent upon global communications and cloud service providers, as well as their respective vendors, many of whom have at some point experienced significant system failures and outages in the past and may experience such failures and outages in the future. These providers' systems are susceptible to cybersecurity and data breaches, outages from fire, floods, power loss, telecommunications failures, break-ins and similar events. Failure to prevent or mitigate data loss from system failures or outages could materially affect the results of operations, financial position and cash flows of the Duke Energy Registrants.

In addition to maintaining our current information technology systems, Duke Energy believes the digital transformation of its business is key to driving internal efficiencies as well as providing additional capabilities to customers. Duke Energy's information technology systems are critical to cost-effective, reliable daily operations and our ability to effectively serve our customers. We expect our customers to continue to demand more sophisticated technology-driven solutions and we must enhance or replace our information technology systems in response. This involves significant development and implementation costs to keep pace with changing technologies and customer demand. If we fail to successfully implement critical technology, or if it does not provide the anticipated benefits or meet customer demands, such failure could materially adversely affect our business strategy as well as impact the results of operations, financial position and cash flows of the Duke Energy Registrants.

Cyberattacks and data security breaches could adversely affect the Duke Energy Registrants' businesses.

Cybersecurity risks have increased in recent years as a result of the proliferation of new technologies and the increased sophistication, magnitude and frequency of cyberattacks and data security breaches. Duke Energy relies on the continued operation of sophisticated digital information technology systems and network infrastructure, which are part of an interconnected regional grid. Additionally, connectivity to the internet continues to increase through grid modernization and other operational excellence initiatives. Because of the critical nature of the infrastructure, increased connectivity to the internet and technology systems' inherent vulnerability to disability or failures due to hacking, viruses, acts of war or terrorism or other types of data security breaches, the Duke Energy Registrants face a heightened risk of cyberattack from foreign or domestic sources and have been subject, and will likely continue to be subject, to attempts to gain unauthorized access to information and/or information systems or to disrupt utility operations through computer viruses and phishing attempts either directly or indirectly through its material vendors or related third parties. In the event of a significant cybersecurity breach on either the Duke Energy Registrants or with one of our material vendors or related

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Step 13 2021

PART I

third parties, the Duke Energy Registrants could (i) have business operations disrupted, including the disruption of the operation of our assets and the power grid, theft of confidential company, employee, retiree, shareholder, vendor or customer information, and general business systems and process interruption or compromise, including preventing the Duke Energy Registrants from servicing customers, collecting revenues or the recording, processing and/or reporting financial information correctly, (ii) experience substantial loss of revenues, repair and restoration costs, penalties and costs for lack of compliance with relevant regulations, implementation costs for additional security measures to avert future cyberattacks and other financial loss and (iii) be subject to increased regulation, litigation and reputational damage. While Duke Energy maintains insurance relating to cybersecurity events, such insurance is subject to a number of exclusions and may be insufficient to offset any losses, costs or damage experienced. Also, the market for cybersecurity insurance is relatively new and coverage available for cybersecurity events is evolving as the industry matures.

The Duke Energy Registrants are subject to standards enacted by the North American Electric Reliability Corporation and enforced by FERC regarding protection of the physical and cyber security of critical infrastructure assets required for operating North America's bulk electric system. The Duke Energy Registrants are also subject to regulations set by the Nuclear Regulatory Commission regarding the protection of digital computer and communication systems and networks required for the operation of nuclear power plants. While the Duke Energy Registrants believe they are in compliance with such standards and regulations, the Duke Energy Registrants have from time to time been, and may in the future be, found to be in violation of such standards and regulations. In addition, compliance with or changes in the applicable standards and regulations may subject the Duke Energy Registrants to higher operating costs and/or increased capital expenditures as well as substantial fines for non-compliance.

Failure to attract and retain an appropriately qualified workforce could unfavorably impact the Duke Energy Registrants' results of operations.

Certain events, such as an aging workforce, mismatch of skill set or complement to future needs, or unavailability of contract resources may lead to operating challenges and increased costs. The challenges include lack of resources, loss of knowledge base and the lengthy time required for skill development. In this case, costs, including costs for contractors to replace employees, productivity costs and safety costs, may increase. Failure to hire and adequately train replacement employees, including the transfer of significant internal historical knowledge and expertise to new employees, or future availability and cost of contract labor may adversely affect the ability to manage and operate the business, especially considering the workforce needs associated with nuclear generation facilities and new skills required to operate a modernized, technology-enabled power grid. If the Duke Energy Registrants are unable to successfully attract and retain an appropriately qualified workforce, their results of operations, financial position and cash flows could be negatively affected.

Duke Energy Ohio's and Duke Energy Indiana's membership in an RTO presents risks that could have a material adverse effect on their results of operations, financial position and cash flows.

The rules governing the various regional power markets may change, which could affect Duke Energy Ohio's and Duke Energy Indiana's costs and/or revenues. To the degree Duke Energy Ohio and Duke Energy Indiana incur significant additional fees and increased costs to participate in an RTO, their results of operations may be impacted. Duke Energy Ohio and Duke Energy Indiana may be allocated a portion of the cost of transmission facilities built by others due to changes in RTO transmission rate design. Duke Energy Ohio and Duke Energy Indiana may be required to expand their transmission system according to decisions made by an RTO rather than their own internal planning process. In addition, RTOs have been developing rules associated with the allocation and methodology of assigning costs associated with improved

transmission reliability, reduced transmission congestion and firm transmission rights that may have a financial impact on the results of operations, financial position and cash flows of Duke Energy Ohio and Duke Energy Indiana.

As members of an RTO, Duke Energy Ohio and Duke Energy Indiana are subject to certain additional risks, including those associated with the allocation among RTO members, of losses caused by unreimbursed defaults of other participants in the RTO markets and those associated with complaint cases filed against an RTO that may seek refunds of revenues previously earned by RTO members.

The Duke Energy Registrants may not recover costs incurred to begin construction on projects that are canceled.

Duke Energy's long-term strategy requires the construction of new projects, either wholly owned or partially owned, which involve a number of risks, including construction delays, nonperformance by equipment and other third-party suppliers, and increases in equipment and labor costs. To limit the risks of these construction projects, the Duke Energy Registrants enter into equipment purchase orders and construction contracts and incur engineering and design service costs in advance of receiving necessary regulatory approvals and/or siting or environmental permits. If any of these projects are canceled for any reason, including failure to receive necessary regulatory approvals and/or siting or environmental permits, significant cancellation penalties under the equipment purchase orders and construction contracts could occur. In addition, if any construction work or investments have been recorded as an asset, an impairment may need to be recorded in the event the project is canceled.

The Duke Energy Registrants are subject to risks associated with their ability to obtain adequate insurance at acceptable costs.

The financial condition of some insurance companies, actual or threatened physical or cyber attacks, and natural disasters, among other things, could have disruptive effects on insurance markets. The availability of insurance covering risks that the Duke Energy Registrants and their respective competitors typically insure against may decrease, and the insurance that the Duke Energy Registrants are able to obtain may have higher deductibles, higher premiums, and more restrictive policy terms. Further, the insurance policies may not cover all of the potential exposures or the actual amount of loss incurred. Any losses not covered by insurance, or any increases in the cost of applicable insurance, could adversely affect the results of operations, financial position or cash flows of the affected Duke Energy Registrant.

NUCLEAR GENERATION RISKS

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida may incur substantial costs and liabilities due to their ownership and operation of nuclear generating facilities.

Ownership interests in and operation of nuclear stations by Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida subject them to various risks. These risks include, among other things: the potential harmful effects on the environment and human health resulting from the current or past operation of nuclear facilities and the storage, handling and disposal of radioactive materials; limitations on the amounts and types of insurance commercially available to cover losses that might arise in connection with nuclear operations; and uncertainties with respect to the technological and financial aspects of decommissioning nuclear plants at the end of their licensed lives.

Ownership and operation of nuclear generation facilities requires compliance with licensing and safety-related requirements imposed by the NRC. In the event of non-compliance, the NRC may increase regulatory oversight, impose fines or shut down a unit depending upon its assessment of the severity of the situation. Revised security and safety requirements promulgated by

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Step 13 2021

PART I

the NRC, which could be prompted by, among other things, events within or outside of the control of Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, such as a serious nuclear incident at a facility owned by a third party, could necessitate substantial capital and other expenditures, as well as assessments to cover third-party losses. In addition, if a serious nuclear incident were to occur, it could have a material adverse effect on the results of operations, financial position, cash flows and reputation of the Duke Energy Registrants.

LIQUIDITY, CAPITAL REQUIREMENTS AND COMMON STOCK RISKS

The Duke Energy Registrants rely on access to short-term borrowings and longer-term debt and equity markets to finance their capital requirements and support their liquidity needs. Access to those markets can be adversely affected by a number of conditions, many of which are beyond the Duke Energy Registrants' control.

The Duke Energy Registrants' businesses are significantly financed through issuances of debt and equity. The maturity and repayment profile of debt used to finance investments often does not correlate to cash flows from their assets. Accordingly, as a source of liquidity for capital requirements not satisfied by the cash flows from their operations and to fund investments originally financed through debt instruments with disparate maturities, the Duke Energy Registrants rely on access to short-term money markets as well as longer-term capital markets. The Subsidiary Registrants also rely on access to short-term intercompany borrowings. If the Duke Energy Registrants are not able to access debt or equity at competitive rates or at all, the ability to finance their operations and implement their strategy and business plan as scheduled could be adversely affected. An inability to access debt and equity may limit the Duke Energy Registrants' ability to pursue improvements or acquisitions that they may otherwise rely on for future growth.

Market disruptions may increase the cost of borrowing or adversely affect the ability to access one or more financial markets. Such disruptions could include: economic downturns, the bankruptcy of an unrelated energy company, unfavorable capital market conditions, market prices for electricity and natural gas, actual or threatened terrorist attacks, or the overall health of the energy industry. The availability of credit under Duke Energy's Master Credit Facility depends upon the ability of the banks providing commitments under the facility to provide funds when their obligations to do so arise. Systematic risk of the banking system and the financial markets could prevent a bank from meeting its obligations under the facility agreement.

Duke Energy maintains a revolving credit facility to provide backup for its commercial paper program and letters of credit to support variable rate demand tax-exempt bonds that may be put to the Duke Energy Registrant issuer at the option of the holder. The facility includes borrowing sublimits for the Duke Energy Registrants, each of whom is a party to the credit facility, and financial covenants that limit the amount of debt that can be outstanding as a percentage of the total capital for the specific entity. Failure to maintain these covenants at a particular entity could preclude Duke Energy from issuing commercial paper or the Duke Energy Registrants from issuing letters of credit or borrowing under the Master Credit Facility.

The Duke Energy Registrants must meet credit quality standards and there is no assurance they will maintain investment grade credit ratings. If the Duke Energy Registrants are unable to maintain investment grade credit ratings, they would be required under credit agreements to provide collateral in the form of letters of credit or cash, which may materially adversely affect their liquidity.

Each of the Duke Energy Registrants' senior long-term debt issuances is currently rated investment grade by various rating agencies. The Duke Energy Registrants cannot ensure their senior long-term debt will be rated investment grade in the future.

If the rating agencies were to rate the Duke Energy Registrants below investment grade, borrowing costs would increase, perhaps significantly. In addition, the potential pool of investors and funding sources would likely decrease. Further, if the short-term debt rating were to fall, access to the commercial paper market could be significantly limited.

A downgrade below investment grade could also require the posting of additional collateral in the form of letters of credit or cash under various credit, commodity and capacity agreements and trigger termination clauses in some interest rate derivative agreements, which would require cash payments. All of these events would likely reduce the Duke Energy Registrants' liquidity and profitability and could have a material effect on their results of operations, financial position and cash flows.

Non-compliance with debt covenants or conditions could adversely affect the Duke Energy Registrants' ability to execute future borrowings.

The Duke Energy Registrants' debt and credit agreements contain various financial and other covenants. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements.

Market performance and other changes may decrease the value of the NDTF investments of Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, which then could require significant additional funding.

Ownership and operation of nuclear generation facilities also requires the maintenance of funded trusts that are intended to pay for the decommissioning costs of the respective nuclear power plants. The performance of the capital markets affects the values of the assets held in trust to satisfy these future obligations. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida have significant obligations in this area and hold significant assets in these trusts. These assets are subject to market fluctuations and will yield uncertain returns, which may fall below projected rates of return. Although a number of factors impact funding requirements, a decline in the market value of the assets may increase the funding requirements of the obligations for decommissioning nuclear plants. If Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are unable to successfully manage their NDTF assets, their results of operations, financial position and cash flows could be negatively affected.

Poor investment performance of the Duke Energy pension plan holdings and other factors impacting pension plan costs could unfavorably impact the Duke Energy Registrants' liquidity and results of operations.

The costs of providing non-contributory defined benefit pension plans are dependent upon a number of factors, such as the rates of return on plan assets, discount rates, the level of interest rates used to measure the required minimum funding levels of the plans, future government regulation and required or voluntary contributions made to the plans. The Subsidiary Registrants are allocated their proportionate share of the cost and obligations related to these plans. Without sustained growth in the pension investments over time to increase the value of plan assets and, depending upon the other factors impacting costs as listed above, Duke Energy could be required to fund its plans with significant amounts of cash. Such cash funding obligations, and the Subsidiary Registrants' proportionate share of such cash funding obligations, could have a material impact on the Duke Energy Registrants' results of operations, financial position and cash flows.

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Step 13 2021

PART I

Duke Energy is a holding company and depends on the cash flows from its subsidiaries to meet its financial obligations.

Because Duke Energy is a holding company with no operations or cash flows of its own, its ability to meet its financial obligations, including making interest and principal payments on outstanding indebtedness and to pay dividends on its common stock, is primarily dependent on the net income and cash flows of its subsidiaries and the ability of those subsidiaries to pay

upstream dividends or to repay borrowed funds. Prior to funding Duke Energy, its subsidiaries have regulatory restrictions and financial obligations that must be satisfied. These subsidiaries are separate legal entities and have no obligation to provide Duke Energy with funds. In addition, Duke Energy may provide capital contributions or debt financing to its subsidiaries under certain circumstances, which would reduce the funds available to meet its financial obligations, including making interest and principal payments on outstanding indebtedness and to pay dividends on Duke Energy's common stock.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

ELECTRIC UTILITIES AND INFRASTRUCTURE

The following table provides information related to the Electric Utilities and Infrastructure's generation stations as of December 31, 2019. The MW displayed in the table below are based on summer capacity. Ownership interest in all facilities is 100% unless otherwise indicated.

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Carolinas				
Oconee	Nuclear	Uranium	SC	2,554
McGuire	Nuclear	Uranium	NC	2,316
Catawba ^(a)	Nuclear	Uranium	SC	445
Belews Creek	Fossil	Coal	NC	2,220
Marshall	Fossil	Coal	NC	2,058
J.E. Rogers	Fossil	Coal	NC	1,388
Lincoln CT	Fossil	Gas/Oil	NC	1,193
Allen	Fossil	Coal	NC	1,098
Rockingham CT	Fossil	Gas/Oil	NC	825
W.S. Lee CC ^(b)	Fossil	Gas	NC	686
Buck CC	Fossil	Gas	NC	668
Dan River CC	Fossil	Gas	NC	662
Mill Creek CT	Fossil	Gas/Oil	SC	563
W.S. Lee	Fossil	Gas	SC	170
W.S. Lee CT	Fossil	Gas/Oil	SC	84
Clemson CHP	Fossil	Gas	SC	13
Bad Creek	Hydro	Water	SC	1,360
Jocassee	Hydro	Water	SC	780
Cowans Ford	Hydro	Water	NC	324
Keowee	Hydro	Water	SC	152
Other small facilities (19 plants)	Hydro	Water	NC/SC	603
Distributed generation	Renewable	Solar	NC	30
Total Duke Energy Carolinas				20,192

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Step 13 2021

PART I

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Progress				
Brunswick	Nuclear	Uranium	NC	1,870
Harris	Nuclear	Uranium	NC	964
Robinson	Nuclear	Uranium	SC	741
Roxboro	Fossil	Coal	NC	2,439
Smith CC	Fossil	Gas/Oil	NC	1,085
H.F. Lee CC	Fossil	Gas/Oil	NC	888
Wayne County CT	Fossil	Gas/Oil	NC	857
Smith CT	Fossil	Gas/Oil	NC	772
Mayo	Fossil	Coal	NC	727
Darlington CT	Fossil	Gas/Oil	SC	613
L.V. Sutton CC	Fossil	Gas/Oil	NC	607
Asheville	Fossil	Coal	NC	344
Asheville CT	Fossil	Gas/Oil	NC	320
Asheville CC	Fossil	Gas/Oil	NC	237
Weatherspoon CT	Fossil	Gas/Oil	NC	124
L.V. Sutton CT (Black Start)	Fossil	Gas/Oil	NC	78
Blewett CT	Fossil	Oil	NC	52
Walters	Hydro	Water	NC	112
Other small facilities (3 plants)	Hydro	Water	NC	115
Distributed generation	Renewable	Solar	NC	49
Total Duke Energy Progress				12,994
Duke Energy Florida				
Hines CC	Fossil	Gas/Oil	FL	2,054
Citrus County CC	Fossil	Gas	FL	1,610
Crystal River	Fossil	Coal	FL	1,422
Bartow CC	Fossil	Gas/Oil	FL	1,169
Anclote	Fossil	Gas	FL	1,013
Intercession City CT	Fossil	Gas/Oil	FL	951
Osprey CC	Fossil	Gas/Oil	FL	583
DeBary CT	Fossil	Gas/Oil	FL	559
Tiger Bay CC	Fossil	Gas/Oil	FL	200
Bayboro CT	Fossil	Oil	FL	171
Bartow CT	Fossil	Gas/Oil	FL	168
Suwannee River CT	Fossil	Gas	FL	149
Avon Park CT	Fossil	Gas/Oil	FL	48
University of Florida CoGen CT	Fossil	Gas	FL	43
Distributed generation	Renewable	Solar	FL	119
Total Duke Energy Florida				10,259
Duke Energy Ohio				
East Bend	Fossil	Coal	KY	600
Woodsdale CT	Fossil	Gas/Propane	OH	476
Total Duke Energy Ohio				1,076
Duke Energy Indiana				
Gibson ^(c)	Fossil	Coal	IN	2,822
Cayuga ^(d)	Fossil	Coal/Oil	IN	1,005
Edwardsport	Fossil	Coal	IN	595
Madison CT	Fossil	Gas	OH	566
Wheatland CT	Fossil	Gas	IN	450
Vermillion CT ^(e)	Fossil	Gas	IN	360
Gallagher	Fossil	Coal	IN	280
Noblesville CC	Fossil	Gas/Oil	IN	264
Henry County CT	Fossil	Gas/Oil	IN	129
Cayuga CT	Fossil	Gas/Oil	IN	86
Markland	Hydro	Water	IN	51
Distributed generation	Renewable	Solar	IN	11
Camp Atterbury Battery	Renewable	Storage	IN	4
Total Duke Energy Indiana				6,623

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Step 13 2021

PART I

Totals by Type	Owned MW Capacity
Total Electric Utilities	51,144
Totals By Plant Type	
Nuclear	8,890
Fossil	38,544
Hydro	3,497
Renewable	213
Total Electric Utilities	51,144

- (a) Jointly owned with North Carolina Municipal Power Agency Number 1, NCEMC and PMPA. Duke Energy Carolinas' ownership is 19.25% of the facility.
(b) Jointly owned with NCEMC. Duke Energy Carolinas' ownership is 87.27% of the facility.
(c) Duke Energy Indiana owns and operates Gibson Station Units 1 through 4 and is a joint owner of unit 5 with WVPA and IMPA. Duke Energy Indiana operates unit 5 and owns 50.05%.
(d) Includes Cayuga Internal Combustion.
(e) Jointly owned with WVPA. Duke Energy Indiana's ownership is 62.50% of the facility.

The following table provides information related to Electric Utilities and Infrastructure's electric transmission and distribution properties as of December 31, 2019.

	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Electric Transmission Lines						
Miles of 500 to 525 kilovolt (kV)	1,036	576	292	168	—	—
Miles of 345 kV	1,135	—	—	—	410	725
Miles of 230 kV	8,349	2,658	3,399	1,638	—	654
Miles of 100 to 161 kV	12,441	6,846	2,563	891	724	1,417
Miles of 13 to 69 kV	8,351	2,988	12	2,200	612	2,539
Total conductor miles of electric transmission lines	31,312	13,068	6,266	4,897	1,746	5,335
Electric Distribution Lines						
Miles of overhead lines	173,800	66,600	46,500	25,200	13,300	22,200
Miles of underground line	106,300	39,500	30,700	20,900	6,100	9,100
Total conductor miles of electric distribution lines	280,100	106,100	77,200	46,100	19,400	31,300
Number of electric transmission and distribution substations	3,316	1,491	512	496	314	503

Substantially all of Electric Utilities and Infrastructure's electric plant in service is mortgaged under indentures relating to Duke Energy Carolinas', Duke Energy Progress', Duke Energy Florida's, Duke Energy Ohio's and Duke Energy Indiana's various series of First Mortgage Bonds.

GAS UTILITIES AND INFRASTRUCTURE

Gas Utilities and Infrastructure owns transmission pipelines and distribution mains that are generally underground, located near public streets and highways, or on property owned by others for which Duke Energy Ohio and Piedmont have obtained the necessary legal rights to place and operate facilities on such property located within the Gas Utilities and Infrastructure service territories. The following table provides information related to Gas Utilities and Infrastructure's natural gas distribution.

	Duke Energy	Duke Energy Ohio	Piedmont
Miles of natural gas distribution and transmission pipelines	33,700	7,300	26,400
Miles of natural gas service lines	27,200	6,300	20,900

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Step 13 2021

PART I

COMMERCIAL RENEWABLES

The following table provides information related to Commercial Renewables' electric generation facilities as of December 31, 2019. The MW displayed in the table below are based on nameplate capacity.

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity	Ownership Interest (%)
Commercial Renewables – Wind					
Los Vientos (five sites)	Renewable	Wind	TX	465	51%
Mesteno ^(a)	Renewable	Wind	TX	202	100%
Sweetwater IV	Renewable	Wind	TX	113	47%
Frontier	Renewable	Wind	OK	103	51%
Top of the World	Renewable	Wind	WY	102	51%
Notrees	Renewable	Wind	TX	78	51%
Mesquite Creek	Renewable	Wind	TX	55	26%
Campbell Hill	Renewable	Wind	WY	50	51%
Ironwood	Renewable	Wind	KS	44	26%
Sweetwater V	Renewable	Wind	TX	38	47%
North Allegheny	Renewable	Wind	PA	36	51%
Laurel Hill	Renewable	Wind	PA	35	51%
Cimarron II	Renewable	Wind	KS	33	26%
Ocotillo	Renewable	Wind	TX	30	51%
Kit Carson	Renewable	Wind	CO	26	51%
Silver Sage	Renewable	Wind	WY	21	51%
Happy Jack	Renewable	Wind	WY	15	51%
Shirley	Renewable	Wind	WI	10	51%
Total Renewables – Wind				1,456	
Commercial Renewables – Solar					
North Rosamond ^(a)	Renewable	Solar	CA	150	100%
Lapetus ^(a)	Renewable	Solar	TX	100	100%
Conetoe II	Renewable	Solar	NC	80	100%
Seville I & II	Renewable	Solar	CA	34	67%
Rio Bravo I & II	Renewable	Solar	CA	27	67%
Wildwood I & II	Renewable	Solar	CA	23	67%
Kelford	Renewable	Solar	NC	22	100%
Dogwood	Renewable	Solar	NC	20	100%
Halifax Airport	Renewable	Solar	NC	20	100%
Pasquotank	Renewable	Solar	NC	20	100%
Shawboro	Renewable	Solar	NC	20	100%
Caprock	Renewable	Solar	NM	17	67%
Creswell Alligood	Renewable	Solar	NC	14	100%
Pumpjack	Renewable	Solar	CA	13	67%
Longboat	Renewable	Solar	CA	13	67%
Shoreham ^(a)	Renewable	Solar	NY	13	51%
Washington White Post	Renewable	Solar	NC	12	100%
Whitakers	Renewable	Solar	NC	12	100%
Highlander I & II	Renewable	Solar	CA	11	51%
Other small solar ^(a)	Renewable	Solar	Various	177	Various
Total Renewables – Solar				798	
Commercial Renewables – Fuel Cells					
2018 ESA Portfolio ^(a)	Renewable	Fuel Cell	Various	10	100%
Total Renewables – Fuel Cells				10	
Commercial Renewables – Energy Storage					
Notrees Battery Storage	Renewable	Storage	TX	18	51%
Total Renewables – Energy Storage				18	
Total Commercial Renewables				2,282	

(a) Certain projects, including projects within Other small solar, are in tax-equity structures where investors have differing interests in the project's economic attributes. 100% of the tax-equity project's capacity is included in the table above.

PART I

OTHER

Duke Energy owns approximately 8 million square feet and leases approximately 2 million square feet of corporate, regional and district office space spread throughout its service territories.

ITEM 3. LEGAL PROCEEDINGS

For information regarding legal proceedings, including regulatory and environmental matters, see Note 4, "Regulatory Matters," and Note 5, "Commitments and Contingencies," to the Consolidated Financial Statements.

MTBE Litigation

On December 15, 2017, the state of Maryland filed suit in Baltimore City Circuit Court against Duke Energy Merchants and other defendants alleging contamination of state waters by MTBE leaking from gasoline storage tanks. MTBE is a gasoline additive intended to increase the oxygen levels in gasoline and make it burn cleaner. The case was removed from Baltimore City Circuit Court to federal District Court. Initial motions to dismiss filed by the defendants were denied by the court on September 4, 2019. The defendants have filed answers and will pursue summary judgment after the completion of discovery. Duke Energy cannot predict the outcome of this matter.

ITEM 4. MINE SAFETY DISCLOSURES

This is not applicable for any of the Duke Energy Registrants.

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PART II

ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

The common stock of Duke Energy is listed and traded on the NYSE (ticker symbol DUK). As of January 31, 2020, there were 140,942 Duke Energy common stockholders of record. For information on dividends, see the "Dividend Payments" section of Management's Discussion and Analysis.

There is no market for the common equity securities of the Subsidiary Registrants, all of which are directly or indirectly owned by Duke Energy.

Securities Authorized for Issuance Under Equity Compensation Plans

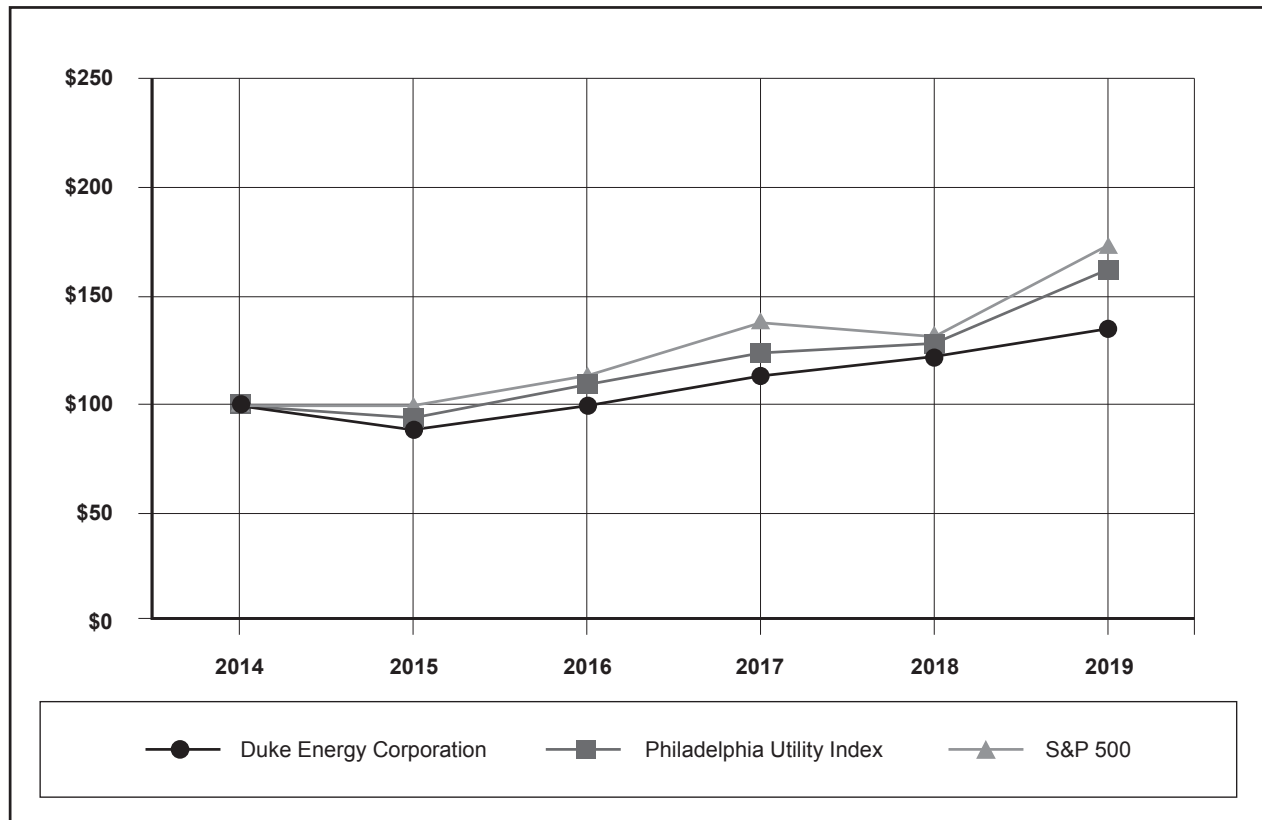
See Item 12 of Part III within this Annual Report for information regarding Securities Authorized for Issuance Under Equity Compensation Plans.

Issuer Purchases of Equity Securities for Fourth Quarter 2019

There were no repurchases of equity securities during the fourth quarter of 2019.

Stock Performance Graph

The following performance graph compares the cumulative TSR from Duke Energy Corporation common stock, as compared with the Standard & Poor's 500 Stock Index (S&P 500) and the Philadelphia Utility Index for the past five years. The graph assumes an initial investment of \$100 on December 31, 2014, in Duke Energy common stock, in the S&P 500 and in the Philadelphia Utility Index and that all dividends were reinvested. The stockholder return shown below for the five-year historical period may not be indicative of future performance.



NYSE CEO Certification

Duke Energy has filed the certification of its Chief Executive Officer and Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 as exhibits to this Annual Report on Form 10-K for the year ended December 31, 2019.

PART II

ITEM 6. SELECTED FINANCIAL DATA

The following table provides selected financial data for the years of 2015 through 2019. See also Item 7.

(in millions, except per share amounts)	2019	2018	2017	2016	2015
Statements of Operations^(a)					
Total operating revenues	\$ 25,079	\$ 24,521	\$ 23,565	\$ 22,743	\$ 22,371
Operating income	5,709	4,685	5,625	5,202	4,974
Income from continuing operations	3,578	2,625	3,070	2,578	2,654
(Loss) Income from discontinued operations, net of tax	(7)	19	(6)	(408)	177
Net income	3,571	2,644	3,064	2,170	2,831
Net income available to Duke Energy Corporation common stockholders	3,707	2,666	3,059	2,152	2,816
Common Stock Data					
Income from continuing operations available to Duke Energy Corporation common stockholders					
Basic and diluted	\$ 5.07	\$ 3.73	\$ 4.37	\$ 3.71	\$ 3.80
(Loss) Income from discontinued operations attributable to Duke Energy Corporation common stockholders					
Basic and diluted	\$ (0.01)	\$ 0.03	\$ (0.01)	\$ (0.60)	\$ 0.25
Net income available to Duke Energy Corporation common stockholders					
Basic and diluted	\$ 5.06	\$ 3.76	\$ 4.36	\$ 3.11	\$ 4.05
Dividends declared per share of common stock	3.75	3.64	3.49	3.36	3.24
Balance Sheets					
Total assets	\$ 158,838	\$ 145,392	\$ 137,914	\$ 132,761	\$ 121,156
Long-term debt including finance leases, less current maturities	54,985	51,123	49,035	45,576	36,842

(a) Significant transactions reflected in the results above include: (i) growth in Commercial Renewables from new tax equity solar projects placed in service in 2019 (see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies"); (ii) regulatory and legislative charges related to Duke Energy Progress and Duke Energy Carolinas North Carolina rate case orders and impairment charges in 2018 (see Notes 4, 12 and 13 to the Consolidated Financial Statements, "Regulatory Matters," "Goodwill and Intangible Assets" and "Investments in Unconsolidated Affiliates"); (iii) the sale of the International Disposal Group in 2016, including a loss on sale recorded within discontinued operations; and (iv) the acquisition of Piedmont in 2016, including losses on interest rate swaps related to the acquisition financing.

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Management's Discussion and Analysis includes financial information prepared in accordance with GAAP in the U.S., as well as certain non-GAAP financial measures such as adjusted earnings and adjusted EPS discussed below. Generally, a non-GAAP financial measure is a numerical measure of financial performance, financial position or cash flows that excludes (or includes) amounts that are included in (or excluded from) the most directly comparable measure calculated and presented in accordance with GAAP. The non-GAAP financial measures should be viewed as a supplement to, and not a substitute for, financial measures presented in accordance with GAAP. Non-GAAP measures as presented herein may not be comparable to similarly titled measures used by other companies.

The following combined Management's Discussion and Analysis of Financial Condition and Results of Operations is separately filed by Duke Energy Corporation and its subsidiaries. Duke Energy Carolinas, LLC, Progress Energy, Inc., Duke Energy Progress, LLC, Duke Energy Florida, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC and Piedmont Natural Gas Company, Inc.. However, none of the registrants make any representation as to information related solely to Duke Energy or the subsidiary registrants of Duke Energy other than itself.

Management's Discussion and Analysis should be read in conjunction with the Consolidated Financial Statements and Notes for the years ended December 31, 2019, 2018 and 2017.

See "Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations," in Duke Energy's Annual Report on Form 10-K for the year ended December 31, 2018, filed with the SEC on February 28, 2019, for a discussion of variance drivers for the year ended December 31, 2018, as compared to December 31, 2017.

DUKE ENERGY

Duke Energy is an energy company headquartered in Charlotte, North Carolina. Duke Energy operates in the U.S. primarily through its wholly owned subsidiaries, Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont. When discussing Duke Energy's consolidated financial information, it necessarily includes the results of the Subsidiary Registrants, which along with Duke Energy, are collectively referred to as the Duke Energy Registrants.

Executive Overview

At Duke Energy the fundamentals of our business are strong and allow us to deliver growth in earnings and dividends in a low-risk, predictable and transparent way. In 2019, we met our near-term financial commitments and positioned the company for sustainable long-term growth. We are focused on a business portfolio that will deliver a reliable dividend with 4% to 6% EPS growth through 2024. This growth is supported by our capital plan, timely cost-recovery mechanisms in most jurisdictions and our ability to manage our cost structure. The strength of our balance sheet is of vital importance to the cost-effective financing of our growth strategy, and in 2019 we continued to strengthen it by issuing \$2 billion of preferred equity and \$2.5 billion of common stock through a forward sales agreement which is expected to settle on or prior to December 31, 2020.

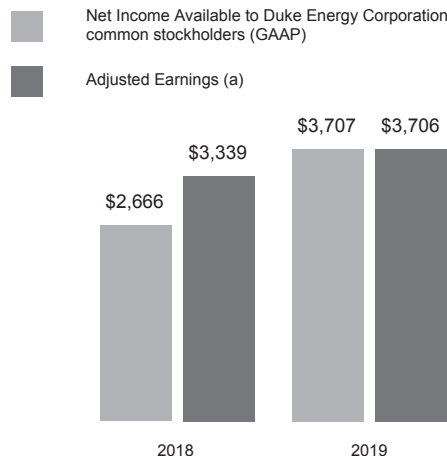
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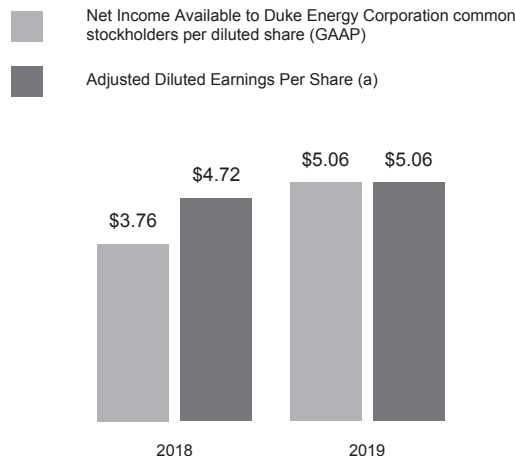
PART II

Financial Results

Annual Earnings (in millions)



Annual Earnings Per Diluted Share



(a) See Results of Operations below for Duke Energy's definition of adjusted earnings and adjusted diluted EPS as well as a reconciliation of this non-GAAP financial measure to net income available to Duke Energy and net income available to Duke Energy per diluted share.

Duke Energy's 2019 Net Income Available to Duke Energy Corporation (GAAP Reported Earnings) were impacted by: favorable rate case and rider recovery outcomes, net of regulatory lag, and ongoing cost management efforts in Electric Utilities and Infrastructure; improved margins and increased ACP investment in Gas Utilities and Infrastructure; and growth in project investments in Commercial Renewables. See "Results of Operations" below for a detailed discussion of the consolidated results of operations and a detailed discussion of financial results for each of Duke Energy's reportable business segments, as well as Other where financing costs increased in 2019 to fund segment operations and other liquidity needs.

2019 Areas of Focus and Accomplishments

Operational Excellence, Safety and Reliability. The reliable and safe operation of our power plants, electric distribution system and natural gas infrastructure in our communities is foundational to our customers, our financial results and our credibility with stakeholders. Our regulated generation fleet performance was strong throughout the year. All of our nuclear sites have achieved the industry's highest distinction rating. Our electric distribution system performed well throughout the year, with outage durations down when adjusted for storms. The safety of our workforce is a core value. Our employees delivered strong safety results in 2019, and we are at or near the top of our industry.

Storm Response and System Restoration. The 2019 Atlantic hurricane season was the fourth consecutive year of above-average damaging storms. Our ability to effectively handle all facets of the 2019 storm response efforts is a testament to our team's extensive preparation and coordination, applying lessons learned from previous storms, and to on-the-ground management throughout the restoration efforts. Notably in 2019 Duke Energy earned EEI's Emergency Recovery Award, our 22nd EEI award since 1998 and a strong affirmation of the work of our employees to support customers when they need us most.

Customer Satisfaction. Duke Energy continues to transform the customer experience through our use of customer data to better inform operational priorities and performance levels. This data-driven approach allows us to identify the investments that are the most important to the customer experience. In 2019, we instituted billing and payment-related communications and options, and we continue to enhance outage-related communications to customers.

Constructive Regulatory and Legislative Outcomes. One of our long-term strategic goals is to achieve modernized regulatory constructs in our jurisdictions. Modernized constructs provide benefits, which include improved earnings and cash flows through more timely recovery of investments, as well as stable pricing for customers. In 2019, Duke Energy, North Carolina regulators and environmentalists reached an agreement to permanently close all remaining coal ash basins in North Carolina. This agreement reduces the cost to close our coal ash basins for our Carolinas customers in comparison to the initial NCDEQ closure order. In 2019 we achieved constructive rate case outcomes driving earnings growth through rate base increases in South Carolina (electric), North Carolina (natural gas), Ohio (electric distribution) and Kentucky (natural gas). In addition, we have a multiyear rate plan in Florida and grid investment riders in the Midwest which enable more timely cost recovery and earnings growth.

Digital Transformation. Duke Energy has a demonstrated track record of driving efficiencies and productivity into the business. We continue to leverage new technology, digital tools and data analytics across the business in response to a transforming landscape. In 2019, we created a team dedicated to developing applications and other solutions to deliver productivity gains and improvements to the customer experience.

Modernizing the Power Grid. Our grid improvement programs continue to be a key component of our growth strategy. Modernization of the electric grid, including smart meters, storm hardening, self-healing and targeted undergrounding helps to ensure the system is better prepared for severe weather, improves the system's reliability and flexibility, and provides better information and services for customers. In 2019, 79% of our jurisdictions were equipped with smart meters and we remain on track to be fully deployed across all regions by 2021. We continue to expand our self-optimizing grid capabilities, and in 2019 that saved over a half million customer interruptions.

Generating Cleaner Energy. Overall, we have lowered our carbon emissions by 39% since 2005, consistent with our new goal to reduce carbon emissions by at least 50% by 2030 and to achieve net-zero carbon emissions by 2050. Our commitment for 2030 includes retiring plants, operating our existing carbon-free resources and investing in natural gas infrastructure, renewables and our energy delivery system. As we look beyond 2030, we will need additional tools to continue our progress. We will work actively to advocate for research and development of carbon-free, dispatchable resources. That includes longer-term energy storage, advanced nuclear technologies, carbon capture and zero-carbon fuels.

PART II

Expanding the Natural Gas Platform. We continue to pursue natural gas infrastructure investments. While the judicial and administrative challenges to date have been substantial, we are committed to the construction of the ACP pipeline to bring low-cost gas supply and economic development opportunities to the Southeast U.S. Construction is underway on a liquefied natural gas facility in Robeson County, North Carolina, on property Piedmont owns. This investment will help Piedmont provide a reliable gas supply to customers during peak usage periods and protect customers from price volatility when there is a higher-than-normal demand for natural gas.

Dividend Growth. In 2019, Duke Energy continued to grow the dividend payment to shareholders. 2019 represented the 93rd consecutive year Duke Energy paid a cash dividend on its common stock.

Duke Energy Objectives – 2020 and Beyond

Duke Energy will continue to deliver exceptional value to customers, be an integral part of the communities in which we do business and provide attractive returns to investors. We have an achievable, long-term strategy in place, and it is producing tangible results, yet the industry in which we operate is becoming more and more dynamic. We are adjusting, where necessary, and accelerating our focus in key areas to ensure the company is well positioned to be successful for many decades into the future. As we look ahead to 2020, our plans include:

- Continuing to place the customer at the center of all that we do which includes providing customized products and solutions
- Strengthening our relationships with all our vast stakeholders in the communities in which we operate and invest
- Generating cleaner energy and working to achieve net-zero carbon emissions by 2050
- Maintaining the safety of our communities and employees
- Modernizing and strengthening the energy grid
- Expanding the natural gas infrastructure
- Deploying digital tools across our business

Results of Operations

Non-GAAP Measures

Management evaluates financial performance in part based on non-GAAP financial measures, including adjusted earnings and adjusted diluted EPS. These items represent income from continuing operations available to Duke Energy common stockholders in dollar and per-share amounts, adjusted for the dollar and per-share impact of special items. As discussed below, special items include certain charges and credits, which management believes are not indicative of Duke Energy's ongoing performance. Management believes the presentation of adjusted earnings and adjusted diluted EPS provides useful information to investors, as it provides them with an additional relevant comparison of Duke Energy's performance across periods.

Management uses these non-GAAP financial measures for planning and forecasting, and for reporting financial results to the Board of Directors, employees, stockholders, analysts and investors. Adjusted diluted EPS is also used as a basis for employee incentive bonuses. The most directly comparable GAAP measures for adjusted earnings and adjusted diluted EPS are GAAP Reported Earnings and Diluted EPS Available to Duke Energy Corporation common stockholders (GAAP Reported EPS), respectively.

Special items included in the periods presented include the following, which management believes do not reflect ongoing costs:

- Impairment Charges in 2019 represents a reduction of a prior year impairment at Citrus County CC and an OTTI on the remaining investment in Constitution. For 2018, it represents an impairment at Citrus County CC, a goodwill impairment at Commercial Renewables and an OTTI of an investment in Constitution.
- Costs to Achieve Mergers represents charges that result from strategic acquisitions.
- Regulatory and Legislative Impacts in 2018 represents charges related to the Duke Energy Progress and Duke Energy Carolinas North Carolina rate case orders and the repeal of the South Carolina Base Load Review Act.
- Sale of Retired Plant represents the loss associated with selling Beckjord, a nonregulated generating facility in Ohio.
- Impacts of the Tax Act represents amounts recognized related to the Tax Act.
- Severance Charges relate to companywide initiatives, excluding merger integration, to standardize processes and systems, leverage technology and workforce optimization.

Duke Energy's adjusted earnings and adjusted diluted EPS may not be comparable to similarly titled measures of another company because other companies may not calculate the measures in the same manner.

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PART II

Reconciliation of GAAP Reported Amounts to Adjusted Amounts

The following table presents a reconciliation of adjusted earnings and adjusted diluted EPS to the most directly comparable GAAP measures.

(in millions, except per share amounts)	Years Ended December 31,			
	2019		2018	
	Earnings	EPS	Earnings	EPS
GAAP Reported Earnings/EPS	\$ 3,707	\$ 5.06	\$ 2,666	\$ 3.76
Adjustments to Reported:				
Impairment Charges ^(a)	(8)	(0.01)	179	0.25
Costs to Achieve Piedmont Merger ^(b)	—	—	65	0.09
Regulatory and Legislative Impacts ^(c)	—	—	202	0.29
Sale of Retired Plant ^(d)	—	—	82	0.12
Impacts of the Tax Act ^(e)	—	—	20	0.03
Severance Charges ^(f)	—	—	144	0.21
Discontinued Operations	7	0.01	(19)	(0.03)
Adjusted Earnings/Adjusted Diluted EPS	\$ 3,706	\$ 5.06	\$ 3,339	\$ 4.72

(a) Net of tax expense of \$3 million in 2019. Net of tax benefit of \$27 million and Noncontrolling Interests of \$2 million in 2018.

(b) Net of tax benefit of \$19 million.

(c) Net of tax benefit of \$63 million.

(d) Net of \$25 million tax benefit.

(e) The Tax Act reduced the corporate income tax rate from 35% to 21%, effective January 1, 2018. As the tax change was enacted in 2017, Duke Energy was required to remeasure its existing deferred tax assets and liabilities at the lower rate at December 31, 2017. For Duke Energy's regulated operations, where the reduction in the net accumulated deferred income tax liability is expected to be returned to customers in future rates, the remeasurement has been deferred as a regulatory liability. This amount represents a true up of existing regulatory liabilities related to the Tax Act. See Note 24 to the Consolidated Financial Statements, "Income Taxes" for more information.

(f) Net of tax benefit of \$43 million.

Year Ended December 31, 2019, as compared to 2018

GAAP Reported EPS was \$5.06 for the year ended December 31, 2019, compared to \$3.76 for the year ended December 31, 2018. The increase in GAAP Reported earnings was primarily due to current year favorable rate case and rider recovery outcomes, an adjustment related to income tax recognition for equity method investments, growth in Commercial Renewables from new solar farms commencing commercial operations and prior year regulatory and legislative impacts, impairments, severance, loss on sale of a retired plant and costs to achieve merger. This favorability was partially offset by higher depreciation and higher financing costs in the current year. The equity method investment adjustment was immaterial and relates to prior years.

As discussed and shown in the table above, management also evaluates financial performance based on adjusted diluted EPS. Duke Energy's adjusted diluted EPS was \$5.06 for the year ended December 31, 2019, compared to \$4.72 for the year ended December 31, 2018.

SEGMENT RESULTS

The remaining information presented in this discussion of results of operations is on a GAAP basis. Management evaluates segment performance based on segment income. Segment income is defined as income from continuing operations net of income attributable to noncontrolling interests and preferred stock dividends. Segment income includes intercompany revenues and expenses that are eliminated in the Consolidated Financial Statements.

Duke Energy's segment structure includes the following segments: Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables. The remainder of Duke Energy's operations is presented as Other. See Note 3 to the Consolidated Financial Statements, "Business Segments," for additional information on Duke Energy's segment structure.

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PART II

Electric Utilities and Infrastructure

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Operating Revenues	\$ 22,831	\$ 22,273	\$ 558
Operating Expenses			
Fuel used in electric generation and purchased power	6,904	6,917	(13)
Operations, maintenance and other	5,497	5,631	(134)
Depreciation and amortization	3,951	3,523	428
Property and other taxes	1,175	1,134	41
Impairment charges	(8)	309	(317)
Total operating expenses	17,519	17,514	5
Gains on Sales of Other Assets and Other, net	1	8	(7)
Operating Income	5,313	4,767	546
Other Income and Expenses, net	353	378	(25)
Interest Expense	1,345	1,288	57
Income Before Income Taxes	4,321	3,857	464
Income Tax Expense	785	799	(14)
Segment Income	\$ 3,536	\$ 3,058	\$ 478
Duke Energy Carolinas GWh sales	89,920	92,280	(2,360)
Duke Energy Progress GWh sales	68,356	69,331	(975)
Duke Energy Florida GWh sales	42,173	41,559	614
Duke Energy Ohio GWh sales	24,729	25,329	(600)
Duke Energy Indiana GWh sales	31,886	34,229	(2,343)
Total Electric Utilities and Infrastructure GWh sales	257,064	262,728	(5,664)
Net proportional MW capacity in operation	50,070	49,684	386

Year Ended December 31, 2019, as compared to 2018

Electric Utilities and Infrastructure's results were impacted by positive contributions from the Duke Energy Carolinas and Duke Energy Progress North Carolina and South Carolina rate cases and Duke Energy Florida's base rate adjustments due to the Citrus County CC being placed in service. These drivers were partially offset by higher depreciation from a growing asset base and higher interest expense. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The variance was driven primarily by:

- a \$603 million increase in retail pricing primarily due to the Duke Energy Carolinas and Duke Energy Progress North Carolina and South Carolina rate cases and Duke Energy Florida's base rate adjustments related to Citrus County CC being placed in service.

Partially offset by:

- a \$45 million decrease in weather-normal retail sales volumes.

Operating Expenses. The variance was driven primarily by:

- a \$428 million increase in depreciation and amortization expense primarily due to additional plant in service and new depreciation rates associated with the Duke Energy Carolinas and Duke Energy Progress North Carolina and South Carolina rate cases and Duke Energy Florida's Citrus County CC being placed in service; and
- a \$41 million increase in property and other taxes primarily due to higher property taxes for additional plant in service at Duke Energy Florida and current year property tax reassessments at Duke Energy Progress and Duke Energy Ohio.

Partially offset by:

- a \$317 million decrease in impairment charges primarily due to the impacts associated with the Duke Energy Carolinas and Duke Energy

Progress North Carolina rate cases as well as impairment impacts related to Duke Energy Florida's Citrus County CC; and

- a \$134 million decrease in operation, maintenance and other expense primarily due to lower payroll and benefit costs resulting from prior year workforce reductions and lower storm costs at Duke Energy Progress and Duke Energy Carolinas in the current year.

Other Income and Expenses, net. The variance was driven primarily by AFUDC equity return ending on the Citrus County CC in the fourth quarter of 2018 at Duke Energy Florida.

Interest Expense. The variance was driven primarily by higher debt outstanding in the current year and AFUDC debt return ending in the fourth quarter of 2018 on the Citrus County CC at Duke Energy Florida.

Income Tax Expense. The decrease in tax expense was primarily due to an increase in the amortization of excess deferred taxes, mostly offset by an increase in pretax income. The ETRs for the years ended December 31, 2019, and 2018, were 18.2% and 20.7%, respectively. The decrease in the ETR was primarily due to an increase in the amortization of excess deferred taxes.

Matters Impacting Future Electric Utilities and Infrastructure Results

On December 31, 2019, Duke Energy Carolinas and Duke Energy Progress entered into a settlement agreement with NCDEQ and certain community groups under which Duke Energy Carolinas and Duke Energy Progress agreed to excavate seven of the nine remaining coal ash basins in North Carolina with ash moved to on-site lined landfills. At the two remaining basins, uncapped basin ash will be excavated and moved to lined landfills. An order from regulatory authorities disallowing recovery of costs related to closure of these ash basins could have an adverse impact on Electric Utilities and Infrastructure's results of operations, financial position and cash flows. See Notes 4 and 5 to the Consolidated Financial Statements, "Regulatory Matters" and "Commitments and Contingencies," respectively, for additional information.

PART II

On May 21, 2019, Duke Energy Carolinas and Duke Energy Progress received orders from the PSCSC granting the companies' requests for retail rate increases but denying recovery of certain coal ash costs. Duke Energy Carolinas and Duke Energy Progress filed notices of appeals with the South Carolina Supreme Court on November 15, 2019. Appellant briefs are due on March 2, 2020, and Appellee response briefs are due on May 15, 2020. Electric Utilities and Infrastructure's results of operations, financial position and cash flows could be adversely impacted if coal ash costs are not ultimately approved for recovery. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On June 22, 2018, Duke Energy Carolinas received an order from the NCUC, which denied the Grid Rider Stipulation and deferral treatment of grid improvement costs. Duke Energy Carolinas and Duke Energy Progress have petitioned for deferral of future grid improvement costs in their 2019 rate cases. Electric Utilities and Infrastructure's results of operations, financial position and cash flows could be adversely impacted if grid improvement costs are not ultimately approved for recovery and/or deferral treatment.

During the last half of 2018, Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida's service territories were impacted by several named storms. Hurricane Florence, Hurricane Michael and Winter Storm Diego caused flooding, extensive damage and widespread power outages to the service territories of Duke Energy Carolinas and Duke Energy Progress. Duke Energy Florida's service territory was also impacted by Hurricane Michael, a Category 5 hurricane and the most powerful storm to hit the Florida Panhandle in recorded history. In September 2019, Hurricane Dorian impacted Duke Energy Progress and Duke Energy Florida's service territories. A significant portion of the incremental operation and maintenance expenses related to these storms

has been deferred. An order from regulatory authorities disallowing the deferral and future recovery of storm restoration costs could have an adverse impact on Electric Utilities and Infrastructure's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

In 2019, Duke Energy Indiana filed a general rate case with the IURC, and Duke Energy Carolinas and Duke Energy Progress filed general rate cases with the NCUC. The outcome of these rate cases could materially impact Electric Utilities and Infrastructure's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On April 17, 2015, the EPA published in the Federal Register a rule to regulate the disposal of CCR from electric utilities as solid waste. Duke Energy Indiana has interpreted the rule to identify the coal ash basin sites impacted and has assessed the amounts of coal ash subject to the rule and a method of compliance. Duke Energy Indiana's interpretation of the requirements of the CCR rule is subject to potential legal challenges and further regulatory approvals, which could result in additional ash basin closure requirements, higher costs of compliance and greater AROs. Additionally, Duke Energy Indiana has retired facilities that are not subject to the CCR rule. Duke Energy Indiana may incur costs at these facilities to comply with environmental regulations or to mitigate risks associated with on-site storage of coal ash. An order from regulatory authorities disallowing recovery of costs related to closure of ash basins could have an adverse impact on Duke Energy Indiana's results of operations, financial position and cash flows.

Within this Item 7, see Liquidity and Capital Resources for discussion of risks associated with the Tax Act.

Gas Utilities and Infrastructure

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Operating Revenues	\$ 1,866	\$ 1,881	\$ (15)
Operating Expenses			
Cost of natural gas	627	697	(70)
Operation, maintenance and other	446	421	25
Depreciation and amortization	256	245	11
Property and other taxes	106	107	(1)
Total operating expenses	1,435	1,470	(35)
Operating Income	431	411	20
Other Income and Expenses, net	140	47	93
Interest Expense	117	106	11
Income Before Income Taxes	454	352	102
Income Tax Expense	22	78	(56)
Segment Income	\$ 432	\$ 274	\$ 158
Piedmont Local Distribution Company (LDC) throughput (Dth)	511,243,774	557,145,128	(45,901,354)
Duke Energy Midwest LDC throughput (MCF)	89,025,972	90,604,833	(1,578,861)

Year Ended December 31, 2019, as compared to 2018

Gas Utilities and Infrastructure's results were primarily impacted by higher equity earnings at ACP, the OTTI recorded on the Constitution investment and a 2019 adjustment related to the income tax recognition for equity method investments. The equity method investment adjustment was immaterial and relates to prior years. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The variance was driven primarily by:

- a \$70 million decrease due to lower natural gas costs passed through to customers; and
- a \$13 million decrease due to rider revenues related to MGP and Accelerated Main Replacement Program.

Partially offset by:

- a \$37 million increase due to North Carolina and Kentucky base rate case increases;
- a \$19 million increase due to North Carolina and Tennessee IMR increases; and
- an \$11 million increase due to NCUC approval related to tax reform accounting from fixed rate contracts.

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PART II

Operating Expenses. The variance was driven primarily by:

- a \$70 million decrease in the cost of natural gas due to lower natural gas prices.

Partially offset by:

- a \$25 million increase in operation, maintenance and other expense primarily due to increased labor, benefits and information technology costs; and
- an \$11 million increase in depreciation and amortization expense due to additional plant in service.

Other Income and Expenses, net. The increase was primarily due to higher equity earnings at ACP as a result of higher cumulative project spending and a higher OTTI recorded on the Constitution investment in the prior year.

Interest Expense. The variance was driven by higher debt outstanding in the current year and higher interest expense due to customers as a result of tax reform deferrals, partially offset by favorable AFUDC debt interest.

Income Tax Expense. The decrease in tax expense was primarily due to an adjustment related to the income tax recognition for equity method investments, partially offset by an increase in pretax income. The equity method investment adjustment was immaterial and relates to prior years. The ETRs for the years ended December 31, 2019, and 2018, were 4.8% and 22.2%, respectively. The decrease in the ETR was primarily due to an adjustment related to the income tax recognition for equity method investments that was recorded during the first quarter of 2019 and current year AFUDC equity. The equity method investment adjustment was immaterial and relates to prior years.

Matters Impacting Future Gas Utilities and Infrastructure Results

Gas Utilities and Infrastructure has a 47% ownership interest in ACP, which is building an approximately 600-mile interstate natural gas pipeline intended to transport diverse natural gas supplies into southeastern markets. Affected states (West Virginia, Virginia and North Carolina) have issued certain necessary permits; the project remains subject to other pending federal and state approvals, which will allow full construction activities to begin. In 2018, FERC issued a series of Notices to Proceed, which authorized the project to begin certain construction-related activities along the pipeline route. Given legal challenges and ongoing discussions with customers, ACP expects mechanical completion of the full project in late 2021 with in-service likely in the first half of 2022. The delays resulting from legal challenges have also impacted the cost for the project. Project cost is approximately \$8 billion, excluding financing costs. This estimate is based on the current facts available around construction costs and timelines, and is subject to future changes as those facts develop. Abnormal weather, work delays (including delays due to judicial or regulatory action) and other conditions may result in cost or schedule modifications, a suspension of AFUDC for ACP and/or impairment charges potentially material to Duke Energy's cash flows, financial position and results of operations. ACP and Duke Energy will continue to consider their options with respect to the foregoing given their existing contractual and legal obligations. See Notes 4 and 18 to the Consolidated Financial Statements, "Regulatory Matters" and "Variable Interest Entities," respectively, for additional information.

On November 13, 2013, the PUCO issued an order authorizing recovery of MGP costs at certain sites in Ohio with a deadline to complete the MGP environmental investigation and remediation work prior to December 31, 2016. This deadline was subsequently extended to December 31, 2019. Duke Energy Ohio has filed a request for extension of the deadline. A hearing on that request has not been scheduled. Disallowance of costs incurred, failure to complete the work by the deadline or failure to obtain an extension from the PUCO could result in an adverse impact on Gas Utilities and Infrastructure's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see Liquidity and Capital Resources for discussion of risks associated with the Tax Act.

Commercial Renewables

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Operating Revenues	\$ 487	\$ 477	\$ 10
Operating Expenses			
Operation, maintenance and other	297	304	(7)
Depreciation and amortization	168	155	13
Property and other taxes	23	25	(2)
Impairment charges	—	93	(93)
Total operating expenses	488	577	(89)
Losses on Sales of Other Assets and Other, net	(3)	(1)	(2)
Operating Loss	(4)	(101)	97
Other Income and Expenses, net	5	23	(18)
Interest Expense	95	88	7
Loss Before Income Taxes	(94)	(166)	72
Income Tax Benefit	(115)	(147)	32
Less: Loss Attributable to Noncontrolling Interests	(177)	(28)	(149)
Segment Income	\$ 198	\$ 9	\$ 189
Renewable plant production, GWh	8,574	8,522	52
Net proportional MW capacity in operation ^(a)	3,485	2,991	494

(a) Certain projects are included in tax-equity structures where investors have differing interests in the project's economic attributes. In the table above, 100% of the tax-equity project's capacity is included.

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PART II

Year Ended December 31, 2019, as compared to 2018

Commercial Renewables' results were favorable primarily due to new tax equity solar projects in the current year and a prior year goodwill impairment charge. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The increase was primarily due to new solar projects placed in service and higher irradiance.

Operating Expenses. The decrease was primarily due to a goodwill impairment charge in the prior year, partially offset by increased depreciation due to new solar projects placed in service.

Other Income and Expenses, net. The decrease was primarily due to income from the FES settlement agreement in the prior year.

Income Tax Benefit. The decrease in the tax benefit was primarily driven by taxes associated with Duke Energy's interest in tax equity solar projects recorded during 2019 and a reduction in PTCs generated.

Loss Attributable to Noncontrolling Interests. The variance was primarily due to an increase in solar projects with tax equity investors. HLBV

Other

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Operating Revenues	\$ 95	\$ 89	\$ 6
Operating Expenses	117	380	(263)
Losses on Sales of Other Assets and Other, net	(2)	(96)	94
Operating Loss	(24)	(387)	363
Other Income and Expenses, net	145	73	72
Interest Expense	705	657	48
Loss Before Income Taxes	(584)	(971)	387
Income Tax Benefit	(173)	(282)	109
Less: Net Income Attributable to Noncontrolling Interests	—	5	(5)
Less: Preferred Dividends	41	—	41
Net Loss	\$ (452)	\$ (694)	\$ 242

Year Ended December 31, 2019, as compared to 2018

The variance was driven by the prior year severance charges related to a corporate initiative, prior year loss on sale of the retired Beckjord station, and the absence in the current year of costs related to the Piedmont acquisition, offset by obligations to the Duke Energy Foundation in 2019. The following is a detailed discussion of the variance drivers by line item.

Operating Expenses. The variance was primarily due to prior year severance charges related to a corporate initiative as well as costs associated with the Piedmont acquisition, partially offset by obligations to the Duke Energy Foundation in 2019.

Losses on Sales of Other Assets and Other, net. The variance was driven by the prior year loss on sale of the retired Beckjord station, including the transfer of coal ash basins and other real property and indemnification from all potential future claims related to the property, whether arising under environmental laws or otherwise.

SUBSIDIARY REGISTRANTS

Basis of Presentation

The results of operations and variance discussion for the Subsidiary Registrants is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

accounting was utilized, resulting in allocation of losses to the noncontrolling interest partners. See Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies" for more information.

Matters Impacting Future Commercial Renewables Results

Commercial Renewables continues to experience growth with tax equity projects; however, the future expiration of federal tax incentives could result in adverse impacts to future results of operations, financial position and cash flows.

During 2019, Duke Energy evaluated recoverability of its renewable merchant plants principally in the Electric Reliability Council of Texas West market, due to declining market pricing and declining long-term forecasted energy prices, primarily driven by lower forecasted natural gas prices. These assets were not impaired; however, a continued decline in energy market pricing would likely result in a future impairment. Impairment of these assets could result in adverse impacts to the future results of operations, financial position and cash flows of Commercial Renewables. See Note 11 to the Consolidated Financial Statements, "Property, Plant and Equipment," for additional information.

Within this Item 7, see Liquidity and Capital Resources for discussion of risks associated with the Tax Act.

Other Income and Expenses, net. The variance was primarily due to higher returns on investments that fund certain employee benefit obligations and Bison investment income.

Interest Expense. The variance was primarily due to higher outstanding debt in the current year and higher short-term interest rates.

Income Tax Benefit. The decrease in the tax benefit was primarily driven by a decrease in pretax losses.

Preferred Dividends. The variance was driven by the declarations of preferred stock dividend on preferred stock issued in 2019.

Matters Impacting Future Other Results

Within this Item 7, see Liquidity and Capital Resources for discussion of risks associated with the Tax Act.

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PART II

DUKE ENERGY CAROLINAS

Results of Operations

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Operating Revenues	\$ 7,395	\$ 7,300	\$ 95
Operating Expenses			
Fuel used in electric generation and purchased power	1,804	1,821	(17)
Operation, maintenance and other	1,868	2,130	(262)
Depreciation and amortization	1,388	1,201	187
Property and other taxes	292	295	(3)
Impairment charges	17	192	(175)
Total operating expenses	5,369	5,639	(270)
Losses on Sales of Other Assets and Other, net	—	(1)	1
Operating Income	2,026	1,660	366
Other Income and Expenses, net	151	153	(2)
Interest Expense	463	439	24
Income Before Income Taxes	1,714	1,374	340
Income Tax Expense	311	303	8
Net Income	\$ 1,403	\$ 1,071	\$ 332

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Carolinas. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities, public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2019	2018
Residential sales	(2.9)%	11.7%
General service sales	(0.1)%	4.5%
Industrial sales	(1.9)%	(0.3)%
Wholesale power sales	(13.6)%	12.5%
Joint dispatch sales	4.7%	23.1%
Total sales	(2.6)%	5.7%
Average number of customers	2.1%	1.5%

Year Ended December 31, 2019, as compared to 2018

Operating Revenues. The variance was driven primarily by:

- a \$178 million increase in retail pricing due to the impacts of the prior year North Carolina rate case and the current year South Carolina rate case.

Partially offset by:

- a \$41 million decrease in rider revenues primarily due to excess deferred taxes, partially offset by EE programs and a decrement rider relating to nuclear decommissioning that ended in the prior year;
- a \$14 million decrease in weather-normal retail sales volumes; and
- a \$7 million decrease in retail sales, net of fuel revenues, due to unfavorable weather in the current year.

Operating Expenses. The variance was driven primarily by:

- a \$262 million decrease in operation, maintenance and other expense primarily due to decreased labor and storm restoration costs; and
- a \$175 million decrease in impairment charges primarily due to impacts of the prior year North Carolina rate order, the repeal of the South Carolina Base Load Review Act and charges related to coal ash costs in South Carolina.

Partially offset by:

- a \$187 million increase in depreciation and amortization expense primarily due to additional plant in service, new depreciation rates associated with the prior year North Carolina rate case and the current year South Carolina rate case and higher amortization of deferred coal ash costs associated with the prior year North Carolina rate case.

Interest Expense. The variance was primarily due to higher debt outstanding in the current year.

Matters Impacting Future Results

On December 31, 2019, Duke Energy Carolinas entered into a settlement agreement with NCDEQ and certain community groups under which Duke Energy Carolinas agreed to excavate five of the six remaining coal ash basins in North Carolina with ash moved to on-site lined landfills. At the one remaining basin, uncapped basin ash will be excavated and moved to lined landfills. An order from regulatory authorities disallowing recovery of costs related to closure of these ash basins could have an adverse impact on Duke Energy Carolinas' results of operations, financial position and cash flows. See Notes 4 and 5 to the Consolidated Financial Statements, "Regulatory Matters" and "Commitments and Contingencies," respectively, for additional information.

PART II

Duke Energy Carolinas filed a general rate case with the NCUC on September 30, 2019. The outcome of this rate case could materially impact Duke Energy Carolinas' results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On May 21, 2019, the PSCSC issued an order granting Duke Energy Carolinas request for a retail rate increase but denying recovery of certain coal ash costs. Duke Energy Carolinas filed a notice of appeal with the South Carolina Supreme Court on November 15, 2019. Appellant briefs are due on March 2, 2020, and Appellee response briefs are due on May 15, 2020. Duke Energy Carolinas' results of operations, financial position and cash flows could be adversely impacted if coal ash costs are not ultimately approved for recovery. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On June 22, 2018, Duke Energy Carolinas received an order from the NCUC, which denied the Grid Rider Stipulation and deferral treatment of grid improvement

costs. Duke Energy Carolinas has petitioned for deferral of future grid improvement costs in its 2019 rate case. Duke Energy Carolinas' results of operations, financial position and cash flows could be adversely impacted if grid improvement costs are not ultimately approved for recovery and/or deferral treatment.

During the last half of 2018, Duke Energy Carolinas' service territory was impacted by several named storms. Hurricane Florence, Hurricane Michael and Winter Storm Diego caused flooding, extensive damage and widespread power outages in the service territory. A significant portion of the incremental operation and maintenance expenses related to these storms has been deferred. An order from regulatory authorities disallowing the deferral and future recovery of storm restoration costs could have an adverse impact on Duke Energy Carolinas' results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see Liquidity and Capital Resources for discussion of risks associated with the Tax Act.

PROGRESS ENERGY

Results of Operations

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Operating Revenues	\$ 11,202	\$ 10,728	\$ 474
Operating Expenses			
Fuel used in electric generation and purchased power	4,024	3,976	48
Operation, maintenance and other	2,495	2,613	(118)
Depreciation and amortization	1,845	1,619	226
Property and other taxes	561	529	32
Impairment charges	(24)	87	(111)
Total operating expenses	8,901	8,824	77
Gains on Sales of Other Assets and Other, net	—	24	(24)
Operating Income	2,301	1,928	373
Other Income and Expenses, net	141	165	(24)
Interest Expense	862	842	20
Income Before Income Taxes	1,580	1,251	329
Income Tax Expense	253	218	35
Net Income	1,327	1,033	294
Less: Net Income Attributable to Noncontrolling Interests	—	6	(6)
Net Income Attributable to Parent	\$ 1,327	\$ 1,027	\$ 300

Year Ended December 31, 2019, as compared to 2018

Operating Revenues. The variance was driven primarily by:

- a \$366 million increase in retail pricing primarily due to the impacts of the prior year North Carolina rate case and current year South Carolina rate case at Duke Energy Progress, Duke Energy Florida's base rate adjustments related to Citrus County CC being placed in service and annual increases from the 2017 Settlement Agreement;
- a \$70 million increase in wholesale power revenues, net of fuel, primarily due to coal ash cost recovery in the current year at Duke Energy Progress and increased demand at Duke Energy Florida;
- a \$42 million increase in fuel revenues primarily related to increased fuel cost recovery due to extreme weather in the prior year at Duke Energy Progress, partially offset by a decrease in fuel and capacity rates billed to retail customers at Duke Energy Florida;
- a \$22 million increase in retail sales, net of fuel revenues, due to favorable weather in the current year at Duke Energy Florida; and

- a \$21 million increase in other revenues primarily due to increased transmission revenues and nonregulated products and services revenues at Duke Energy Florida.

Partially offset by:

- a \$47 million decrease in retail rider revenues primarily related to decreased revenue requirements in the current year; and
- a \$14 million decrease in weather-normal retail sales volumes at Duke Energy Florida.

Operating Expenses. The variance was driven primarily by:

- a \$226 million increase in depreciation and amortization expense primarily due to higher amortization of deferred coal ash costs, new depreciation rates associated with the prior year Duke Energy Progress North Carolina rate case and Duke Energy Florida's base rate adjustments related to Citrus County CC being placed in service;

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PART II

- a \$48 million increase in fuel used in electric generation and purchased power primarily due to an increase in the North Carolina Renewable Energy and Energy Efficiency Portfolio Standard requirement from the prior year at Duke Energy Progress, partially offset by lower purchased power and lower fuel costs, net of deferrals, at Duke Energy Florida; and
- a \$32 million increase in property and other taxes primarily due to current year property tax reassessments and a favorable sales and use tax credit in the prior year at Duke Energy Progress and higher property taxes for additional plant in service at Duke Energy Florida.

Partially offset by:

- a \$118 million decrease in operation, maintenance and other expense primarily due to lower storm costs, reduced outage costs, and lower employee benefit costs, partially offset by increased vegetation management costs at Duke Energy Florida; and
- a \$111 million decrease in impairment charges primarily due to prior year impacts associated with the North Carolina rate case at Duke Energy Progress as well as the impairment of Duke Energy Florida's Citrus County CC.

Other Income and Expenses, net. The variance was driven primarily by AFUDC equity return ending on the Citrus County CC in the fourth quarter of 2018 at Duke Energy Florida, partially offset by life insurance proceeds at Duke Energy Progress.

Interest Expense. The variance was driven primarily by AFUDC debt return ending in the fourth quarter of 2018 on the Citrus County CC at Duke Energy Florida.

Income Tax Expense. The increase in tax expense was primarily due to an increase in pretax income, partially offset by an increase in the amortization of excess deferred taxes and a Tax Act adjustment in the prior year related to excess deferred taxes.

Matters Impacting Future Results

On December 31, 2019, Duke Energy Progress entered into a settlement agreement with NCDEQ and certain community groups under which Duke Energy Progress agreed to excavate two of the three remaining coal ash basins in

North Carolina with ash moved to on-site lined landfills. At the one remaining basin, uncapped basin ash will be excavated and moved to lined landfills. An order from regulatory authorities disallowing recovery of costs related to closure of these ash basins could have an adverse impact on Duke Energy Progress' results of operations, financial position and cash flows. See Notes 4 and 5 to the Consolidated Financial Statements, "Regulatory Matters" and "Commitments and Contingencies," respectively, for additional information.

Duke Energy Progress filed a general rate case with the NCUC on October 30, 2019. The outcome of this rate case could materially impact Progress Energy's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On May 21, 2019, the PSCSC issued an order granting Duke Energy Progress' request for a retail rate increase but denying recovery of certain coal ash costs. Duke Energy Progress filed a notice of appeal with the South Carolina Supreme Court on November 15, 2019. Appellant briefs are due on March 2, 2020, and Appellee response briefs are due on May 15, 2020. Progress Energy's results of operations, financial position and cash flows could be adversely impacted if coal ash costs are not ultimately approved for recovery. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Duke Energy Progress has petitioned for deferral of future grid improvement costs in its 2019 rate case. Progress Energy's results of operations, financial position and cash flows could be adversely impacted if grid improvement costs are not ultimately approved for recovery and/or deferral treatment.

During the last half of 2018, Duke Energy Progress and Duke Energy Florida's service territories were impacted by several named storms. Hurricane Florence, Hurricane Michael and Winter Storm Diego caused flooding, extensive damage and widespread power outages to the service territory of Duke Energy Progress. Duke Energy Florida's service territory was also impacted by Hurricane Michael, a Category 5 hurricane and the most powerful storm to hit the Florida Panhandle in recorded history. In September 2019, Hurricane Dorian impacted Duke Energy Progress' and Duke Energy Florida's service territories. A significant portion of the incremental operation and maintenance expenses related to these storms has been deferred. An order from regulatory authorities disallowing the deferral and future recovery of storm restoration costs could have an adverse impact on Progress Energy's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see Liquidity and Capital Resources for discussion of risks associated with the Tax Act.

DUKE ENERGY PROGRESS

Results of Operations

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Operating Revenues	\$ 5,957	\$ 5,699	\$ 258
Operating Expenses			
Fuel used in electric generation and purchased power	2,012	1,892	120
Operation, maintenance and other	1,446	1,578	(132)
Depreciation and amortization	1,143	991	152
Property and other taxes	176	155	21
Impairment charges	12	33	(21)
Total operating expenses	4,789	4,649	140
Gains on Sales of Other Assets and Other, net	—	9	(9)
Operating Income	1,168	1,059	109
Other Income and Expenses, net	100	87	13
Interest Expense	306	319	(13)
Income Before Income Taxes	962	827	135
Income Tax Expense	157	160	(3)
Net Income	\$ 805	\$ 667	\$ 138

PART II

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Progress. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities, public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2019	2018
Residential sales	(4.0)%	9.9%
General service sales	(1.6)%	2.3%
Industrial sales	0.6%	0.8%
Wholesale power sales	(1.5)%	4.6%
Joint dispatch sales	(0.8)%	2.1%
Total sales	(1.4)%	3.8%
Average number of customers	1.3%	1.5%

Year Ended December 31, 2019, as compared to 2018

Operating Revenues. The variance was driven primarily by:

- a \$110 million increase in retail pricing due to the impacts of the prior year North Carolina rate case and the current year South Carolina rate case;
- a \$101 million increase in fuel revenues primarily related to increased fuel cost recovery due to extreme weather in the prior year; and
- a \$54 million increase in wholesale power revenues, net of fuel, primarily due to coal ash cost recovery in the current year.

Partially Offset by:

- a \$21 million decrease primarily due to the return of excess deferred incomes taxes created by the reduction in the corporate income tax rate, partially offset by an increase in rider revenues related to EE programs.

Operating Expenses. The variance was driven primarily by:

- a \$152 million increase in depreciation and amortization expense primarily due to higher amortization of deferred coal ash costs and new depreciation rates associated with the prior year North Carolina and current year South Carolina rate cases, partially offset by the amortization credit for the North Carolina Renewable Energy and Energy Efficiency Portfolio Standard requirement increase from prior year;
- a \$120 million increase in fuel used in electric generation and purchased power primarily due to a higher deferred fuel balance and an increase in the North Carolina Renewable Energy and Energy Efficiency Portfolio Standard requirement from prior year, partially offset by lower demand and changes in generation mix; and
- a \$21 million increase in property and other taxes primarily due to current year property tax reassessments and a favorable sales and use tax credit in the prior year.

Partially offset by:

- a \$132 million decrease in operation, maintenance and other expense primarily due to lower storm costs in current year, reduced outage costs and lower employee benefit costs; and
- a \$21 million decrease in impairment charges primarily due to prior year impacts associated with the North Carolina rate case.

Other Income and Expenses, net. The variance was driven primarily by life insurance proceeds.

Interest Expense. The variance was driven primarily by lower interest rates on outstanding debt.

Matters Impacting Future Results

On December 31, 2019, Duke Energy Progress entered into a settlement agreement with NCDEQ and certain community groups under which Duke Energy Progress agreed to excavate two of the three remaining coal ash basins in North Carolina with ash moved to on-site lined landfills. At the one remaining basin, uncapped basin ash will be excavated and moved to lined landfills. An order from regulatory authorities disallowing recovery of costs related to closure of these ash basins could have an adverse impact on Duke Energy Progress' results of operations, financial position and cash flows. See Notes 4 and 5 to the Consolidated Financial Statements, "Regulatory Matters" and "Commitments and Contingencies," respectively, for additional information.

Duke Energy Progress filed a general rate case with the NCUC on October 30, 2019. The outcome of this rate case could materially impact Duke Energy Progress' results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

On May 21, 2019, the PSCSC issued an order granting Duke Energy Progress' request for a retail rate increase but denying recovery of certain coal ash costs. Duke Energy Progress filed a notice of appeal with the South Carolina Supreme Court on November 15, 2019. Appellant briefs are due on March 2, 2020, and Appellee response briefs are due on May 15, 2020. Duke Energy Progress' results of operations, financial position and cash flows could be adversely impacted if coal ash costs are not ultimately approved for recovery. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Duke Energy Progress has petitioned for deferral of future grid improvement costs in its 2019 rate case. Duke Energy Progress' results of operations, financial position and cash flows could be adversely impacted if grid improvement costs are not ultimately approved for recovery and/or deferral treatment.

During the last half of 2018, Duke Energy Progress' service territory was impacted by several named storms. Hurricane Florence, Hurricane Michael and Winter Storm Diego caused flooding, extensive damage and widespread power outages in the service territory. In September 2019, Hurricane Dorian reached the Carolinas bringing high winds, tornadoes and heavy rain, impacting about 300,000 customers within the service territory. A significant portion of the incremental operation and maintenance expenses related to these storms has been deferred. An order from regulatory authorities disallowing the deferral and future recovery of storm restoration costs could have an adverse impact on Duke Energy Progress' results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see Liquidity and Capital Resources for discussion of risks associated with the Tax Act.

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PART II

DUKE ENERGY FLORIDA

Results of Operations

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Operating Revenues	\$ 5,231	\$ 5,021	\$ 210
Operating Expenses			
Fuel used in electric generation and purchased power	2,012	2,085	(73)
Operation, maintenance and other	1,034	1,025	9
Depreciation and amortization	702	628	74
Property and other taxes	392	374	18
Impairment charges	(36)	54	(90)
Total operating expenses	4,104	4,166	(62)
Gains on Sales of Other Assets and Other, net	—	1	(1)
Operating Income	1,127	856	271
Other Income and Expenses, net	48	86	(38)
Interest Expense	328	287	41
Income Before Income Taxes	847	655	192
Income Tax Expense	155	101	54
Net Income	\$ 692	\$ 554	\$ 138

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Florida. The below percentages for retail customer classes represent billed sales only. Wholesale power sales include both billed and unbilled sales. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities, public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2019	2018
Residential sales	0.7%	4.3%
General service sales	0.3%	1.9%
Industrial sales	(4.6)%	(0.4)%
Wholesale power sales	28.8%	5.2%
Total sales	1.5%	2.4%
Average number of customers	1.6%	1.5%

Year Ended December 31, 2019, as compared to 2018

Operating Revenues. The variance was driven primarily by:

- a \$256 million increase in retail pricing due to base rate adjustments related to Citrus County CC being placed in service, annual increases from the 2017 Settlement Agreement and the Solar Base Rate Adjustment;
- a \$22 million increase in retail sales, net of fuel revenues, due to favorable weather in the current year;
- a \$21 million increase in other revenues primarily due to increased transmission revenues and nonregulated products and services revenues; and
- a \$16 million increase in wholesale power revenues, net of fuel, primarily due to increased demand.

Partially offset by:

- a \$59 million decrease in fuel and capacity revenues primarily due to a decrease in fuel and capacity rates billed to retail customers;
- a \$33 million decrease in retail rider revenues primarily related to decreased revenue requirements in the current year; and
- a \$14 million decrease in weather-normal retail sales volumes.

Operating Expenses. The variance was driven primarily by:

- a \$90 million decrease in impairment charges primarily due to a prior year impairment at Citrus County CC and a reduction of the impairment in the current year; and
- a \$73 million decrease in fuel used in electric generation and purchased power primarily due to lower purchased power and lower fuel costs, net of deferrals.

Partially offset by:

- a \$74 million increase in depreciation and amortization expense primarily due to base rate adjustments related to Citrus County CC being placed in service, other additional plant in service and increases resulting from the 2018 Crystal River Unit 3 nuclear decommissioning cost study;
- an \$18 million increase in property and other taxes primarily due to higher property taxes from additional plant in service; and
- a \$9 million increase in operation, maintenance and other expense primarily due to increased vegetation management costs and deregulation initiative costs, partially offset by lower severance charges.

Other Income and Expenses, net. The variance was driven primarily by AFUDC equity return ending on the Citrus County CC in the fourth quarter of 2018.

PART II

Interest Expense. The variance was driven primarily by AFUDC debt return ending on the Citrus County CC in the fourth quarter of 2018 and higher debt outstanding in the current year.

Income Tax Expense. The increase in tax expense was primarily due to an increase in pretax income in the current year.

Matters Impacting Future Results

On October 10, 2018, Hurricane Michael made landfall on Florida's Panhandle as a Category 5 hurricane, the most powerful storm to hit the Florida Panhandle in recorded history. The storm caused significant damage within the service territory of Duke Energy Florida, particularly from Panama City Beach to

Mexico Beach. In September 2019, Duke Energy Florida's service territory was threatened by Hurricane Dorian with landfall as a possible Category 5 hurricane and therefore Duke Energy Florida incurred costs to secure necessary resources to be prepared for that potential impact. A significant portion of the incremental operation and maintenance expenses related to these storms has been deferred. An order from regulatory authorities disallowing the future recovery of storm restoration costs could have an adverse impact on Duke Energy Florida's financial position, results of operations and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see Liquidity and Capital Resources for discussion of risks associated with the Tax Act.

DUKE ENERGY OHIO

Results of Operations

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Operating Revenues			
Regulated electric	\$ 1,456	\$ 1,450	\$ 6
Regulated natural gas	484	506	(22)
Nonregulated electric and other	—	1	(1)
Total operating revenues	1,940	1,957	(17)
Operating Expenses			
Fuel used in electric generation and purchased power – regulated	388	412	(24)
Cost of natural gas	95	113	(18)
Operation, maintenance and other	520	480	40
Depreciation and amortization	265	268	(3)
Property and other taxes	308	290	18
Total operating expenses	1,576	1,563	13
Losses on Sales of Other Assets and Other, net	—	(106)	106
Operating Income	364	288	76
Other Income and Expenses, net	24	23	1
Interest Expense	109	92	17
Income from Continuing Operations Before Income Taxes	279	219	60
Income Tax Expense from Continuing Operations	40	43	(3)
Income from Continuing Operations	239	176	63
Loss from Discontinued Operations, net of tax	(1)	—	(1)
Net Income	\$ 238	\$ 176	\$ 62

The following table shows the percent changes in GWh sales of electricity, MCF of natural gas delivered and average number of electric and natural gas customers for Duke Energy Ohio. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities, public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	Electric		Natural Gas	
	2019	2018	2019	2018
Residential sales	(3.9)%	12.2%	(3.7)%	18.0%
General service sales	(1.9)%	3.3%	(1.2)%	15.4%
Industrial sales	(2.1)%	1.0%	(0.4)%	8.1%
Wholesale electric power sales	(4.9)%	(46.6)%	n/a	n/a
Other natural gas sales	n/a	n/a	0.7%	0.7%
Total sales	(2.4)%	2.8%	(1.7)%	11.9%
Average number of customers	0.7%	0.8%	0.7%	0.9%

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Step 13 2021

PART II

Year Ended December 31, 2019, as compared to 2018

Operating Revenues. The variance was driven primarily by:

- a \$45 million decrease in fuel related revenues primarily due to a decrease in price;
- a \$31 million decrease in rider revenues primarily due to the cessation of the Smart Grid Rider in 2018 and the Tax Cut and Jobs Act Rider beginning in 2019, partially offset by new riders implemented in conjunction with rate cases including the Price Stabilization Rider, Electric Service Reliability Rider and the Environmental Surcharge Mechanism;
- a \$15 million decrease in FTR rider revenues; and
- a \$12 million decrease in electric and natural gas retail sales, net of fuel revenues, due to unfavorable weather in the current year.

Partially offset by:

- a \$71 million increase in retail pricing primarily due to rate case impacts; and
- an \$18 million increase in PJM point-to-point transmission revenues due to an increase in the Network Integration Transmission Service rate primarily due to additional plant in service.

Operating Expenses. The variance was driven primarily by:

- a \$40 million increase in operations, maintenance and other expense primarily due to the FERC approved settlement refund of certain transmission costs previously billed by PJM recorded in 2018 and increased PJM transmission expansion fees; and

- an \$18 million increase in property and other taxes primarily due to additional plant in service, partially offset by a negotiated reassessment of property values and property tax true ups for prior periods.

Partially offset by:

- a \$24 million decrease in fuel used in electric generation and purchased power expense due to the prior year outage at East Bend Station and the deferral of OVEC related purchased power costs; and
- an \$18 million decrease in the cost of natural gas primarily due to lower costs passed through to customers, as a result of a lower natural gas prices.

Losses on Sales of Other Assets and Other, net. The increase was driven by the loss on the prior year sale of Beckjord.

Interest Expense. The variance was primarily due to higher debt outstanding in the current year.

Matters Impacting Future Results

On November 13, 2013, the PUCO issued an order authorizing recovery of MGP costs at certain sites in Ohio with a deadline to complete the MGP environmental investigation and remediation work prior to December 31, 2016. This deadline was subsequently extended to December 31, 2019. Duke Energy Ohio has filed a request for extension of the deadline. A hearing on that request has not been scheduled. Disallowance of costs incurred, failure to complete the work by the deadline or failure to obtain an extension from the PUCO could result in an adverse impact on Duke Energy Ohio's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see Liquidity and Capital Resources for discussion of risks associated with the Tax Act.

DUKE ENERGY INDIANA

Results of Operations

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Operating Revenues	\$ 3,004	\$ 3,059	\$ (55)
Operating Expenses			
Fuel used in electric generation and purchased power	935	1,000	(65)
Operation, maintenance and other	790	788	2
Depreciation and amortization	525	520	5
Property and other taxes	69	78	(9)
Impairment charges	—	30	(30)
Total operating expenses	2,319	2,416	(97)
Operating Income	685	643	42
Other Income and Expenses, net	41	45	(4)
Interest Expense	156	167	(11)
Income Before Income Taxes	570	521	49
Income Tax Expense	134	128	6
Net Income	\$ 436	\$ 393	\$ 43

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PART II

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Indiana. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities, public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2019	2018
Residential sales	(3.9)%	12.5%
General service sales	(2.2)%	2.8%
Industrial sales	(2.6)%	0.5%
Wholesale power sales	(27.7)%	(0.9)%
Total sales	(6.8)%	3.3%
Average number of customers	1.2%	1.3%

Year Ended December 31, 2019, as compared to 2018

Operating Revenues. The variance was driven primarily by:

- a \$21 million decrease in wholesale power revenues primarily due to the expiration of a contract with a wholesale customer;
- a \$16 million decrease in other transmission FTR revenues due to lower congestion; and
- a \$14 million decrease in weather-normal retail sales volume.

Operating Expenses. The variance was driven primarily by:

- a \$65 million decrease in fuel used in electric generation and purchased power expense primarily due to lower coal and natural gas costs, partially offset by higher purchase power fuel clause, higher amortization of deferred fuel costs and higher deferred MISO charges; and
- a \$30 million decrease in impairments primarily due to the prior year Edwardsport IGCC settlement agreement.

Matters Impacting Future Results

On April 17, 2015, the EPA published in the Federal Register a rule to regulate the disposal of CCR from electric utilities as solid waste. Duke Energy Indiana has interpreted the rule to identify the coal ash basin sites impacted and has assessed the amounts of coal ash subject to the rule and a method of compliance. Duke Energy Indiana's interpretation of the requirements of the CCR rule is subject to potential legal challenges and further regulatory approvals, which could result in additional ash basin closure requirements, higher costs of compliance and greater AROs. Additionally, Duke Energy Indiana has retired facilities that are not subject to the CCR rule. Duke Energy Indiana may incur costs at these facilities to comply with environmental regulations or to mitigate risks associated with on-site storage of coal ash. An order from regulatory authorities disallowing recovery of costs related to closure of ash basins could have an adverse impact on Duke Energy Indiana's results of operations, financial position and cash flows.

Duke Energy Indiana filed a general rate case with the IURC on July 2, 2019, its first general rate case in Indiana in 16 years. The outcome of this rate case could materially impact Duke Energy Indiana's results of operations, financial position and cash flows. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

Within this Item 7, see Liquidity and Capital Resources for discussion of risks associated with the Tax Act.

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Results of Operations

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Operating Revenues	\$ 1,381	\$ 1,375	\$ 6
Operating Expenses			
Cost of natural gas	532	584	(52)
Operation, maintenance and other	328	357	(29)
Depreciation and amortization	172	159	13
Property and other taxes	45	49	(4)
Total operating expenses	1,077	1,149	(72)
Operating Income	304	226	78
Equity in earnings of unconsolidated affiliates	8	7	1
Other income and expenses, net	20	14	6
Total other income and expenses	28	21	7
Interest Expense	87	81	6
Income Before Income Taxes	245	166	79
Income Tax Expense	43	37	6
Net Income	\$ 202	\$ 129	\$ 73

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PART II

The following table shows the percent changes in Dth delivered and average number of customers. The percentages for all throughput deliveries represent billed and unbilled sales. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2019	2018
Residential deliveries	(8.0)%	23.6%
Commercial deliveries	(4.6)%	14.9%
Industrial deliveries	1.7%	4.2%
Power generation deliveries	(11.8)%	23.6%
For resale	4.8%	17.0%
Total throughput deliveries	(8.2)%	19.0%
Secondary market volumes	(0.5)%	(8.1)%
Average number of customers	1.4%	1.6%

Piedmont's throughput was 511,243,774 Dth and 557,145,128 Dth for the years ended December 31, 2019, and 2018, respectively. Due to the margin decoupling mechanism in North Carolina, WNA mechanisms in South Carolina and Tennessee and fixed price contracts with most power generation customers, changes in throughput deliveries do not have a material impact on Piedmont's revenues or earnings. The margin decoupling mechanism adjusts for variations in residential and commercial use per customer, including those due to weather and conservation. The WNA mechanisms mostly offset the impact of weather on bills rendered, but do not ensure full recovery of approved margin during periods when winter weather is significantly warmer or colder than normal.

Year Ended December 31, 2019, as compared to 2018

Operating Revenues. The variance was driven primarily by:

- a \$24 million increase due to North Carolina base rate case increases;
- a \$19 million increase due to North Carolina and Tennessee IMR increases; and
- an \$11 million increase due to NCUC approval related to tax reform accounting from fixed rate contracts.

Partially offset by:

- a \$52 million decrease due to lower natural gas costs passed through to customers.

Operating Expenses. The variance was driven primarily by:

- a \$52 million decrease in cost of natural gas due to lower natural gas prices; and
- a \$29 million decrease in operation, maintenance and other expense due to lower information technology outside services and labor costs.

Partially offset by:

- a \$13 million increase in depreciation and amortization expense due to additional plant in service.

Matters Impacting Future Results

Within this Item 7, see Liquidity and Capital Resources for discussion of risks associated with the Tax Act.

CRITICAL ACCOUNTING POLICIES AND ESTIMATES

Preparation of financial statements requires the application of accounting policies, judgments, assumptions and estimates that can significantly affect the reported results of operations, cash flows or the amounts of assets and liabilities recognized in the financial statements. Judgments made include the likelihood of success of particular projects, possible legal and regulatory

challenges, earnings assumptions on pension and other benefit fund investments and anticipated recovery of costs, especially through regulated operations.

Management discusses these policies, estimates and assumptions with senior members of management on a regular basis and provides periodic updates on management decisions to the Audit Committee. Management believes the areas described below require significant judgment in the application of accounting policy or in making estimates and assumptions that are inherently uncertain and that may change in subsequent periods.

For further information, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

Regulated Operations Accounting

Substantially all of Duke Energy's regulated operations meet the criteria for application of regulated operations accounting treatment. As a result, Duke Energy is required to record assets and liabilities that would not be recorded for nonregulated entities. Regulatory assets generally represent incurred costs that have been deferred because such costs are probable of future recovery in customer rates. Regulatory liabilities are recorded when it is probable that a regulator will require Duke Energy to make refunds to customers or reduce rates to customers for previous collections or deferred revenue for costs that have yet to be incurred.

Management continually assesses whether recorded regulatory assets are probable of future recovery by considering factors such as:

- applicable regulatory environment changes;
- historical regulatory treatment for similar costs in Duke Energy's jurisdictions;
- litigation of rate orders;
- recent rate orders to other regulated entities;
- levels of actual return on equity compared to approved rates of return on equity; and
- the status of any pending or potential deregulation legislation.

If future recovery of costs ceases to be probable, asset write-offs would be recognized in operating income. Additionally, regulatory agencies can provide flexibility in the manner and timing of the depreciation of property, plant and equipment, recognition of asset retirement costs and amortization of regulatory assets, or may disallow recovery of all or a portion of certain assets.

As required by regulated operations accounting rules, significant judgment can be required to determine if an otherwise recognizable incurred cost qualifies to be deferred for future recovery as a regulatory asset. Significant judgment can also be required to determine if revenues previously recognized are for entity specific costs that are no longer expected to be incurred or have not yet been incurred and are therefore a regulatory liability.

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PART II

Goodwill Impairment Assessments

Duke Energy performed its annual goodwill impairment tests for all reporting units as of August 31, 2019. Additionally, Duke Energy monitors all relevant events and circumstances during the year to determine if an interim impairment test is required. Such events and circumstances include an adverse regulatory outcome, declining financial performance and deterioration of industry or market conditions. As of August 31, 2019, all of the reporting units' estimated fair value of equity substantially exceeded the carrying value of equity. The fair values of the reporting units were calculated using a weighted combination of the income approach, which estimates fair value based on discounted cash flows, and the market approach, which estimates fair value based on market comparables within the utility and energy industries.

Estimated future cash flows under the income approach are based on Duke Energy's internal business plan. Significant assumptions used are growth rates, future rates of return expected to result from ongoing rate regulation and discount rates. Management determines the appropriate discount rate for each of its reporting units based on the WACC for each individual reporting unit. The WACC takes into account both the after-tax cost of debt and cost of equity. A major component of the cost of equity is the current risk-free rate on 20-year U.S. Treasury bonds. In the 2019 impairment tests, Duke Energy considered implied WACCs for certain peer companies in determining the appropriate WACC rates to use in its analysis. As each reporting unit has a different risk profile based on the nature of its operations, including factors such as regulation, the WACC for each reporting unit may differ. Accordingly, the WACCs were adjusted, as appropriate, to account for company specific risk premiums. The discount rates used for calculating the fair values as of August 31, 2019, for each of Duke Energy's reporting units ranged from 5.2% to 5.9%. The underlying assumptions and estimates are made as of a point in time. Subsequent changes, particularly changes in the discount rates, authorized regulated rates of return or growth rates inherent in management's estimates of future cash flows, could result in future impairment charges.

One of the most significant assumptions utilized in determining the fair value of reporting units under the market approach is implied market multiples for certain peer companies. Management selects comparable peers based on each peer's primary business mix, operations, and market capitalization compared to the applicable reporting unit and calculates implied market multiples based on available projected earnings guidance and peer company market values as of August 31.

Duke Energy primarily operates in environments that are rate-regulated. In such environments, revenue requirements are adjusted periodically by regulators based on factors including levels of costs, sales volumes and costs of capital. Accordingly, Duke Energy's regulated utilities operate to some degree with a buffer from the direct effects, positive or negative, of significant swings in market or economic conditions. However, significant changes in discount rates over a prolonged period may have a material impact on the fair value of equity.

For further information, see Note 12 to the Consolidated Financial Statements, "Goodwill and Intangible Assets."

Asset Retirement Obligations

AROs are recognized for legal obligations associated with the retirement of property, plant and equipment at the present value of the projected liability in the period in which it is incurred, if a reasonable estimate of fair value can be made.

The present value of the initial obligation and subsequent updates are based on discounted cash flows, which include estimates regarding timing of future cash flows, selection of discount rates and cost escalation rates, among other factors. These estimates are subject to change.

Obligations for nuclear decommissioning are based on site-specific cost studies. Duke Energy Carolinas and Duke Energy Progress assume prompt dismantlement of the nuclear facilities after operations are ceased. During 2019, Duke Energy Florida, entered into an agreement for the accelerated decommissioning of the Crystal River Unit 3 nuclear power station. Closing of this agreement is contingent upon approval of the NRC and FPSC. The

retirement obligations for the decommissioning of Crystal River Unit 3 nuclear power station are measured using probability weightings of an obligation based on accelerated decommissioning from 2020 continuing through 2027 and an obligation based on the unit in SAFSTOR, with decommissioning beginning in 2067 and ending in 2074. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida also assume that spent fuel will be stored on-site until such time that it can be transferred to a yet to be built DOE facility.

Obligations for closure of ash basins are based upon discounted cash flows of estimated costs for site-specific plans. During 2019, Duke Energy reached a settlement agreement with the NCDEQ and SELC to excavate 7 and partially excavate 2 of the remaining ash basins in Duke Energy Carolinas and Duke Energy Progress service territories. In 2019, Duke Energy Carolinas and Duke Energy Progress remeasured their obligations to reflect the results of the settlement.

For further information, see Notes 4, 5 and 10 to the Consolidated Financial Statements, "Regulatory Matters," "Commitments and Contingencies" and "Asset Retirement Obligations."

Long-Lived Asset Impairment Assessments, Excluding Regulated Operations

Duke Energy evaluates property, plant and equipment for impairment when events or changes in circumstances (such as a significant change in cash flow projections or the determination that it is more likely than not that an asset or asset group will be sold) indicate the carrying value of such assets may not be recoverable. The determination of whether an impairment has occurred is based on an estimate of undiscounted future cash flows attributable to the assets, as compared with their carrying value.

Performing an impairment evaluation involves a significant degree of estimation and judgment in areas such as identifying circumstances that indicate an impairment may exist, identifying and grouping affected assets and developing the undiscounted future cash flows. If an impairment has occurred, the amount of the impairment recognized is determined by estimating the fair value and recording a loss if the carrying value is greater than the fair value. Additionally, determining fair value requires probability weighting future cash flows to reflect expectations about possible variations in their amounts or timing and the selection of an appropriate discount rate. Although cash flow estimates are based on relevant information available at the time the estimates are made, estimates of future cash flows are, by nature, highly uncertain and may vary significantly from actual results.

When determining whether an asset or asset group has been impaired, management groups assets at the lowest level that has discrete cash flows.

During 2019, Duke Energy sold a minority interest in a portion of certain Commercial Renewable assets. Following the sale, Duke Energy evaluated recoverability of the assets included in the sale as the fair value of consideration received for the portfolio was less than the carrying value of the assets. It was determined the assets were all recoverable. Additionally, Duke Energy evaluated recoverability of certain renewable merchant plants during 2019 due to declining market pricing and declining long-term forecasted energy prices. It was determined the assets were all recoverable as the carrying value of the assets approximated the aggregate estimated future cash flows.

For further information, see Notes 3 and 11 to the Consolidated Financial Statements, "Business Segments" and "Property, Plant and Equipment."

Equity Method Investments

Equity method investments are assessed for impairment when conditions exist that indicate that the fair value of the investment is less than book value. If the decline in value is considered to be other-than-temporary, an impairment charge is recorded and the investment is written down to its estimated fair value, which establishes a new cost basis in the investment.

Events or changes in circumstances are monitored that may indicate, in management's judgment, the carrying value of such investments may have experienced an other-than-temporary decline in value. The fair value of equity method investments is generally estimated using an income approach where

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SEP 13 2021

PART II

significant judgments and assumptions include expected future cash flows, the appropriate discount rate, and probability weighted-scenarios, if applicable. In certain instances, a market approach may also be used to estimate the fair value of the equity method investment.

Events or changes in circumstances that may be indicative of an other-than-temporary decline in value will vary by investment, but may include:

- Significant delays in or failure to complete significant growth projects of investees;
- Adverse regulatory actions expected to substantially reduce the investee's product demand or profitability;
- Expected financial performance significantly worse than anticipated when initially invested;
- Prolonged period the fair value is below carrying value;
- A significant or sustained decline in the market value of an investee;
- Lower than expected cash distributions from investees;
- Significant asset impairments or operating losses recognized by investees; and
- Loss of significant customers or suppliers with no immediate prospects for replacement.

ACP

As of December 31, 2019, the carrying value of the equity method investment in ACP is \$1.2 billion, and Duke Energy's maximum exposure to loss for its guarantee of the ACP revolving credit facility is \$827 million. During 2018 and 2019, ACP received several adverse court rulings as described in Note 4 to the Consolidated Financial Statements, "Regulatory Matters." As a result, Duke Energy evaluated this investment for impairment and determined that fair value approximated carrying value and therefore no impairment was necessary.

Duke Energy estimated the fair value of its investment in ACP using an income approach that primarily considered probability-weighted scenarios of discounted future net cash flows based on the most recent estimate of total construction costs and revenues. These scenarios included assumptions of various court decisions and the impact those decisions may have on the timing and extent of investment, including scenarios assuming the full resolution of permitting issues in addition to a scenario where the project does not proceed. Certain scenarios within the analysis included growth expectations from additional compression or other expansion opportunities and reopeners for pricing. An after-tax discount rate of 5.9% was used in the analysis. The discount rate was derived using a market participant approach with an adjusted risk premium for the underlying investment. Higher probabilities were generally assigned to those scenarios where court approvals were received and the project moves forward reflecting interim rates at prices subject to the reopeners. A low probability was assigned to the scenario where the project does not proceed.

Judgments and assumptions are inherent in our estimates of future cash flows, discount rates, growth assumptions, and the likelihood of various scenarios. It is reasonably possible that future unfavorable developments, such as a reduced likelihood of success with court approvals, increased estimates of construction costs, material increases in the discount rate, important feedback on customer price increases or further significant delays, could result in a future impairment.

For further information on ACP, see Notes 4 and 13 to the Consolidated Financial Statements, "Regulatory Matters" and "Investments in Unconsolidated Affiliates".

Pension and Other Post-Retirement Benefits

The calculation of pension expense, other post-retirement benefit expense and net pension and other post-retirement assets or liabilities require the use of assumptions and election of permissible accounting alternatives. Changes

in assumptions can result in different expense and reported asset or liability amounts and future actual experience can differ from the assumptions. Duke Energy believes the most critical assumptions for pension and other post-retirement benefits are:

- the expected long-term rate of return on plan assets;
- the assumed discount rate applied to future projected benefit payments; and
- the health care cost trend rate.

Duke Energy elects to amortize net actuarial gain or loss amounts that are in excess of 10% of the greater of the market-related value of plan assets or the plan's projected benefit obligation, into net pension or other post-retirement benefit expense over the average remaining service period of active participants expected to benefit under the plan. If all or almost all of a plan's participants are inactive, the average remaining life expectancy of the inactive participants is used instead of average remaining service period. Prior service cost or credit, which represents an increase or decrease in a plan's pension benefit obligation resulting from plan amendment, is amortized on a straight-line basis over the average expected remaining service period of active participants expected to benefit under the plan. If all or almost all of a plan's participants are inactive, the average remaining life expectancy of the inactive participants is used instead of average remaining service period.

As of December 31, 2019, Duke Energy assumes pension and other post-retirement plan assets will generate a long-term rate of return of 6.85%. The expected long-term rate of return was developed using a weighted average calculation of expected returns based primarily on future expected returns across asset classes considering the use of active asset managers, where applicable. The asset allocation targets were set after considering the investment objective and the risk profile. Equity securities are held for their higher expected returns. Debt securities are primarily held to hedge the qualified pension liability. Real assets, return-seeking fixed income, hedge funds and other global securities are held for diversification. Investments within asset classes are diversified to achieve broad market participation and reduce the impact of individual managers on investments.

Duke Energy discounted its future U.S. pension and other post-retirement obligations using a rate of 3.3% as of December 31, 2019. Discount rates used to measure benefit plan obligations for financial reporting purposes reflect rates at which pension benefits could be effectively settled. As of December 31, 2019, Duke Energy determined its discount rate for U.S. pension and other post-retirement obligations using a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

Future changes in plan asset returns, assumed discount rates and various other factors related to the participants in Duke Energy's pension and post-retirement plans will impact future pension expense and liabilities. Duke Energy cannot predict with certainty what these factors will be in the future. The following table presents the approximate effect on Duke Energy's 2019 pretax pension expense, pretax other post-retirement expense, pension obligation and other post-retirement benefit obligation if a 0.25% change in rates were to occur.

PART II

(in millions)	Qualified and Non-Qualified Pension Plans		Other Post-Retirement Plans	
	0.25%	(0.25)%	0.25%	(0.25)%
Effect on 2019 pretax pension and other post-retirement expense				
Expected long-term rate of return	\$ (21)	\$ 21	\$ (1)	\$ 1
Discount rate	(9)	9	—	(1)
Effect on pension and other post-retirement benefit obligation at December 31, 2019				
Discount rate	(197)	201	(14)	14

Duke Energy's other post-retirement plan uses a health care cost trend rate covering both pre- and post-age 65 retired plan participants, which is comprised of a medical care cost trend rate, which reflects the near- and long-term expectation of increases in medical costs, and a prescription drug cost trend rate, which reflects the near- and long-term expectation of increases in prescription drug costs. As of December 31, 2019, the health care cost trend rate was 6.0%, trending down to 4.75% by 2026. These plans are closed to new employees.

For further information, see Note 23 to the Consolidated Financial Statements, "Employee Benefit Plans."

LIQUIDITY AND CAPITAL RESOURCES

Sources and Uses of Cash

Duke Energy relies primarily upon cash flows from operations, debt and equity issuances and its existing cash and cash equivalents to fund its liquidity and capital requirements. Duke Energy's capital requirements arise primarily from capital and investment expenditures, repaying long-term debt and paying dividends to shareholders.

Among other provisions, the Tax Act lowered the corporate federal income tax rate from 35% to 21% and eliminated bonus depreciation for regulated utilities. For Duke Energy's regulated operations, the reduction in federal income taxes will result in lower regulated customer rates. However, due to its existing NOL position and other tax credits, Duke Energy does not expect to be a significant federal cash tax payer through at least 2027. As a result, any reduction in customer rates could cause a material reduction in consolidated cash flows from operations in the short term. Over time, the reduction in deferred tax liabilities resulting from the Tax Act will increase Duke Energy's regulated rate base investments and customer rates. Impacts of Tax Act to Duke Energy's cash flows and credit metrics are subject to the regulatory actions of its state commissions, of which a substantial amount remain uncertain through ongoing rate case activity, and the FERC. See Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

The Subsidiary Registrants generally maintain minimal cash balances and use short-term borrowings to meet their working capital needs and other cash requirements. The Subsidiary Registrants, excluding Progress Energy, support their short-term borrowing needs through participation with Duke Energy and certain of its other subsidiaries in a money pool arrangement. The companies with short-term funds may provide short-term loans to affiliates participating under this arrangement. See Note 7 to the Consolidated Financial Statements, "Debt and Credit Facilities," for additional discussion of the money pool arrangement.

Duke Energy and the Subsidiary Registrants, excluding Progress Energy, may also use short-term debt, including commercial paper and the money pool, as a bridge to long-term debt financings. The levels of borrowing may vary significantly over the course of the year due to the timing of long-term debt financings and the impact of fluctuations in cash flows from operations. From time to time, Duke Energy's current liabilities exceed current assets resulting from the use of short-term debt as a funding source to meet scheduled maturities of long-term debt, as well as cash needs, which can fluctuate due to the seasonality of its businesses.

Equity Issuance

In order to strengthen its balance sheet and credit metrics and bolster cash flows, in November 2019, Duke Energy entered into forward sales agreements for \$2.5 billion of common stock equity expected to be settled in late

2020. Duke Energy plans to issue \$500 million of common stock equity per year through at least 2022 through the DRIP and ATM programs. Additionally, Duke Energy will utilize other instruments as needed. See Note 20 to the Consolidated Financial Statements, "Stockholders' Equity," for further information regarding Duke Energy's equity issuances in 2019.

Credit Facilities and Registration Statements

See Note 7 to the Consolidated Financial Statements, "Debt and Credit Facilities," for further information regarding credit facilities and shelf registration statements available to Duke Energy and the Duke Energy Registrants.

CAPITAL EXPENDITURES

Duke Energy continues to focus on reducing risk and positioning its business for future success and will invest principally in its strongest business sectors. Duke Energy's projected capital and investment expenditures, including AFUDC debt and capitalized interest, for the next three fiscal years are included in the table below.

(in millions)	2020	2021	2022
New generation	\$ 115	\$ 230	\$ 475
Regulated renewables	515	450	410
Environmental	975	725	750
Nuclear fuel	465	410	415
Major nuclear	405	285	175
Customer additions	630	630	620
Grid modernization and other transmission and distribution projects	3,345	3,845	4,380
Maintenance and other	2,275	1,925	2,050
Total Electric Utilities and Infrastructure	8,725	8,500	9,275
Gas Utilities and Infrastructure	2,275	1,950	1,150
Commercial Renewables and Other	825	875	725
Total projected capital and investment expenditures	\$ 11,825	\$ 11,325	\$ 11,150

DEBT MATURITIES

See Note 7 to the Consolidated Financial Statements, "Debt and Credit Facilities," for further information regarding significant components of Current Maturities of Long-Term Debt on the Consolidated Balance Sheets.

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PART II

DIVIDEND PAYMENTS

In 2019, Duke Energy paid quarterly cash dividends for the 93rd consecutive year and expects to continue its policy of paying regular cash dividends in the future. There is no assurance as to the amount of future dividends because they depend on future earnings, capital requirements, financial condition and are subject to the discretion of the Board of Directors.

Duke Energy targets a dividend payout ratio of between 65% and 75%, based upon adjusted diluted EPS, and expects this trend to continue through 2024. In 2019 and 2018, Duke Energy increased the dividend by approximately 2% and 4%, respectively, and the company remains committed to continued growth of the dividend.

Dividend and Other Funding Restrictions of Duke Energy Subsidiaries

As discussed in Note 4 to the Consolidated Financial Statements, "Regulatory Matters," Duke Energy's wholly owned public utility operating companies have restrictions on the amount of funds that can be transferred to Duke Energy through dividends, advances or loans as a result of conditions imposed by various regulators in conjunction with merger transactions. Duke Energy Progress and Duke Energy Florida also have restrictions imposed by their first mortgage bond indentures and Articles of Incorporation, which in certain circumstances, limit their ability to make cash dividends or distributions on common stock. Additionally, certain other Duke Energy subsidiaries have other restrictions, such as minimum working capital and tangible net worth requirements pursuant to debt and other agreements that limit the amount of funds that can be transferred to Duke Energy. At December 31, 2019, the amount of restricted net assets of wholly owned subsidiaries of Duke Energy that may not be distributed to Duke Energy in the form of a loan or dividend does not exceed a material amount of Duke Energy's net assets. Duke Energy does not have any legal or other restrictions on paying common stock dividends to shareholders out of its consolidated equity accounts. Although these restrictions cap the amount of funding the various operating subsidiaries can provide to Duke Energy, management does not believe these restrictions will have a significant impact on Duke Energy's ability to access cash to meet its payment of dividends on common stock and other future funding obligations.

CASH FLOWS FROM OPERATING ACTIVITIES

Cash flows from operations of Electric Utilities and Infrastructure and Gas Utilities and Infrastructure are primarily driven by sales of electricity and natural gas, respectively, and costs of operations. These cash flows from operations are relatively stable and comprise a substantial portion of Duke Energy's operating cash flows. Weather conditions, working capital and commodity price fluctuations and unanticipated expenses including unplanned plant outages, storms, legal costs and related settlements can affect the timing and level of cash flows from operations.

Duke Energy believes it has sufficient liquidity resources through the commercial paper markets, and ultimately, the Master Credit Facility, to support these operations. Cash flows from operations are subject to a number of other factors, including, but not limited to, regulatory constraints, economic trends and market volatility (see Item 1A, "Risk Factors," for additional information).

At December 31, 2019, Duke Energy had cash and cash equivalents and short-term investments of \$311 million.

DEBT ISSUANCES

Depending on availability based on the issuing entity, the credit rating of the issuing entity, and market conditions, the Subsidiary Registrants prefer to issue first mortgage bonds and secured debt, followed by unsecured debt. This preference is the result of generally higher credit ratings for first mortgage bonds and secured debt, which typically result in lower interest costs. Duke Energy Corporation primarily issues unsecured debt.

In 2020, Duke Energy anticipates issuing additional debt of \$5.2 billion, primarily for the purpose of funding capital expenditures and debt maturities.

See to Note 7 to the Consolidated Financial Statements, "Debt and Credit Facilities," for further information regarding significant debt issuances in 2019.

Duke Energy's capitalization is balanced between debt and equity as shown in the table below.

	Projected 2020	Actual 2019	Actual 2018
Equity	45%	44%	43%
Debt	55%	56%	57%

Restrictive Debt Covenants

Duke Energy's debt and credit agreements contain various financial and other covenants. Duke Energy's Master Credit Facility contains a covenant requiring the debt-to-total capitalization ratio to not exceed 65% for each borrower, excluding Piedmont, and 70% for Piedmont. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements or sublimits thereto. As of December 31, 2019, each of the Duke Energy Registrants was in compliance with all covenants related to their debt agreements. In addition, some credit agreements may allow for acceleration of payments or termination of the agreements due to nonpayment, or acceleration of other significant indebtedness of the borrower or some of its subsidiaries. None of the debt or credit agreements contain material adverse change clauses.

Credit Ratings

Moody's Investors Service, Inc. and S&P provide credit ratings for various Duke Energy Registrants. In January 2020, Fitch Ratings, Inc. publicly announced plans to withdraw the ratings on Duke Energy Corporation on or about February 20, 2020. The following table includes Duke Energy and certain subsidiaries' credit ratings and ratings outlook as of February 2020.

	Moody's	S&P
Duke Energy Corporation	Stable	Stable
Issuer Credit Rating	Baa1	A-
Senior Unsecured Debt	Baa1	BBB+
Commercial Paper	P-2	A-2
Duke Energy Carolinas	Stable	Stable
Senior Secured Debt	Aa2	A
Senior Unsecured Debt	A1	A-
Progress Energy	Stable	Stable
Senior Unsecured Debt	Baa1	BBB+
Duke Energy Progress	Stable	Stable
Senior Secured Debt	Aa3	A
Duke Energy Florida	Stable	Stable
Senior Secured Debt	A1	A
Senior Unsecured Debt	A3	A-
Duke Energy Ohio	Stable	Stable
Senior Secured Debt	A2	A
Senior Unsecured Debt	Baa1	A-
Duke Energy Indiana	Stable	Stable
Senior Secured Debt	Aa3	A
Senior Unsecured Debt	A2	A-
Duke Energy Kentucky	Stable	Stable
Senior Unsecured Debt	Baa1	A-
Piedmont Natural Gas	Stable	Stable
Senior Unsecured	A3	A-

Credit ratings are intended to provide credit lenders a framework for comparing the credit quality of securities and are not a recommendation to buy, sell or hold. The Duke Energy Registrants' credit ratings are dependent on the rating agencies' assessments of their ability to meet their debt principal and interest obligations when they come due. If, as a result of market conditions or other factors, the Duke Energy Registrants are unable to maintain current balance sheet strength, or if earnings and cash flow outlook materially deteriorates, credit ratings could be negatively impacted.

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PART II

Cash Flow Information

The following table summarizes Duke Energy's cash flows for the two most recently completed fiscal years.

(in millions)	Years Ended December 31,	
	2019	2018
Cash flows provided by (used in):		
Operating activities	\$ 8,209	\$ 7,186
Investing activities	(11,957)	(10,060)
Financing activities	3,730	2,960
Net (decrease) increase in cash, cash equivalents and restricted cash	(18)	86
Cash, cash equivalents and restricted cash at beginning of period	591	505
Cash, cash equivalents and restricted cash at end of period	\$ 573	\$ 591

OPERATING CASH FLOWS

The following table summarizes key components of Duke Energy's operating cash flows for the two most recently completed fiscal years.

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Net income	\$ 3,571	\$ 2,644	\$ 927
Non-cash adjustments to net income	5,761	6,447	(686)
Contributions to qualified pension plans	(77)	(141)	64
Payments for AROs	(746)	(533)	(213)
Payment for disposal of other assets	—	(105)	105
Refund of AMT credit carryforwards	573	—	573
Working capital	(873)	(1,126)	253
Net cash provided by operating activities	\$ 8,209	\$ 7,186	\$ 1,023

The variance was driven primarily by:

- a \$241 million increase in net income after adjustment for non-cash items primarily due to increases in revenues as a result of rate increases in the current year, partially offset by decreases in current year non-cash adjustments;
- a \$573 million refund of AMT credit carryforwards;
- a \$253 million decrease in cash outflows from working capital primarily due to fluctuations in accounts receivable balances, including a prior

year increase for AMT refunds, and prior year increases in regulatory assets related to fuel costs, partially offset by fluctuations in inventory levels and current year decreases in property tax and severance accruals; and

- a \$105 million payment in the prior year for disposal of Beckjord.

Partially offset by:

- a \$213 million increase in payments for AROs.

INVESTING CASH FLOWS

The following table summarizes key components of Duke Energy's investing cash flows for the two most recently completed fiscal years.

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Capital, investment and acquisition expenditures, net of return of investment capital	\$ (11,435)	\$ (9,668)	\$ (1,767)
Debt and equity securities, net	(5)	(15)	10
Other investing items	(517)	(377)	(140)
Net cash used in investing activities	\$ (11,957)	\$ (10,060)	\$ (1,897)

The primary use of cash related to investing activities is capital, investment and acquisition expenditures, net of return of investment capital detailed by reportable business segment in the following table. The increase includes expenditures related to line improvements in the Electric Utilities and Infrastructure segment and pipeline construction and improvement in the Gas Utilities and Infrastructure segment, as well as increased investment in the Commercial Renewables segment.

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Electric Utilities and Infrastructure	\$ 8,258	\$ 8,086	\$ 172
Gas Utilities and Infrastructure	1,533	1,133	400
Commercial Renewables	1,423	193	1,230
Other	221	256	(35)
Total capital, investment and acquisition expenditures, net of return of investment capital	\$ 11,435	\$ 9,668	\$ 1,767

PART II

FINANCING CASH FLOWS

The following table summarizes key components of Duke Energy's financing cash flows for the two most recently completed fiscal years.

(in millions)	Years Ended December 31,		
	2019	2018	Variance
Issuance of common stock	\$ 384	\$ 1,838	\$ (1,454)
Issuance of preferred stock	1,962	—	1,962
Issuances of long-term debt, net	3,615	2,393	1,222
Notes payable and commercial paper	(380)	1,171	(1,551)
Dividends paid	(2,668)	(2,471)	(197)
Contributions from noncontrolling interests	843	41	802
Other financing items	(26)	(12)	(14)
Net cash provided by financing activities	\$ 3,730	\$ 2,960	\$ 770

The variance was driven primarily by:

- a \$1,962 million increase in proceeds from the issuance of preferred stock;
- a \$1,222 million net increase in proceeds from issuances of long-term debt primarily due to timing of issuances and redemptions of long-term debt; and
- an \$802 million increase in contributions from noncontrolling interests, including \$415 million related to the sale of a noncontrolling interest in the Commercial Renewables segment.

Partially offset by:

- a \$1,454 million decrease in proceeds from the issuance of common stock; and
- a \$1,551 million decrease in net borrowings from notes payable and commercial paper primarily due to the use of proceeds from the preferred stock issuance and increased long-term debt issuances used to pay down outstanding commercial paper.

Off-Balance Sheet Arrangements

Duke Energy and certain of its subsidiaries enter into guarantee arrangements in the normal course of business to facilitate commercial transactions with third parties. These arrangements include performance guarantees, standby letters of credit, debt guarantees, surety bonds and indemnifications.

Most of the guarantee arrangements entered into by Duke Energy enhance the credit standing of certain subsidiaries, non-consolidated entities or less than wholly owned entities, enabling them to conduct business. As such, these guarantee arrangements involve elements of performance and credit risk, which are not always included on the Consolidated Balance Sheets. The possibility of Duke Energy, either on its own or on behalf of Spectra Capital through indemnification agreements entered into as part of the January 2, 2007, spin-off of Spectra Energy Corp, having to honor its contingencies is largely dependent upon the future operations of the subsidiaries, investees and other third parties, or the occurrence of certain future events.

Duke Energy performs ongoing assessments of its respective guarantee obligations to determine whether any liabilities have been incurred as a result of potential increased non-performance risk by third parties for which Duke Energy

has issued guarantees. See Note 8 to the Consolidated Financial Statements, "Guarantees and Indemnifications," for further details of the guarantee arrangements. Issuance of these guarantee arrangements is not required for the majority of Duke Energy's operations. Thus, if Duke Energy discontinued issuing these guarantees, there would not be a material impact to the consolidated results of operations, cash flows or financial position.

In November 2019, Duke Energy executed equity forward sales agreements. Settlement of the forward sales agreements are expected to occur on or prior to December 31, 2020. See Note 20 to the Consolidated Financial Statements, "Stockholders' Equity" for further details on the equity forward sales agreements.

Other than the guarantee arrangements discussed above, the equity forward sales agreements and off-balance sheet debt related to non-consolidated VIEs, Duke Energy does not have any material off-balance sheet financing entities or structures. For additional information, see Note 18 to the Consolidated Financial Statements, "Variable Interest Entities".

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PART II

Contractual Obligations

Duke Energy enters into contracts that require payment of cash at certain specified periods, based on certain specified minimum quantities and prices. The following table summarizes Duke Energy's contractual cash obligations as of December 31, 2019.

(in millions)	Payments Due By Period				
	Total	Less than 1 year (2020)	2-3 years (2021 & 2022)	4-5 years (2023 & 2024)	More than 5 years (2025 & beyond)
Long-term debt ^(a)	\$ 56,174	\$ 3,021	\$ 9,135	\$ 4,870	\$ 39,148
Interest payments on long-term debt ^(b)	33,988	2,163	3,986	3,516	24,323
Finance leases ^(c)	1,659	181	359	296	823
Operating leases ^(c)	2,036	268	417	367	984
Purchase obligations: ^(d)					
Fuel and purchased power ^{(e)(f)}	26,250	4,124	5,390	3,798	12,938
Other purchase obligations ^(g)	5,456	4,836	322	76	222
Nuclear decommissioning trust annual funding ^(h)	606	24	62	62	458
Land easements ⁽ⁱ⁾	217	9	18	20	170
Total contractual cash obligations ^{(j)(k)}	\$ 126,386	\$ 14,626	\$ 19,689	\$ 13,005	\$ 79,066

(a) See Note 7 to the Consolidated Financial Statements, "Debt and Credit Facilities."

(b) Interest payments on variable rate debt instruments were calculated using December 31, 2019, interest rates and holding them constant for the life of the instruments.

(c) See Note 6 to the Consolidated Financial Statements, "Leases." Amounts in the table above include the interest component of finance leases based on the interest rates stated in the lease agreements and exclude certain related executory costs. Amounts exclude contingent lease obligations.

(d) Current liabilities, except for current maturities of long-term debt, and purchase obligations reflected on the Consolidated Balance Sheets have been excluded from the above table.

(e) Includes firm capacity payments that provide Duke Energy with uninterrupted firm access to electricity transmission capacity and natural gas transportation contracts, as well as undesignated contracts and contracts that qualify as NPNS. For contracts where the price paid is based on an index, the amount is based on market prices at December 31, 2019, or the best projections of the index. For certain of these amounts, Duke Energy may settle on a net cash basis since Duke Energy has entered into payment netting arrangements with counterparties that permit Duke Energy to offset receivables and payables with such counterparties.

(f) Amounts exclude obligations under the OVEC PPA. See Note 18 to the Consolidated Financial Statements, "Variable Interest Entities," for additional information.

(g) Includes contracts for software, telephone, data and consulting or advisory services. Amount also includes contractual obligations for EPC costs for new generation plants, wind and solar facilities, plant refurbishments, maintenance and day-to-day contract work and commitments to buy certain products. Amount excludes certain open purchase orders for services that are provided on demand for which the timing of the purchase cannot be determined.

(h) Related to future annual funding obligations to NDTF through nuclear power stations' relicensing dates. See Note 10 to the Consolidated Financial Statements, "Asset Retirement Obligations."

(i) Related to Commercial Renewables wind facilities.

(j) Unrecognized tax benefits of \$126 million are not reflected in this table as Duke Energy cannot predict when open income tax years will close with completed examinations. See Note 24 to the Consolidated Financial Statements, "Income Taxes."

(k) The table above excludes reserves for litigation, environmental remediation, asbestos-related injuries and damages claims and self-insurance claims (see Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies") because Duke Energy is uncertain as to the timing and amount of cash payments that will be required. Additionally, the table above excludes annual insurance premiums that are necessary to operate the business, including nuclear insurance (see Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies"), funding of pension and other post-retirement benefit plans (see Note 23 to the Consolidated Financial Statements, "Employee Benefit Plans"), AROs, including ash management expenditures (see Note 10 to the Consolidated Financial Statements, "Asset Retirement Obligations") and regulatory liabilities (see Note 4 to the Consolidated Financial Statements, "Regulatory Matters") because the amount and timing of the cash payments are uncertain. Also excluded are Deferred Income Taxes and ITCs recorded on the Consolidated Balance Sheets since cash payments for income taxes are determined based primarily on taxable income for each discrete fiscal year.

QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Risk Management Policies

The Enterprise Risk Management policy framework at Duke Energy includes strategy, operational, project execution and financial or transaction related risks. Enterprise Risk Management includes market risk as part of the financial and transaction related risks in its framework.

Duke Energy is exposed to market risks associated with commodity prices, interest rates and equity prices. Duke Energy has established comprehensive risk management policies to monitor and manage these market risks. Duke Energy's Chief Executive Officer and Chief Financial Officer are responsible for the overall approval of market risk management policies and the delegation of approval and authorization levels. The Finance and Risk Management Committee of the Board of Directors receives periodic updates from the Chief Risk Officer and other members of management on market risk positions, corporate exposures and overall risk management activities. The Chief Risk Officer is responsible for the overall governance of managing commodity price risk, including monitoring exposure limits.

The following disclosures about market risk contain forward-looking statements that involve estimates, projections, goals, forecasts, assumptions, risks and uncertainties that could cause actual results or outcomes to differ

materially from those expressed in the forward-looking statements. See Item 1A, "Risk Factors," and "Cautionary Statement Regarding Forward-Looking Information" for a discussion of the factors that may impact any such forward-looking statements made herein.

Commodity Price Risk

Duke Energy is exposed to the impact of market fluctuations in the prices of electricity, coal, natural gas and other energy-related products marketed and purchased as a result of its ownership of energy-related assets. Duke Energy's exposure to these fluctuations is primarily limited by the cost-based regulation of its regulated operations as these operations are typically allowed to recover substantially all of these costs through various cost-recovery clauses, including fuel clauses, formula-based contracts, or other cost-sharing mechanisms. While there may be a delay in timing between when these costs are incurred and when they are recovered through rates, changes from year to year generally do not have a material impact on operating results of these regulated operations. Within Duke Energy's Commercial Renewables segment, the company has limited exposure to market price fluctuations in prices of energy-related products as a result of its ownership of renewable assets.

Price risk represents the potential risk of loss from adverse changes in the market price of electricity or other energy commodities. Duke Energy's exposure to commodity price risk is influenced by a number of factors, including contract

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Step 13 2021

PART II

size, length, market liquidity, location and unique or specific contract terms. Duke Energy employs established policies and procedures to manage risks associated with these market fluctuations, which may include using various commodity derivatives, such as swaps, futures, forwards and options. For additional information, see Note 15 to the Consolidated Financial Statements, "Derivatives and Hedging."

Hedging Strategies

Duke Energy closely monitors risks associated with commodity price changes on its future operations and, where appropriate, uses various commodity instruments such as electricity, coal and natural gas forward contracts and options to mitigate the effect of such fluctuations on operations. Duke Energy's primary use of energy commodity derivatives is to hedge against exposure to the prices of power, fuel for generation and natural gas for customers. Additionally, Duke Energy's Commercial Renewables business may enter into short-term or long-term hedge agreements to manage price risk associated with project output.

The majority of instruments used to manage Duke Energy's commodity price exposure are either not designated as hedges or do not qualify for hedge accounting. These instruments are referred to as undesignated contracts. Mark-to-market changes for undesignated contracts entered into by regulated businesses are reflected as regulatory assets or liabilities on the Consolidated Balance Sheets. Undesignated contracts entered into by unregulated businesses are marked-to-market each period, with changes in the fair value of the derivative instruments reflected in earnings.

Duke Energy may also enter into other contracts that qualify for the NPNS exception. When a contract meets the criteria to qualify as NPNS, Duke Energy applies such exception. Income recognition and realization related to NPNS contracts generally coincide with the physical delivery of the commodity. For contracts qualifying for the NPNS exception, no recognition of the contract's fair value in the Consolidated Financial Statements is required until settlement of the contract as long as the transaction remains probable of occurring.

Generation Portfolio Risks

The Duke Energy Registrants optimize the value of their generation portfolios, which include generation assets, fuel and emission allowances. Modeled forecasts of future generation output and fuel requirements are based on forward power and fuel markets. The component pieces of the portfolio are bought and sold based on models and forecasts of generation in order to manage the economic value of the portfolio in accordance with the strategies of the business units.

For the Electric Utilities and Infrastructure segment, the generation portfolio not utilized to serve retail operations or committed load is subject to commodity price fluctuations. However, the impact on the Consolidated Statements of Operations is partially offset by mechanisms in these regulated jurisdictions that result in the sharing of net profits from these activities with retail customers.

Interest Rate Risk

Duke Energy is exposed to risk resulting from changes in interest rates as a result of its issuance or anticipated issuance of variable and fixed-rate debt and commercial paper. Duke Energy manages interest rate exposure by limiting variable-rate exposures to a percentage of total debt and by monitoring the effects of market changes in interest rates. Duke Energy also enters into financial derivative instruments, which may include instruments such as, but not limited to, interest rate swaps, swaptions and U.S. Treasury lock agreements to manage and mitigate interest rate risk exposure. See Notes 1, 7, 15 and 17 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies," "Debt and Credit Facilities," "Derivatives and Hedging," and "Fair Value Measurements."

Duke Energy had \$8.6 billion of unhedged long- and short-term floating interest rate exposure at December 31, 2019. The impact of a 100-basis point change in interest rates on pretax income is approximately \$86 million at December 31, 2019. This amount was estimated by considering the impact of the hypothetical interest rates on variable-rate securities outstanding, adjusted for interest rate hedges as of December 31, 2019.

Certain Duke Energy Registrants have variable-rate debt and manage interest rate risk by entering into financial contracts including interest rate swaps. See Notes 7 and 15 to the Consolidated Financial Statements, "Debt and Credit Facilities" and "Derivatives and Hedging." Such financial arrangements generally are indexed based upon LIBOR, which is expected to be phased out by the end of 2021. The Secured Overnight Financing Rate (SOFR) has been identified by regulators and industry participants as the preferred successor rate for U.S. dollar-based LIBOR at that time. Impacted financial arrangements extending beyond 2021 may require contractual amendment or termination and renegotiation to fully adapt to a post-LIBOR environment, and there may be uncertainty regarding the effectiveness of any such alternative index methodologies. Alternative index provisions are being assessed and incorporated into new financial arrangements that extend beyond 2021. Additionally, the progress of the phaseout is being monitored, including proposed transition relief from the FASB.

Credit Risk

Credit risk represents the loss that the Duke Energy Registrants would incur if a counterparty fails to perform under its contractual obligations. Where exposed to credit risk, the Duke Energy Registrants analyze the counterparty's financial condition prior to entering into an agreement and monitor exposure on an ongoing basis. The Duke Energy Registrants establish credit limits where appropriate in the context of contractual arrangements and monitor such limits.

To reduce credit exposure, the Duke Energy Registrants seek to include netting provisions with counterparties, which permit the offset of receivables and payables with such counterparties. The Duke Energy Registrants also frequently use master agreements with credit support annexes to further mitigate certain credit exposures. The master agreements provide for a counterparty to post cash or letters of credit to the exposed party for exposure in excess of an established threshold. The threshold amount represents a negotiated unsecured credit limit for each party to the agreement, determined in accordance with the Duke Energy Registrants' internal corporate credit practices and standards. Collateral agreements generally also provide that the failure to post collateral when required is sufficient cause to terminate transactions and liquidate all positions.

The Duke Energy Registrants also obtain cash, letters of credit, or surety bonds from certain counterparties to provide credit support outside of collateral agreements, where appropriate, based on a financial analysis of the counterparty and the regulatory or contractual terms and conditions applicable to each transaction. See Note 15 to the Consolidated Financial Statements, "Derivatives and Hedging," for additional information regarding credit risk related to derivative instruments.

The Duke Energy Registrants' principal counterparties for its electric and natural gas businesses are RTOs, distribution companies, municipalities, electric cooperatives and utilities located throughout the U.S. Exposure to these entities consists primarily of amounts due to Duke Energy Registrants for delivered electricity. Additionally, there may be potential risks associated with remarketing of energy and capacity in the event of default by wholesale power customers. The Duke Energy Registrants have concentrations of receivables from certain of such entities that may affect the Duke Energy Registrants' credit risk.

The Duke Energy Registrants are also subject to credit risk from transactions with their suppliers that involve prepayments or milestone payments in conjunction with outsourcing arrangements, major construction projects and certain commodity purchases. The Duke Energy Registrants' credit exposure to such suppliers may take the form of increased costs or project delays in the event of non-performance. The Duke Energy Registrants frequently require guarantees or letters of credit from suppliers to mitigate this credit risk.

PART II

Credit risk associated with the Duke Energy Registrants' service to residential, commercial and industrial customers is generally limited to outstanding accounts receivable. The Duke Energy Registrants mitigate this credit risk by requiring tariff customers to provide a cash deposit, letter of credit or surety bond until a satisfactory payment history is established, subject to the rules and regulations in effect in each retail jurisdiction at which time the deposit is typically refunded. Charge-offs for retail customers have historically been insignificant to the operations of the Duke Energy Registrants and are typically recovered through retail rates. Management continually monitors customer charge-offs and payment patterns to ensure the adequacy of bad debt reserves. Duke Energy Ohio and Duke Energy Indiana sell certain of their accounts receivable and related collections through CRC, a Duke Energy consolidated VIE. Losses on collection are first absorbed by the equity of CRC and next by the subordinated retained interests held by Duke Energy Ohio, Duke Energy Kentucky and Duke Energy Indiana. See Note 18 to the Consolidated Financial Statements, "Variable Interest Entities." Duke Energy also provides certain non-tariff services, primarily to large commercial and industrial customers in which incurred costs are intended to be recovered from the individual customer and therefore are not subject to rate recovery in the event of customer default. Customer credit worthiness is assessed prior to entering into these transactions.

Duke Energy's Commercial Renewables segment enters into long-term agreements with certain creditworthy buyers that may not include the right to call for collateral in the event of a credit rating downgrade. Credit concentration exists to certain counterparties on these agreements, including entities that could be subject to wildfire liability. Additionally, Commercial Renewables may invest in projects for which buyers are below investment grade, although such buyers are required to post negotiated amounts of credit support. Also, power sales agreements and/or hedges of project output are generally for an initial term that does not cover the entire life of the asset. As a result, Commercial Renewables is exposed to market price risk and credit risk related to these agreements.

Duke Energy Carolinas has third-party insurance to cover certain losses related to asbestos-related injuries and damages above an aggregate self-insured retention. See Note 5 to the Consolidated Financial Statements, "Commitments and Contingencies" for information on asbestos-related injuries and damages claims.

The Duke Energy Registrants also have credit risk exposure through issuance of performance and financial guarantees, letters of credit and surety bonds on behalf of less than wholly owned entities and third parties. Where the Duke Energy Registrants have issued these guarantees, it is possible that they could be required to perform under these guarantee obligations in the event the obligor under the guarantee fails to perform. Where the Duke Energy Registrants have issued guarantees related to assets or operations that have been disposed of via sale, they attempt to secure indemnification from the buyer against all future performance obligations under the guarantees. See Note 8 to the Consolidated Financial Statements, "Guarantees and Indemnifications," for further information on guarantees issued by the Duke Energy Registrants.

Based on the Duke Energy Registrants' policies for managing credit risk, their exposures and their credit and other reserves, the Duke Energy Registrants do not currently anticipate a materially adverse effect on their consolidated financial position or results of operations as a result of non-performance by any counterparty.

OTHER MATTERS

Environmental Regulations

The Duke Energy Registrants are subject to federal, state and local regulations regarding air and water quality, hazardous and solid waste disposal, coal ash and other environmental matters. These regulations can be changed from time to time and result in new obligations of the Duke Energy Registrants.

Marketable Securities Price Risk

As described further in Note 16 to the Consolidated Financial Statements, "Investments in Debt and Equity Securities," Duke Energy invests in debt and equity securities as part of various investment portfolios to fund certain obligations. The vast majority of investments in equity securities are within the NDTF and assets of the various pension and other post-retirement benefit plans.

Pension Plan Assets

Duke Energy maintains investments to facilitate funding the costs of providing non-contributory defined benefit retirement and other post-retirement benefit plans. These investments are exposed to price fluctuations in equity markets and changes in interest rates. The equity securities held in these pension plans are diversified to achieve broad market participation and reduce the impact of any single investment, sector or geographic region. Duke Energy has established asset allocation targets for its pension plan holdings, which take into consideration the investment objectives and the risk profile with respect to the trust in which the assets are held. See Note 23 to the Consolidated Financial Statements, "Employee Benefit Plans," for additional information regarding investment strategy of pension plan assets.

A significant decline in the value of plan asset holdings could require Duke Energy to increase funding of its pension plans in future periods, which could adversely affect cash flows in those periods. Additionally, a decline in the fair value of plan assets, absent additional cash contributions to the plan, could increase the amount of pension cost required to be recorded in future periods, which could adversely affect Duke Energy's results of operations in those periods.

Nuclear Decommissioning Trust Funds

As required by the NRC, NCUC, PSCSC and FPSC, subsidiaries of Duke Energy maintain trust funds to fund the costs of nuclear decommissioning. As of December 31, 2019, these funds were invested primarily in domestic and international equity securities, debt securities, cash and cash equivalents and short-term investments. Per the NRC, Internal Revenue Code, NCUC, PSCSC and FPSC requirements, these funds may be used only for activities related to nuclear decommissioning. These investments are exposed to price fluctuations in equity markets and changes in interest rates. Duke Energy actively monitors its portfolios by benchmarking the performance of its investments against certain indices and by maintaining, and periodically reviewing, target allocation percentages for various asset classes.

Accounting for nuclear decommissioning recognizes that costs are recovered through retail and wholesale rates; therefore, fluctuations in investment prices do not materially affect the Consolidated Statements of Operations, as changes in the fair value of these investments are primarily deferred as regulatory assets or regulatory liabilities pursuant to Orders by the NCUC, PSCSC, FPSC and FERC. Earnings or losses of the fund will ultimately impact the amount of costs recovered through retail and wholesale rates. See Note 10 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information regarding nuclear decommissioning costs. See Note 16 to the Consolidated Financial Statements, "Investments in Debt and Equity Securities," for additional information regarding NDTF assets.

The following sections outline various proposed and recently enacted legislation and regulations that may impact the Duke Energy Registrants. Refer to Note 4 to the Consolidated Financial Statements, "Regulatory Matters," for further information regarding potential plant retirements and regulatory filings related to the Duke Energy Registrants.

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Step 13 2021

PART II

Coal Combustion Residuals

In April 2015, EPA published a rule to regulate the disposal of CCR from electric utilities as solid waste. The federal regulation classifies CCR as nonhazardous waste and allows for beneficial use of CCR with some restrictions. The regulation applies to all new and existing landfills, new and existing surface impoundments receiving CCR and existing surface impoundments located at stations generating electricity (regardless of fuel source), which were no longer receiving CCR but contained liquids as of the effective date of the rule. The rule establishes requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring, protection and remedial procedures and other operational and reporting procedures to ensure the safe disposal and management of CCR. Various industry and environmental parties appealed EPA's CCR rule in the D.C. Circuit Court. On April 18, 2016, EPA filed a motion with the federal court to settle five issues raised in litigation. On June 14, 2016, the court approved the motion with respect to all of those issues. Duke Energy does not expect a material impact from the settlement or that it will result in additional ARO adjustments. On September 13, 2017, EPA responded to a petition by the Utility Solid Waste Activities Group that the agency would reconsider certain provisions of the final rule, and asked the D.C. Circuit Court to suspend the litigation. The D.C. Circuit Court denied EPA's petition to suspend the litigation and oral argument was held on November 20, 2017. On August 21, 2018, the D.C. Circuit issued its decision in the CCR rule litigation denying relief for industry petitioners' remaining claims and ruling in favor of environmental petitioners on a number of their challenges, including the regulation of inactive CCR surface impoundments at retired plants and the continued operation of unlined impoundments.

On March 15, 2018, EPA published proposed amendments to the federal CCR rule, including revisions that were required as part of the CCR litigation settlement, as well as changes that the agency considered warranted due to the passage of the Water Infrastructure Improvements for the Nation Act, which provides statutory authority for state and federal CCR permit programs. On July 17, 2018, EPA issued a rule (Phase 1, Part 1) finalizing certain, but not all, elements included in the agency's March 15, 2018, proposal. The final rule revises certain closure deadlines and groundwater protection standards in the CCR rule. It does not change the primary requirements for groundwater monitoring, corrective action, inspections and maintenance, and closure, and thus does not materially affect Duke Energy's coal ash basin closure plans or compliance obligations under the CCR rule. On October 22, 2018, a coalition of environmental groups filed a petition for review in the D.C. Circuit Court challenging EPA's final Phase 1, Part 1 revisions to the CCR rule. On March 13, 2019, the D.C. Circuit Court issued an order in the Phase 1, Part 1 litigation granting EPA's motion to remand the rule without vacatur. EPA is currently conducting multiple notice-and-comment rulemakings to implement the court's decision on remand.

In addition to the requirements of the federal CCR rule, CCR landfills and surface impoundments will continue to be regulated by most states. Cost recovery for future expenditures will be pursued through the normal ratemaking process with federal and state utility commissions and via wholesale contracts, which permit recovery of necessary and prudently incurred costs associated with Duke Energy's regulated operations. For more information, see Notes 4 and 10 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively.

Coal Ash Management Act of 2014

AROs recorded on the Duke Energy Carolinas and Duke Energy Progress Consolidated Balance Sheets at December 31, 2019, and December 31, 2018, include the legal obligation for closure of coal ash basins and the disposal of related ash as a result of the Coal Ash Act, the EPA CCR rule and other agreements. The Coal Ash Act includes a variance procedure for compliance deadlines and other issues surrounding the management of CCR and CCR surface impoundments and prohibits cost recovery in customer rates for unlawful discharge of ash impoundment waters occurring after January 1, 2014. The Coal Ash Act leaves the decision on cost recovery determinations related to closure of ash impoundments to the normal ratemaking processes before utility regulatory commissions.

Consistent with the requirements of the Coal Ash Act, Duke Energy previously submitted comprehensive site assessments and groundwater corrective plans to NCDEQ. In addition, on December 31, 2019, Duke Energy submitted updated groundwater corrective action plans and site-specific coal ash impoundment closure plans to NCDEQ.

On April 1, 2019, NCDEQ issued a closure determination requiring Duke Energy Carolinas and Duke Energy Progress to excavate all remaining coal ash impoundments at the Allen, Belews Creek, Rogers, Marshall, Mayo and Roxboro facilities in North Carolina. On April 26, 2019, Duke Energy Carolinas and Duke Energy Progress filed Petitions for Contested Case Hearings in the Office of Administrative Hearings to challenge NCDEQ's April 1 Order. On December 31, 2019, Duke Energy Carolinas and Duke Energy Progress entered into a settlement agreement with NCDEQ and certain community groups under which Duke Energy Carolinas and Duke Energy Progress agreed to excavate seven of the nine remaining coal ash basins at these sites with ash moved to on-site lined landfills, including two at Allen, one at Belews Creek, one at Mayo, one at Roxboro, and two at Rogers. At the two remaining basins at Marshall and Roxboro, uncapped basin ash will be excavated and moved to lined landfills. Those portions of the basins at Marshall and Roxboro, which were previously filled with ash and on which permitted facilities were constructed, will not be disturbed and will be closed pursuant to other state regulations. For more information, see Note 5, "Commitments and Contingencies," to the Consolidated Financial Statements.

Following NCDEQ's April 1 Order, Duke Energy estimated the incremental undiscounted cost to close the nine remaining impoundments by excavation would be approximately \$4 billion to \$5 billion, potentially increasing the total estimated costs to permanently close all ash basins in North Carolina and South Carolina to \$9.5 billion to \$10.5 billion. The settlement lowers the estimated total undiscounted cost to close the nine remaining basins by excavation by approximately \$1.5 billion as compared to Duke Energy's original estimate that followed the order. As a result, the estimated total cost to permanently close all ash basins in North Carolina and South Carolina is now approximately \$8 billion to \$9 billion, of which approximately \$2.3 billion has been spent through 2019. The majority of the remaining spend is expected to occur over the next 15-20 years. Duke Energy intends to seek recovery of all costs through the ratemaking process consistent with previous proceedings.

In 2019, Duke Energy completed excavation of all coal ash at the Riverbend and Dan River plants and coal ash regulated by the Coal Ash Act at the Sutton plant.

For further information on ash basins and recovery, see Notes 4 and 10 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively.

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Step 13 2021

PART II

Estimated Cost and Impacts of Rulemakings

Duke Energy will incur capital expenditures to comply with the environmental regulations and rules discussed above. The following table, as of December 31, 2019, provides five-year estimated costs, excluding AFUDC, of new control equipment that may need to be installed on existing power plants primarily to comply with the Coal Ash Act requirements for conversion to dry disposal of bottom ash and fly ash, CWA 316(b) and Effluent Limitations Guidelines through December 31, 2024. The table excludes ash basin closure costs recorded in Asset retirement obligations on the Consolidated Balance Sheets. For more information related to AROs, see Note 10 to the Consolidated Financial Statements.

(in millions)	Five-Year Estimated Costs
Duke Energy	\$ 280
Duke Energy Carolinas	135
Progress Energy	90
Duke Energy Progress	60
Duke Energy Florida	30
Duke Energy Ohio	5
Duke Energy Indiana	50

The Duke Energy Registrants also expect to incur increased fuel, purchased power, operation and maintenance and other expenses, in addition to costs for replacement generation for potential coal-fired power plant retirements, as a result of these regulations. Actual compliance costs incurred may be materially different from these estimates due to reasons such as the timing and requirements of EPA regulations and the resolution of legal challenges to the rules. The Duke Energy Registrants intend to seek rate recovery of necessary and prudently incurred costs associated with regulated operations to comply with these regulations.

Other Environmental Regulations

The Duke Energy Registrants are also subject to various federal, state and local laws regarding air and water quality, hazardous and solid waste disposal and other environmental matters, including the following:

- Clean Water Act
- Steam Effluent Limitation Guidelines
- Cross-State Air Pollution Rule
- Clean Power Plan/ACE Rule

Duke Energy continues to comply with enacted environmental statutes and regulations even as certain of these regulations are in various stages of clarification, revision or legal challenge. The Duke Energy Registrants cannot predict the outcome of these matters.

Section 126 Petitions

On November 16, 2016, the state of Maryland filed a petition with EPA under Section 126 of the Clean Air Act alleging that 19 power plants, including two plants (three units) that Duke Energy Registrants own and operate, contribute to violations of EPA's National Ambient Air Quality Standards (NAAQS) for ozone in the state of Maryland. On March 12, 2018, the state of New York filed a petition with EPA, also under Section 126 of the Clean Air Act alleging that over 60 power plants, including six that Duke Energy Registrants own and operate, contribute to violations of EPA's ozone NAAQS in the state of New York. Both Maryland and New York sought EPA orders requiring the states in which the named power plants operate impose more stringent NOx emission limitations on the plants. On October 5, 2018, EPA denied the Maryland petition. That same day, Maryland appealed EPA's denial. On October 18, 2019, EPA denied the New York petition, and New York appealed that decision on October 29, 2019. Both

appeals are before the D.C. Circuit Court. The impact of these petitions could be more stringent requirements for the operation of NOx emission controls at these plants. The Duke Energy Registrants cannot predict the outcome of these matters.

Global Climate Change

On September 17, 2019, Duke Energy announced an updated climate strategy with a new goal of net-zero carbon emissions from electric generation by 2050. Timelines and initiatives, as well as implementation of new technologies, will vary in each state in which the company operates and will involve collaboration with regulators, customers and other stakeholders.

The Duke Energy Registrants' GHG emissions consist primarily of CO₂ and result primarily from operating a fleet of coal-fired and natural gas-fired power plants. In 2019, the Duke Energy Registrants' power plants emitted approximately 93 million tons of CO₂. Future levels of CO₂ emissions will be influenced by variables that include fuel prices, market prices, compliance with new or existing regulations, economic conditions that affect electricity demand and the technologies deployed to generate the electricity necessary to meet the customer demand.

The Duke Energy Registrants have taken actions that have resulted in a reduction of CO₂ emissions over time. Actions have included the retirement of 47 coal-fired Electric Generating Units with a combined generating capacity of 5,425 MW. Much of that capacity has been replaced with state-of-the-art highly efficient natural gas-fired generation that produces far fewer CO₂ emissions per unit of electricity generated. Duke Energy also has made investments to expand its portfolio of wind and solar projects, increase EE offerings and invest in its zero-CO₂ emissions hydropower and nuclear plants. These efforts have diversified its system and significantly reduced CO₂ emissions. Between 2005 and 2019, the Duke Energy Registrants have collectively lowered the CO₂ emissions from their electricity generation by 39%, which potentially lowers the exposure to any future mandatory CO₂ emission reduction requirements or carbon tax, whether as a result of federal legislation, EPA regulation, state regulation or other as yet unknown emission reduction requirement. Duke Energy will continue to explore the use of currently available and commercially demonstrated technology to reduce CO₂ emissions, including EE, wind, solar, storage and nuclear. Duke Energy will adjust to evolving and innovative technologies in a way that balances the reliability and affordability that customers expect. Under any future scenario involving mandatory CO₂ limitations, the Duke Energy Registrants would plan to seek recovery of their compliance costs through appropriate regulatory mechanisms.

The Duke Energy Registrants recognize certain groups associate severe weather events with increasing levels of GHGs in the atmosphere and forecast the possibility these weather events could have a material impact on future results of operations should they occur more frequently and with greater severity. However, the uncertain nature of potential changes in extreme weather events (such as increased frequency, duration and severity), the long period of time over which any potential changes might take place and the inability to predict potential changes with any degree of accuracy, make estimating any potential future financial risk to the Duke Energy Registrants' operations impossible.

The Duke Energy Registrants annually, biennially or triennially prepare lengthy, forward-looking IRPs. These detailed, highly technical plans are based on the company's thorough analysis of numerous factors that can impact the cost of producing and delivering electricity that influence long-term resource planning decisions. The IRP process helps to evaluate a range of options, taking into account forecasts of future electricity demand, fuel prices, transmission improvements, new generating capacity, integration of renewables, energy storage, EE and demand response initiatives. The IRP process also helps evaluate potential environmental and regulatory scenarios to better mitigate policy and economic risks. The IRPs we file with regulators look out 10 to 20 years depending on the jurisdiction.

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PART II

For a number of years, the Duke Energy Registrants have included a price on CO₂ emissions in their IRP planning process to account for the potential regulation of CO₂ emissions. Incorporating a price on CO₂ emissions in the IRPs allows for the evaluation of existing and future resource needs against potential climate change policy risk in the absence of policy certainty. One of the challenges with using a CO₂ price, especially in the absence of a clear and certain policy, is determining the appropriate price to use. To address this uncertainty and ensure the company remains agile, the Duke Energy Registrants typically use a range of potential CO₂ prices to reflect a range of potential policy outcomes.

The Duke Energy Registrants routinely take steps to reduce the potential impact of severe weather events on their electric distribution systems by modernizing the electric grid through smart meters, storm hardening, self-healing and targeted undergrounding and applying lessons learned from previous storms to restoration efforts. The Duke Energy Registrants' electric generating facilities are designed to withstand extreme weather events without significant damage. The Duke Energy Registrants maintain an inventory of coal and oil on-site to mitigate the effects of any potential short-term disruption in fuel supply so they can continue to provide customers with an uninterrupted supply of electricity.

State Legislation

In July 2017, the North Carolina General Assembly passed House Bill 589, and it was subsequently signed into law by the governor. The law includes, among other things, overall reform of the application of PURPA for new solar projects in the state, a requirement for the utility to procure approximately 2,600 MW of renewable energy through a competitive bidding process and recovery

of costs related to the competitive bidding process through the fuel clause and a competitive procurement rider.

In accordance with the provisions of HB 589, total procurement was changed based upon how much generation with no economic dispatch or curtailment occurs over the procurement period. Most of this type of generation is solar procured under PURPA. Based upon the current forecasted amount of such generation that will occur over procurement period, Duke Energy estimates the total under HB 589 competitive procurement will be approximately 1,500 to 2,000 MW.

Based on an independent evaluation process, Duke Energy will own or purchase a total of 551 MW of renewable energy from projects under the North Carolina's CPRE program. The process used was approved by the NCUC to select projects that would deliver the lowest cost renewable energy for customers. Five Duke Energy projects, totaling about 190 MW, were selected during the competitive bidding process. Duke Energy has completed the contracting process for the winning projects. A second tranche for CPRE opened in October 2019 and bids are due by March 9, 2020; the current target date for execution of the contracts is the fourth quarter of 2020.

In various states, legislation is being considered to allow third-party sales of electricity. Deregulation or restructuring in the electric industry may result in increased competition and unrecovered costs. The Duke Energy Registrants cannot predict the outcome of these initiatives.

New Accounting Standards

See Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies," for a discussion of the impact of new accounting standards.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

See "Management's Discussion and Analysis of Results of Operations and Financial Condition – Quantitative and Qualitative Disclosures About Market Risk."

PART II

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

Duke Energy

Report of Independent Registered Public Accounting Firm	59
Consolidated Statements of Operations	61
Consolidated Statements of Comprehensive Income	62
Consolidated Balance Sheets	63
Consolidated Statements of Cash Flows	65
Consolidated Statements of Changes in Equity	67

Duke Energy Carolinas

Report of Independent Registered Public Accounting Firm	68
Consolidated Statements of Operations and Comprehensive Income	69
Consolidated Balance Sheets	70
Consolidated Statements of Cash Flows	71
Consolidated Statements of Changes in Equity	72

Progress Energy

Report of Independent Registered Public Accounting Firm	73
Consolidated Statements of Operations and Comprehensive Income	74
Consolidated Balance Sheets	75
Consolidated Statements of Cash Flows	76
Consolidated Statements of Changes in Equity	77

Duke Energy Progress

Report of Independent Registered Public Accounting Firm	78
Consolidated Statements of Operations and Comprehensive Income	79
Consolidated Balance Sheets	80
Consolidated Statements of Cash Flows	81
Consolidated Statements of Changes in Equity	82

Duke Energy Florida

Report of Independent Registered Public Accounting Firm	83
Consolidated Statements of Operations and Comprehensive Income	84
Consolidated Balance Sheets	85
Consolidated Statements of Cash Flows	86
Consolidated Statements of Changes in Equity	87

Duke Energy Ohio

Report of Independent Registered Public Accounting Firm	88
Consolidated Statements of Operations and Comprehensive Income	89
Consolidated Balance Sheets	90
Consolidated Statements of Cash Flows	91
Consolidated Statements of Changes in Equity	92

Duke Energy Indiana

Report of Independent Registered Public Accounting Firm	93
Consolidated Statements of Operations and Comprehensive Income	94
Consolidated Balance Sheets	95
Consolidated Statements of Cash Flows	96
Consolidated Statements of Changes in Equity	97

Piedmont

Report of Independent Registered Public Accounting Firm	98
Consolidated Statements of Operations and Comprehensive Income	99
Consolidated Balance Sheets	100
Consolidated Statements of Cash Flows	101
Consolidated Statements of Changes in Equity	102

Combined Notes to Consolidated Financial Statements

Note 1 – Summary of Significant Accounting Policies	103
Note 2 – Acquisitions and Dispositions	110
Note 3 – Business Segments	111
Note 4 – Regulatory Matters	115
Note 5 – Commitments and Contingencies	134
Note 6 – Leases	139
Note 7 – Debt and Credit Facilities	143
Note 8 – Guarantees and Indemnifications	148
Note 9 – Joint Ownership of Generating and Transmission Facilities	149
Note 10 – Asset Retirement Obligations	149
Note 11 – Property, Plant and Equipment	152
Note 12 – Goodwill and Intangible Assets	154
Note 13 – Investments in Unconsolidated Affiliates	156
Note 14 – Related Party Transactions	157
Note 15 – Derivatives and Hedging	158
Note 16 – Investments in Debt and Equity Securities	162
Note 17 – Fair Value Measurements	169
Note 18 – Variable Interest Entities	174
Note 19 – Revenue	178
Note 20 – Stockholders' Equity	182
Note 21 – Severance	184
Note 22 – Stock-Based Compensation	184
Note 23 – Employee Benefit Plans	186
Note 24 – Income Taxes	200
Note 25 – Other Income and Expenses, Net	207
Note 26 – Subsequent Events	207
Note 27 – Quarterly Financial Data (Unaudited)	208

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Step 13 2021

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholders and the Board of Directors of
Duke Energy Corporation

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Corporation and subsidiaries (the "Company") as of December 31, 2019 and 2018, the related consolidated statements of operations, comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2019, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2019 and 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019, in conformity with accounting principles generally accepted in the United States of America.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2019, based on criteria established in *Internal Control - Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated February 20, 2020, expressed an unqualified opinion on the Company's internal control over financial reporting.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical Audit Matters

The critical audit matters communicated below are matters arising from the current-period audit of the financial statements that were communicated or required to be communicated to the audit committee and that (1) relate to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matters below, providing separate opinions on the critical audit matters or on the accounts or disclosures to which they relate.

Investment in Unconsolidated Affiliates - Equity Method Investments - Refer to Notes 4 and 13 to the financial statements.

Critical Audit Matter Description

Investments in affiliates that are not controlled by the Company but over which the Company has significant influence are accounted for using the equity method of accounting. Equity method investments are assessed for impairment whenever events or changes in circumstances indicate that the carrying amount of the investment may not be recoverable. If the decline in value is considered to be other than temporary, the investment is written down to its estimated fair value, which establishes a new cost basis in the investment.

At December 31, 2019, the carrying value of the equity method investment in Atlantic Coast Pipeline, LLC (ACP) was \$1.2 billion. ACP has received several adverse court rulings, and as a result, the Company evaluated this investment for impairment. The Company has determined that fair value approximates carrying value and, therefore, concluded the investment is not impaired. The Company used probability-weighted outcome scenarios of discounted future cash flows to estimate the fair value of the investment. The use of probability-weighted, discounted cash flows requires management to make significant estimates regarding the likelihood of various scenarios, the key assumptions including total construction cost and revenues, and the discount rate utilized to determine the fair value estimate. Changes in these assumptions could have a significant impact on the fair value estimate, which is used to determine the amount of any impairment.

We identified the impairment evaluation of ACP as a critical audit matter because of the significant estimates and assumptions management makes related to the probability-weighted, discounted cash flows. The audit procedures to evaluate the reasonableness of management's estimates and assumptions related to the likelihood of various scenarios, the key assumptions including total construction cost and revenues, and the discount rate required a high degree of auditor judgement and an increased extent of effort, including the need to involve our fair value specialists.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to the discounted, probability-weighted forecasts of future cash flows and determination of the fair value of the ACP equity method investment, included the following, among others:

- We tested the effectiveness of controls over the accounting for the ACP equity method investment, including those over the development of the fair value estimate.

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SEP 13 2021

PART II

- We evaluated the likelihood of the various outcomes used by management to develop the probability-weighted scenarios of future cash flows by:
 - Obtaining letters and making inquiries from the ACP's internal and external legal counsel regarding likely outcomes of future court rulings
 - Reading information included in the Company's and the project manager's press releases, regulatory filings and orders, legal briefs and orders, and analyst and industry reports
 - Reading internal communications to management and the Board of Directors
 - Comparing the various scenarios to scenarios previously developed by management
- We evaluated the reasonableness of the key assumptions used to develop the scenarios of future cash flows by comparing key assumptions to:
 - Internal communications and schedules to management and the Board of Directors
 - Information included in the Company's and the project manager's press releases, regulatory filings and related orders
 - Industry reports and external transaction data
 - Executed contracts and invoices
- With the assistance of our fair value specialists, we evaluated the reasonableness of the (1) valuation methodology and (2) discount rate used to develop the fair value estimate by:
 - Determining the appropriateness of the valuation methodology by comparing management's methodology to generally accepted valuation practice
 - Testing the mathematical accuracy of the fair value estimate
 - Testing the source information underlying the determination of the discount rate
 - Developing a range of independent estimates of the discount rate and comparing those to the discount rate selected by management

Regulatory Matters - Impact of Rate Regulation on the Financial Statements - Refer to Notes 1, 4, and 10 to the financial statements.

Critical Audit Matter Description

The Company is subject to regulation by federal and state utility regulatory agencies (the "Commissions"), which have jurisdiction with respect to the rates of the Company's electric and natural gas distribution companies. Management has determined it meets the criteria for the application of regulated operations accounting in preparing its financial statements under accounting principles generally accepted in the United States of America. Significant judgment can be required to determine if otherwise recognizable incurred costs qualify to be presented as a regulatory asset and deferred because such costs are probable of future recovery in customer rates. As of December 31, 2019, the Company has \$15 billion recorded as regulatory assets.

We identified the impact of rate regulation as a critical audit matter due to the significant judgments made by management, including assumptions regarding the outcome of future decisions by the Commissions, to support its assertions on the likelihood of future recovery for deferred costs. As such, auditing these judgments required specialized knowledge of accounting for rate regulation due to its inherent complexities, a high degree of auditor judgment, and an increased extent of effort.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to the recovery of regulatory assets included the following, among others:

- We tested the effectiveness of management's controls over the evaluation of the likelihood of the recovery in future rates of regulatory assets and the monitoring and evaluation of regulatory developments that may affect the likelihood of recovering costs in future rates.
- We evaluated the Company's disclosures related to the impacts of rate regulation, including the balances recorded and regulatory developments.
- We read relevant regulatory orders issued by the Commissions, regulatory statutes, interpretations, procedural memorandums, filings made by interveners, and other publicly available information to assess the likelihood of recovery in future rates based on precedence of the Commission's treatment of similar costs under similar circumstances. We evaluated the external information and compared to management's recorded regulatory asset balances for completeness.
- For regulatory matters in process, we inspected the Company's and intervenors' filings with the Commissions that may impact the Company's future rates, for any evidence that might contradict management's assertions.
- We performed audit procedures on the incurred costs requested for recovery to confirm their completeness and accuracy.
- We obtained an analysis from management and letters from internal and external legal counsel, as appropriate, regarding probability of recovery for regulatory assets not yet addressed in a regulatory order to assess management's assertion that amounts are probable of recovery.

/s/Deloitte & Touche LLP

Charlotte, North Carolina

February 20, 2020

We have served as the Company's auditor since 1947.

PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF OPERATIONS

(in millions, except per share amounts)	Years Ended December 31,		
	2019	2018	2017
Operating Revenues			
Regulated electric	\$22,615	\$22,097	\$21,177
Regulated natural gas	1,759	1,773	1,734
Nonregulated electric and other	705	651	654
Total operating revenues	25,079	24,521	23,565
Operating Expenses			
Fuel used in electric generation and purchased power	6,826	6,831	6,350
Cost of natural gas	627	697	632
Operation, maintenance and other	6,066	6,463	5,944
Depreciation and amortization	4,548	4,074	3,527
Property and other taxes	1,307	1,280	1,233
Impairment charges	(8)	402	282
Total operating expenses	19,366	19,747	17,968
(Losses) Gains on Sales of Other Assets and Other, net	(4)	(89)	28
Operating Income	5,709	4,685	5,625
Other Income and Expenses			
Equity in earnings of unconsolidated affiliates	162	83	119
Other income and expenses, net	430	399	508
Total other income and expenses	592	482	627
Interest Expense	2,204	2,094	1,986
Income From Continuing Operations Before Income Taxes	4,097	3,073	4,266
Income Tax Expense From Continuing Operations	519	448	1,196
Income From Continuing Operations	3,578	2,625	3,070
(Loss) Income From Discontinued Operations, net of tax	(7)	19	(6)
Net Income	3,571	2,644	3,064
Less: Net (Loss) Income Attributable to Noncontrolling Interests	(177)	(22)	5
Net Income Attributable to Duke Energy Corporation	3,748	2,666	3,059
Less: Preferred Dividends	41	—	—
Net Income Available to Duke Energy Corporation Common Stockholders	\$ 3,707	\$ 2,666	\$ 3,059
Earnings Per Share – Basic and Diluted			
Income from continuing operations available to Duke Energy Corporation common stockholders			
Basic and Diluted	\$ 5.07	\$ 3.73	\$ 4.37
(Loss) Income from discontinued operations attributable to Duke Energy Corporation common stockholders			
Basic and Diluted	\$ (0.01)	\$ 0.03	\$ (0.01)
Net income available to Duke Energy Corporation common stockholders			
Basic and Diluted	\$ 5.06	\$ 3.76	\$ 4.36
Weighted average shares outstanding			
Basic and Diluted	729	708	700

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2019	2018	2017
Net Income	\$3,571	\$2,644	\$3,064
Other Comprehensive (Loss) Income, net of tax^(a)			
Pension and OPEB adjustments	9	(6)	3
Net unrealized (losses) gains on cash flow hedges	(47)	(10)	2
Reclassification into earnings from cash flow hedges	6	6	8
Unrealized gains (losses) on available-for-sale securities	8	(3)	13
Other Comprehensive (Loss) Income, net of tax	(24)	(13)	26
Comprehensive Income	3,547	2,631	3,090
Less: Comprehensive (Loss) Income Attributable to Noncontrolling Interests	(177)	(22)	5
Comprehensive Income Attributable to Duke Energy Corporation	3,724	2,653	3,085
Less: Preferred Dividends	41	—	—
Comprehensive Income Available to Duke Energy Corporation Common Stockholders	\$3,683	\$2,653	\$ 3,085

(a) Tax impacts are insignificant for all periods presented.

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY CORPORATION

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2019	2018
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 311	\$ 442
Receivables (net of allowance for doubtful accounts of \$22 at 2019 and \$16 at 2018)	1,066	962
Receivables of VIEs (net of allowance for doubtful accounts of \$54 at 2019 and \$55 at 2018)	1,994	2,172
Inventory	3,232	3,084
Regulatory assets (includes \$52 at 2019 and 2018 related to VIEs)	1,796	2,005
Other (includes \$242 at 2019 and \$162 at 2018 related to VIEs)	764	1,049
Total current assets	9,163	9,714
Property, Plant and Equipment		
Cost	147,654	134,458
Accumulated depreciation and amortization	(45,773)	(43,126)
Generation facilities to be retired, net	246	362
Net property, plant and equipment	102,127	91,694
Other Noncurrent Assets		
Goodwill	19,303	19,303
Regulatory assets (includes \$989 at 2019 and \$1,041 at 2018 related to VIEs)	13,222	13,617
Nuclear decommissioning trust funds	8,140	6,720
Operating lease right-of-use assets, net	1,658	—
Investments in equity method unconsolidated affiliates	1,936	1,409
Other (includes \$110 at 2019 and \$261 at 2018 related to VIEs)	3,289	2,935
Total other noncurrent assets	47,548	43,984
Total Assets	\$158,838	\$ 145,392

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY CORPORATION

CONSOLIDATED BALANCE SHEETS – (Continued)

(in millions)	December 31,	
	2019	2018
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 3,487	\$ 3,487
Notes payable and commercial paper	3,135	3,410
Taxes accrued	392	577
Interest accrued	565	559
Current maturities of long-term debt (includes \$216 at 2019 and \$227 at 2018 related to VIEs)	3,141	3,406
Asset retirement obligations	881	919
Regulatory liabilities	784	598
Other	2,367	2,085
Total current liabilities	14,752	15,041
Long-Term Debt (includes \$3,997 at 2019 and \$3,998 at 2018 related to VIEs)	54,985	51,123
Other Noncurrent Liabilities		
Deferred income taxes	8,878	7,806
Asset retirement obligations	12,437	9,548
Regulatory liabilities	15,264	14,834
Operating lease liabilities	1,432	—
Accrued pension and other post-retirement benefit costs	934	988
Investment tax credits	624	568
Other (includes \$228 at 2019 and \$212 at 2018 related to VIEs)	1,581	1,650
Total other noncurrent liabilities	41,150	35,394
Commitments and Contingencies		
Equity		
Preferred stock, Series A, \$0.001 par value, 40 million depositary shares authorized and outstanding at 2019	973	—
Preferred stock, Series B, \$0.001 par value, 1 million shares authorized and outstanding at 2019	989	—
Common stock, \$0.001 par value, 2 billion shares authorized; 733 million shares outstanding at 2019 and 727 million shares outstanding at 2018	1	1
Additional paid-in capital	40,881	40,795
Retained earnings	4,108	3,113
Accumulated other comprehensive loss	(130)	(92)
Total Duke Energy Corporation stockholders' equity	46,822	43,817
Noncontrolling interests	1,129	17
Total equity	47,951	43,834
Total Liabilities and Equity	\$158,838	\$145,392

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2019	2018	2017
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 3,571	\$ 2,644	\$ 3,064
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion (including amortization of nuclear fuel)	5,176	4,696	4,046
Equity component of AFUDC	(139)	(221)	(237)
Losses (Gains) on sales of other assets	4	88	(33)
Impairment charges	(8)	402	282
Deferred income taxes	806	1,079	1,433
Equity in earnings of unconsolidated affiliates	(162)	(83)	(119)
Accrued pension and other post-retirement benefit costs	24	61	8
Contributions to qualified pension plans	(77)	(141)	(19)
Payments for asset retirement obligations	(746)	(533)	(571)
Payment for the disposal of other assets	—	(105)	—
Provision for rate refunds	60	425	—
Refund of AMT credit carryforwards	573	—	—
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	(48)	22	18
Receivables	78	(345)	(83)
Inventory	(122)	156	268
Other current assets	10	(721)	(400)
Increase (decrease) in			
Accounts payable	(164)	479	(204)
Taxes accrued	(224)	23	149
Other current liabilities	172	270	(482)
Other assets	(520)	(971)	(436)
Other liabilities	(55)	(39)	(60)
Net cash provided by operating activities	8,209	7,186	6,624
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(11,122)	(9,389)	(8,052)
Contributions to equity method investments	(324)	(416)	(414)
Return of investment capital	11	137	281
Purchases of debt and equity securities	(3,348)	(3,762)	(4,071)
Proceeds from sales and maturities of debt and equity securities	3,343	3,747	4,098
Other	(517)	(377)	(284)
Net cash used in investing activities	(11,957)	(10,060)	(8,442)

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF CASH FLOWS – (Continued)

(in millions)	Years Ended December 31,		
	2019	2018	2017
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the:			
Issuance of long-term debt	\$ 7,091	\$ 5,299	\$ 6,909
Issuance of preferred stock	1,962	—	—
Issuance of common stock	384	1,838	—
Payments for the redemption of long-term debt	(3,476)	(2,906)	(2,316)
Proceeds from the issuance of short-term debt with original maturities greater than 90 days	397	472	319
Payments for the redemption of short-term debt with original maturities greater than 90 days	(479)	(282)	(272)
Notes payable and commercial paper	(298)	981	(409)
Contributions from noncontrolling interests	843	41	—
Dividends paid	(2,668)	(2,471)	(2,450)
Other	(26)	(12)	1
Net cash provided by financing activities	3,730	2,960	1,782
Net (decrease) increase in cash, cash equivalents, and restricted cash	(18)	86	(36)
Cash, cash equivalents, and restricted cash at beginning of period	591	505	541
Cash, cash equivalents, and restricted cash at end of period	\$ 573	\$ 591	\$ 505
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 2,195	\$ 2,086	\$ 1,963
Cash (received from) paid for income taxes	(651)	(266)	4
Significant non-cash transactions:			
Accrued capital expenditures	1,356	1,112	1,032
Non-cash dividends	108	107	—

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Duke Energy Corporation Stockholders' Accumulated Other Comprehensive Income (Loss)										
	Preferred Stock	Common Stock Shares	Common Stock	Additional Paid-in Capital	Retained Earnings	Net Losses on Cash Flow Hedges	Net Unrealized Gains (Losses) on Available-for-Sale Securities	Pension and OPEB Adjustments	Total Duke Energy Corporation Stockholders' Equity	Noncontrolling Interests	Total Equity
Balance at December 31, 2016	—	700	\$ 1	\$ 38,741	\$ 2,384	\$ (20)	\$ (1)	\$ (72)	\$ 41,033	\$ 8	\$ 41,041
Net income	—	—	—	—	3,059	—	—	—	3,059	5	3,064
Other comprehensive income	—	—	—	—	—	10	13	3	26	—	26
Common stock issuances, including dividend reinvestment and employee benefits	—	—	—	51	—	—	—	—	51	—	51
Common stock dividends	—	—	—	—	(2,450)	—	—	—	(2,450)	—	(2,450)
Distributions to noncontrolling interest in subsidiaries	—	—	—	—	—	—	—	—	—	(2)	(2)
Other ^(a)	—	—	—	—	20	—	—	—	20	(13)	7
Balance at December 31, 2017	—	700	\$ 1	\$ 38,792	\$ 3,013	\$ (10)	\$ 12	\$ (69)	\$ 41,739	\$ (2)	\$ 41,737
Net income	—	—	—	—	2,666	—	—	—	2,666	(22)	2,644
Other comprehensive loss	—	—	—	—	—	(4)	(3)	(6)	(13)	—	(13)
Common stock issuances, including dividend reinvestment and employee benefits	—	27	—	2,003	—	—	—	—	2,003	—	2,003
Common stock dividends	—	—	—	—	(2,578)	—	—	—	(2,578)	—	(2,578)
Distributions to noncontrolling interest in subsidiaries	—	—	—	—	—	—	—	—	—	(1)	(1)
Other ^(b)	—	—	—	—	12	—	(12)	—	—	42	42
Balance at December 31, 2018	—	727	\$ 1	\$ 40,795	\$ 3,113	\$ (14)	\$ (3)	\$ (75)	\$ 43,817	\$ 17	\$ 43,834
Net income	—	—	—	—	3,707	—	—	—	3,707	(177)	3,530
Other comprehensive (loss) income	—	—	—	—	—	(41)	8	9	(24)	—	(24)
Preferred stock, Series A, issuances, net of issuance costs ^(c)	973	—	—	—	—	—	—	—	973	—	973
Preferred stock, Series B, issuances, net of issuance costs ^(d)	989	—	—	—	—	—	—	—	989	—	989
Common stock issuances, including dividend reinvestment and employee benefits	—	6	—	552	—	—	—	—	552	—	552
Common stock dividends	—	—	—	—	(2,735)	—	—	—	(2,735)	—	(2,735)
Sale of noncontrolling interest ^(e)	—	—	—	(466)	—	10	—	—	(456)	863	407
Contribution from noncontrolling interest	—	—	—	—	—	—	—	—	—	428	428
Distributions to noncontrolling interests in subsidiaries	—	—	—	—	—	—	—	—	—	(4)	(4)
Other ^(f)	—	—	—	—	23	(6)	(2)	(16)	(1)	2	1
Balance at December 31, 2019	1,962	733	\$ 1	\$ 40,881	\$ 4,108	\$ (51)	\$ 3	\$ (82)	\$ 46,822	\$ 1,129	\$ 47,951

- (a) Retained Earnings relates to a cumulative-effect adjustment due to implementation of a new accounting standard related to stock-based compensation and the associated income taxes. See Note 1 to the Consolidated Financial Statements for additional information. Noncontrolling Interests relates to the purchase of remaining interest in REC Solar.
- (b) Amounts in Retained Earnings and AOCI represent a cumulative-effect adjustment due to implementation of a new accounting standard related to Financial Instruments Classification and Measurement. See Note 1 for more information. Amount in Noncontrolling Interests primarily relates to tax equity financing activity in the Commercial Renewables segment.
- (c) Duke Energy issued 40 million depositary shares of preferred stock, series A, in the first quarter of 2019.
- (d) Duke Energy issued 1 million shares of preferred stock, series B, in the third quarter of 2019.
- (e) See Note 3 for additional discussion of the transaction.
- (f) Amounts in Retained Earnings and AOCI primarily represent impacts to accumulated other comprehensive income due to implementation of a new accounting standard related to Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income.

See Notes to Consolidated Financial Statements

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Carolinas, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Carolinas, LLC and subsidiaries (the "Company") as of December 31, 2019 and 2018, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2019, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2019 and 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 20, 2020

We have served as the Company's auditor since 1947.

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PART II

DUKE ENERGY CAROLINAS, LLC

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2019	2018	2017
Operating Revenues	\$ 7,395	\$ 7,300	\$ 7,302
Operating Expenses			
Fuel used in electric generation and purchased power	1,804	1,821	1,822
Operation, maintenance and other	1,868	2,130	2,021
Depreciation and amortization	1,388	1,201	1,090
Property and other taxes	292	295	281
Impairment charges	17	192	—
Total operating expenses	5,369	5,639	5,214
(Losses) Gains on Sales of Other Assets and Other, net	—	(1)	1
Operating Income	2,026	1,660	2,089
Other Income and Expenses, net	151	153	199
Interest Expense	463	439	422
Income Before Income Taxes	1,714	1,374	1,866
Income Tax Expense	311	303	652
Net Income	\$ 1,403	\$ 1,071	\$ 1,214
Other Comprehensive Income, net of tax			
Reclassification into earnings from cash flow hedges	—	1	2
Other Comprehensive Income, net of tax	—	1	2
Comprehensive Income	\$ 1,403	\$ 1,072	\$ 1,216

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY CAROLINAS, LLC

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2019	2018
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 18	\$ 33
Receivables (net of allowance for doubtful accounts of \$3 at 2019 and \$2 at 2018)	324	219
Receivables of VIEs (net of allowance for doubtful accounts of \$7 at 2019 and 2018)	642	699
Receivables from affiliated companies	114	182
Inventory	996	948
Regulatory assets	550	520
Other	21	72
Total current assets	2,665	2,673
Property, Plant and Equipment		
Cost	48,922	44,741
Accumulated depreciation and amortization	(16,525)	(15,496)
Net property, plant and equipment	32,397	29,245
Other Noncurrent Assets		
Regulatory assets	3,360	3,457
Nuclear decommissioning trust funds	4,359	3,558
Operating lease right-of-use assets, net	123	—
Other	1,149	1,027
Total other noncurrent assets	8,991	8,042
Total Assets	\$ 44,053	\$ 39,960
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 954	\$ 988
Accounts payable to affiliated companies	210	230
Notes payable to affiliated companies	29	439
Taxes accrued	46	171
Interest accrued	115	102
Current maturities of long-term debt	458	6
Asset retirement obligations	206	290
Regulatory liabilities	255	199
Other	611	571
Total current liabilities	2,884	2,996
Long-Term Debt	11,142	10,633
Long-Term Debt Payable to Affiliated Companies	300	300
Other Noncurrent Liabilities		
Deferred income taxes	3,921	3,689
Asset retirement obligations	5,528	3,659
Regulatory liabilities	6,423	5,999
Operating lease liabilities	102	—
Accrued pension and other post-retirement benefit costs	84	99
Investment tax credits	231	231
Other	627	671
Total other noncurrent liabilities	16,916	14,348
Commitments and Contingencies		
Equity		
Member's equity	12,818	11,689
Accumulated other comprehensive loss	(7)	(6)
Total equity	12,811	11,683
Total Liabilities and Equity	\$ 44,053	\$ 39,960

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY CAROLINAS, LLC

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2019	2018	2017
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 1,403	\$ 1,071	\$ 1,214
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization (including amortization of nuclear fuel)	1,671	1,487	1,409
Equity component of AFUDC	(42)	(73)	(106)
Losses (Gains) on sales of other assets	—	1	(1)
Impairment charges	17	192	—
Deferred income taxes	133	305	410
Accrued pension and other post-retirement benefit costs	(5)	4	(4)
Contributions to qualified pension plans	(7)	(46)	—
Payments for asset retirement obligations	(278)	(230)	(271)
Provision for rate refunds	36	182	—
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	(8)	2	9
Receivables	(21)	(86)	(9)
Receivables from affiliated companies	68	(87)	68
Inventory	(48)	25	78
Other current assets	(73)	(161)	7
Increase (decrease) in			
Accounts payable	(50)	168	23
Accounts payable to affiliated companies	(20)	21	(38)
Taxes accrued	(127)	(65)	86
Other current liabilities	127	89	(161)
Other assets	(31)	(179)	(49)
Other liabilities	(36)	(90)	(31)
Net cash provided by operating activities	2,709	2,530	2,634
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(2,714)	(2,706)	(2,524)
Purchases of debt and equity securities	(1,658)	(1,810)	(2,124)
Proceeds from sales and maturities of debt and equity securities	1,658	1,810	2,128
Notes receivable from affiliated companies	—	—	66
Other	(204)	(147)	(109)
Net cash used in investing activities	(2,918)	(2,853)	(2,563)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	886	1,983	569
Payments for the redemption of long-term debt	(6)	(1,205)	(116)
Notes payable to affiliated companies	(410)	335	104
Distributions to parent	(275)	(750)	(625)
Other	(1)	(23)	(1)
Net cash provided by (used in) financing activities	194	340	(69)
Net (decrease) increase in cash and cash equivalents	(15)	17	2
Cash and cash equivalents at beginning of period	33	16	14
Cash and cash equivalents at end of period	\$ 18	\$ 33	\$ 16
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 433	\$ 452	\$ 398
Cash paid for income taxes	122	89	193
Significant non-cash transactions:			
Accrued capital expenditures	347	302	315

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY CAROLINAS, LLC

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Member's Equity	Accumulated Other Comprehensive Loss	Total Equity
		Net Gains (Losses) on Cash Flow Hedges	
Balance at December 31, 2016	\$ 10,781	\$ (9)	\$10,772
Net income	1,214	—	1,214
Other comprehensive income	—	2	2
Distributions to parent	(625)	—	(625)
Other	(2)	—	(2)
Balance at December 31, 2017	\$ 11,368	\$ (7)	\$11,361
Net income	1,071	—	1,071
Other comprehensive income	—	1	1
Distributions to parent	(750)	—	(750)
Balance at December 31, 2018	\$ 11,689	\$ (6)	\$11,683
Net income	1,403	—	1,403
Distributions to parent	(275)	—	(275)
Other	1	(1)	—
Balance at December 31, 2019	\$ 12,818	\$ (7)	\$12,811

See Notes to Consolidated Financial Statements

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PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Progress Energy, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Progress Energy, Inc. and subsidiaries (the “Company”) as of December 31, 2019 and 2018, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2019, and the related notes (collectively referred to as the “financial statements”). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2019 and 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company’s management. Our responsibility is to express an opinion on the Company’s financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company’s internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 20, 2020

We have served as the Company’s auditor since 1930.

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PART II

PROGRESS ENERGY, INC.

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2019	2018	2017
Operating Revenues	\$11,202	\$10,728	\$ 9,783
Operating Expenses			
Fuel used in electric generation and purchased power	4,024	3,976	3,417
Operation, maintenance and other	2,495	2,613	2,301
Depreciation and amortization	1,845	1,619	1,285
Property and other taxes	561	529	503
Impairment charges	(24)	87	156
Total operating expenses	8,901	8,824	7,662
Gains on Sales of Other Assets and Other, net	—	24	26
Operating Income	2,301	1,928	2,147
Other Income and Expenses, net	141	165	209
Interest Expense	862	842	824
Income Before Income Taxes	1,580	1,251	1,532
Income Tax Expense	253	218	264
Net Income	1,327	1,033	1,268
Less: Net Income Attributable to Noncontrolling Interests	—	6	10
Net Income Attributable to Parent	\$ 1,327	\$ 1,027	\$ 1,258
Net Income	\$ 1,327	\$ 1,033	\$ 1,268
Other Comprehensive Income, net of tax			
Pension and OPEB adjustments	2	5	4
Net unrealized gain on cash flow hedges	5	6	5
Unrealized gains (losses) on available-for-sale securities	1	(1)	4
Other Comprehensive Income, net of tax	8	10	13
Comprehensive Income	1,335	1,043	1,281
Less: Comprehensive Income Attributable to Noncontrolling Interests	—	6	10
Comprehensive Income Attributable to Parent	\$ 1,335	\$ 1,037	\$ 1,271

See Notes to Consolidated Financial Statements

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PART II

PROGRESS ENERGY, INC.

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2019	2018
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 48	\$ 67
Receivables (net of allowance for doubtful accounts of \$7 at 2019 and \$5 at 2018)	220	220
Receivables of VIEs (net of allowance for doubtful accounts of \$9 at 2019 and \$8 at 2018)	830	909
Receivables from affiliated companies	76	168
Notes receivable from affiliated companies	164	—
Inventory	1,423	1,459
Regulatory assets (includes \$52 at 2019 and 2018 related to VIEs)	946	1,137
Other (includes \$39 at 2019 and 2018 related to VIEs)	210	125
Total current assets	3,917	4,085
Property, Plant and Equipment		
Cost	55,070	50,260
Accumulated depreciation and amortization	(17,159)	(16,398)
Generation facilities to be retired, net	246	362
Net property, plant and equipment	38,157	34,224
Other Noncurrent Assets		
Goodwill	3,655	3,655
Regulatory assets (includes \$989 at 2019 and \$1,041 at 2018 related to VIEs)	6,346	6,564
Nuclear decommissioning trust funds	3,782	3,162
Operating lease right-of-use assets, net	788	—
Other	1,049	974
Total other noncurrent assets	15,620	14,355
Total Assets	\$ 57,694	\$ 52,664
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 1,104	\$ 1,172
Accounts payable to affiliated companies	310	360
Notes payable to affiliated companies	1,821	1,235
Taxes accrued	46	109
Interest accrued	228	246
Current maturities of long-term debt (includes \$54 at 2019 and \$53 at 2018 related to VIEs)	1,577	1,672
Asset retirement obligations	485	514
Regulatory liabilities	330	280
Other	902	821
Total current liabilities	6,803	6,409
Long-Term Debt (includes \$1,632 at 2019 and \$1,636 at 2018 related to VIEs)	17,907	17,089
Long-Term Debt Payable to Affiliated Companies	150	150
Other Noncurrent Liabilities		
Deferred income taxes	4,462	3,941
Asset retirement obligations	5,986	4,897
Regulatory liabilities	5,225	5,049
Operating lease liabilities	697	—
Accrued pension and other post-retirement benefit costs	488	521
Other	383	351
Total other noncurrent liabilities	17,241	14,759
Commitments and Contingencies		
Equity		
Common stock, \$0.01 par value, 100 shares authorized and outstanding at 2019 and 2018	—	—
Additional paid-in capital	9,143	9,143
Retained earnings	6,465	5,131
Accumulated other comprehensive loss	(18)	(20)
Total Progress Energy, Inc. stockholder's equity	15,590	14,254
Noncontrolling interests	3	3
Total equity	15,593	14,257
Total Liabilities and Equity	\$ 57,694	\$ 52,664

See Notes to Consolidated Financial Statements

PART II

PROGRESS ENERGY, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2019	2018	2017
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 1,327	\$ 1,033	\$ 1,268
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion (including amortization of nuclear fuel)	2,207	1,987	1,516
Equity component of AFUDC	(66)	(104)	(92)
Gains on sales of other assets	—	(24)	(28)
Impairment charges	(24)	87	156
Deferred income taxes	433	358	703
Accrued pension and other post-retirement benefit costs	20	24	(28)
Contributions to qualified pension plans	(57)	(45)	—
Payments for asset retirement obligations	(412)	(230)	(248)
Provision for rate refunds	15	122	—
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	(34)	18	—
Receivables	47	(207)	(89)
Receivables from affiliated companies	81	(137)	71
Inventory	62	121	125
Other current assets	184	(12)	(397)
Increase (decrease) in			
Accounts payable	(4)	217	(260)
Accounts payable to affiliated companies	(50)	109	(97)
Taxes accrued	(74)	8	17
Other current liabilities	25	129	(166)
Other assets	(336)	(876)	(300)
Other liabilities	(135)	(34)	(98)
Net cash provided by operating activities	3,209	2,544	2,053
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(3,952)	(3,854)	(3,152)
Purchases of debt and equity securities	(1,511)	(1,753)	(1,806)
Proceeds from sales and maturities of debt and equity securities	1,504	1,769	1,824
Notes receivable from affiliated companies	(164)	240	(160)
Other	(190)	(162)	(59)
Net cash used in investing activities	(4,313)	(3,760)	(3,353)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	2,187	1,833	2,118
Payments for the redemption of long-term debt	(1,667)	(771)	(813)
Notes payable to affiliated companies	586	430	100
Dividends to parent	—	(250)	(124)
Other	12	(1)	(4)
Net cash provided by financing activities	1,118	1,241	1,277
Net increase (decrease) in cash, cash equivalents, and restricted cash	14	25	(23)
Cash, cash equivalents, and restricted cash at beginning of period	112	87	110
Cash, cash equivalents, and restricted cash at end of period	\$ 126	\$ 112	\$ 87
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 892	\$ 798	\$ 773
Cash received from income taxes	(79)	(348)	(146)
Significant non-cash transactions:			
Accrued capital expenditures	447	478	391
Equitization of certain notes payable to affiliates	—	—	1,047
Dividend to parent related to a legal entity restructuring	—	—	547

See Notes to Consolidated Financial Statements

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PART II

PROGRESS ENERGY, INC.

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Additional Paid-in Capital	Retained Earnings	Accumulated Other Comprehensive Income (Loss)			Total Progress Energy, Inc. Stockholder's Equity	Noncontrolling Interests	Total Equity
			Net Gains (Losses) on Cash Flow Hedges	Net Unrealized Gains (Losses) on Available-for- Sale Securities	Pension and OPEB Adjustments			
Balance at December 31, 2016	\$ 8,094	\$ 3,764	\$ (23)	\$ 1	\$ (16)	\$ 11,820	\$ (13)	\$ 11,807
Net income	—	1,258	—	—	—	1,258	10	1,268
Other comprehensive income	—	—	5	4	4	13	—	13
Dividends to parent ^(a)	—	(672)	—	—	—	(672)	—	(672)
Equitization of certain notes payable to affiliates	1,047	—	—	—	—	1,047	—	1,047
Other	2	—	—	—	—	2	—	2
Balance at December 31, 2017	\$ 9,143	\$ 4,350	\$ (18)	\$ 5	\$ (12)	\$ 13,468	\$ (3)	\$ 13,465
Net income	—	1,027	—	—	—	1,027	6	1,033
Other comprehensive income (loss)	—	—	6	(1)	5	10	—	10
Distributions to noncontrolling interests	—	—	—	—	—	—	(1)	(1)
Dividends to parent	—	(250)	—	—	—	(250)	—	(250)
Other ^(b)	—	4	—	(5)	—	(1)	1	—
Balance at December 31, 2018	\$ 9,143	\$ 5,131	\$ (12)	\$ (1)	\$ (7)	\$ 14,254	\$ 3	\$ 14,257
Net income	—	1,327	—	—	—	1,327	—	1,327
Other comprehensive income	—	—	5	1	2	8	—	8
Other ^(c)	—	7	(3)	(1)	(2)	1	—	1
Balance at December 31, 2019	\$ 9,143	\$ 6,465	\$ (10)	\$ (1)	\$ (7)	\$ 15,590	\$ 3	\$ 15,593

(a) Includes a \$547 million non-cash dividend related to a legal entity restructuring.

(b) Amounts in Retained Earnings and AOCI represent a cumulative-effect adjustment due to implementation of a new accounting standard related to Financial Instruments Classification and Measurement. See Note 1 for more information.

(c) Amounts in Retained Earnings and AOCI primarily represent impacts to accumulated other comprehensive income due to implementation of a new accounting standard related to Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income.

See Notes to Consolidated Financial Statements

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PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Progress, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Progress, LLC and subsidiaries (the "Company") as of December 31, 2019 and 2018, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2019, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2019 and 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina

February 20, 2020

We have served as the Company's auditor since 1930.

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Step 13 2021

PART II

DUKE ENERGY PROGRESS, LLC

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2019	2018	2017
Operating Revenues	\$ 5,957	\$ 5,699	\$ 5,129
Operating Expenses			
Fuel used in electric generation and purchased power	2,012	1,892	1,609
Operation, maintenance and other	1,446	1,578	1,439
Depreciation and amortization	1,143	991	725
Property and other taxes	176	155	156
Impairment charges	12	33	19
Total operating expenses	4,789	4,649	3,948
Gains on Sales of Other Assets and Other, net	—	9	4
Operating Income	1,168	1,059	1,185
Other Income and Expenses, net	100	87	115
Interest Expense	306	319	293
Income Before Income Taxes	962	827	1,007
Income Tax Expense	157	160	292
Net Income and Comprehensive Income	\$ 805	\$ 667	\$ 715

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY PROGRESS, LLC

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2019	2018
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 22	\$ 23
Receivables (net of allowance for doubtful accounts of \$3 at 2019 and \$2 at 2018)	123	75
Receivables of VIEs (net of allowance for doubtful accounts of \$5 at 2019 and 2018)	489	547
Receivables from affiliated companies	52	23
Inventory	934	954
Regulatory assets	526	703
Other	60	62
Total current assets	2,206	2,387
Property, Plant and Equipment		
Cost	34,603	31,459
Accumulated depreciation and amortization	(11,915)	(11,423)
Generation facilities to be retired, net	246	362
Net property, plant and equipment	22,934	20,398
Other Noncurrent Assets		
Regulatory assets	4,152	4,111
Nuclear decommissioning trust funds	3,047	2,503
Operating lease right-of-use assets, net	387	—
Other	651	612
Total other noncurrent assets	8,237	7,226
Total Assets	\$33,377	\$30,011
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 629	\$ 660
Accounts payable to affiliated companies	203	278
Notes payable to affiliated companies	66	294
Taxes accrued	17	53
Interest accrued	110	116
Current maturities of long-term debt	1,006	603
Asset retirement obligations	485	509
Regulatory liabilities	236	178
Other	478	408
Total current liabilities	3,230	3,099
Long-Term Debt	7,902	7,451
Long-Term Debt Payable to Affiliated Companies	150	150
Other Noncurrent Liabilities		
Deferred income taxes	2,388	2,119
Asset retirement obligations	5,408	4,311
Regulatory liabilities	4,232	3,955
Operating lease liabilities	354	—
Accrued pension and other post-retirement benefit costs	238	237
Investment tax credits	137	142
Other	92	106
Total other noncurrent liabilities	12,849	10,870
Commitments and Contingencies		
Equity		
Member's Equity	9,246	8,441
Total Liabilities and Equity	\$33,377	\$30,011

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY PROGRESS, LLC

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2019	2018	2017
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 805	\$ 667	\$ 715
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization (including amortization of nuclear fuel)	1,329	1,183	936
Equity component of AFUDC	(60)	(57)	(47)
Gains on sales of other assets	—	(9)	(5)
Impairment charges	12	33	19
Deferred income taxes	197	236	384
Accrued pension and other post-retirement benefit costs	4	15	(20)
Contributions to qualified pension plans	(3)	(25)	—
Payments for asset retirement obligations	(390)	(195)	(192)
Provisions for rate refunds	12	122	—
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	(6)	5	(4)
Receivables	21	(107)	(58)
Receivables from affiliated companies	(29)	(20)	2
Inventory	20	63	59
Other current assets	101	(201)	(75)
Increase (decrease) in			
Accounts payable	32	219	(230)
Accounts payable to affiliated companies	(75)	99	(48)
Taxes accrued	(46)	(11)	(39)
Other current liabilities	68	46	(131)
Other assets	(198)	(447)	(53)
Other liabilities	29	12	(18)
Net cash provided by operating activities	1,823	1,628	1,195
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(2,108)	(2,220)	(1,715)
Purchases of debt and equity securities	(842)	(1,236)	(1,249)
Proceeds from sales and maturities of debt and equity securities	810	1,206	1,207
Notes receivable from affiliated companies	—	—	165
Other	(119)	(95)	(51)
Net cash used in investing activities	(2,259)	(2,345)	(1,643)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	1,269	845	812
Payments for the redemption of long-term debt	(605)	(3)	(470)
Notes payable to affiliated companies	(228)	54	240
Distributions to parent	—	(175)	(124)
Other	(1)	(1)	(1)
Net cash provided by financing activities	435	720	457
Net (decrease) increase in cash and cash equivalents	(1)	3	9
Cash and cash equivalents at beginning of period	23	20	11
Cash and cash equivalents at end of period	\$ 22	\$ 23	\$ 20
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 331	\$ 303	\$ 291
Cash (received from) paid for income taxes	(30)	(112)	59
Significant non-cash transactions:			
Accrued capital expenditures	175	220	191

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY PROGRESS, LLC

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Member's Equity
Balance at December 31, 2016	\$ 7,358
Net income	715
Distribution to parent	(124)
Balance at December 31, 2017	\$ 7,949
Net income	667
Distribution to parent	(175)
Balance at December 31, 2018	\$ 8,441
Net income	805
Balance at December 31, 2019	\$ 9,246

See Notes to Consolidated Financial Statements

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PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Florida, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Florida, LLC and subsidiaries (the “Company”) as of December 31, 2019 and 2018, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2019, and the related notes (collectively referred to as the “financial statements”). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2019 and 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company’s management. Our responsibility is to express an opinion on the Company’s financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company’s internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 20, 2020

We have served as the Company’s auditor since 2001.

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PART II

DUKE ENERGY FLORIDA, LLC

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2019	2018	2017
Operating Revenues	\$ 5,231	\$ 5,021	\$ 4,646
Operating Expenses			
Fuel used in electric generation and purchased power	2,012	2,085	1,808
Operation, maintenance and other	1,034	1,025	853
Depreciation and amortization	702	628	560
Property and other taxes	392	374	347
Impairment charges	(36)	54	138
Total operating expenses	4,104	4,166	3,706
Gains on Sales of Other Assets and Other, net	—	1	1
Operating Income	1,127	856	941
Other Income and Expenses, net	48	86	96
Interest Expense	328	287	279
Income Before Income Taxes	847	655	758
Income Tax Expense	155	101	46
Net Income	\$ 692	\$ 554	\$ 712
Other Comprehensive Income (Loss), net of tax			
Unrealized gains (losses) on available-for-sale securities	1	(1)	3
Other Comprehensive Income (Loss), net of tax	1	(1)	3
Comprehensive Income	\$ 693	\$ 553	\$ 715

See Notes to Consolidated Financial Statements

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Step 13 2021

PART II

DUKE ENERGY FLORIDA, LLC

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2019	2018
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 17	\$ 36
Receivables (net of allowance for doubtful accounts of \$3 at 2019 and 2018)	96	143
Receivables of VIEs (net of allowance for doubtful accounts of \$4 at 2019 and \$3 at 2018)	341	362
Receivables from affiliated companies	—	28
Notes receivable from affiliated companies	173	—
Inventory	489	504
Regulatory assets (includes \$52 at 2019 and 2018 related to VIEs)	419	434
Other (includes \$39 at 2019 and 2018 related to VIEs)	58	46
Total current assets	1,593	1,553
Property, Plant and Equipment		
Cost	20,457	18,792
Accumulated depreciation and amortization	(5,236)	(4,968)
Net property, plant and equipment	15,221	13,824
Other Noncurrent Assets		
Regulatory assets (includes \$989 at 2019 and \$1,041 at 2018 related to VIEs)	2,194	2,454
Nuclear decommissioning trust funds	734	659
Operating lease right-of-use assets, net	401	—
Other	311	311
Total other noncurrent assets	3,640	3,424
Total Assets	\$ 20,454	\$ 18,801
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 474	\$ 511
Accounts payable to affiliated companies	131	91
Notes payable to affiliated companies	—	108
Taxes accrued	43	74
Interest accrued	75	75
Current maturities of long-term debt (includes \$54 at 2019 and \$53 at 2018 related to VIEs)	571	270
Asset retirement obligations	—	5
Regulatory liabilities	94	102
Other	415	406
Total current liabilities	1,803	1,642
Long-Term Debt (includes \$1,307 at 2019 and \$1,336 at 2018 related to VIEs)	7,416	7,051
Other Noncurrent Liabilities		
Deferred income taxes	2,179	1,986
Asset retirement obligations	578	586
Regulatory liabilities	993	1,094
Operating lease liabilities	343	—
Accrued pension and other post-retirement benefit costs	218	254
Other	136	93
Total other noncurrent liabilities	4,447	4,013
Commitments and Contingencies		
Equity		
Member's equity	6,789	6,097
Accumulated other comprehensive loss	(1)	(2)
Total equity	6,788	6,095
Total Liabilities and Equity	\$ 20,454	\$ 18,801

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY FLORIDA, LLC

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2019	2018	2017
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 692	\$ 554	\$ 712
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion	869	793	570
Equity component of AFUDC	(6)	(47)	(45)
Gains on sales of other assets	—	(1)	(1)
Impairment charges	(36)	54	138
Deferred income taxes	180	159	245
Accrued pension and other post-retirement benefit costs	11	5	(13)
Contributions to qualified pension plans	(53)	(20)	—
Payments for asset retirement obligations	(22)	(35)	(56)
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	(33)	7	5
Receivables	26	(100)	(38)
Receivables from affiliated companies	17	(26)	—
Inventory	42	58	66
Other current assets	156	59	(138)
Increase (decrease) in			
Accounts payable	(36)	(1)	(32)
Accounts payable to affiliated companies	40	17	(51)
Taxes accrued	(31)	40	1
Other current liabilities	(36)	82	(37)
Other assets	(135)	(428)	(229)
Other liabilities	(167)	(61)	(82)
Net cash provided by operating activities	1,478	1,109	1,015
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(1,844)	(1,634)	(1,437)
Purchases of debt and equity securities	(669)	(517)	(557)
Proceeds from sales and maturities of debt and equity securities	695	563	617
Notes receivable from affiliated companies	(173)	313	(313)
Other	(67)	(65)	(7)
Net cash used in investing activities	(2,058)	(1,340)	(1,697)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	918	988	1,306
Payments for the redemption of long-term debt	(262)	(769)	(342)
Notes payable to affiliated companies	(108)	108	(297)
Distribution to parent	—	(75)	—
Other	13	1	(1)
Net cash provided by financing activities	561	253	666
Net (decrease) increase in cash, cash equivalents, and restricted cash	(19)	22	(16)
Cash, cash equivalents, and restricted cash at beginning of period	75	53	69
Cash, cash equivalents, and restricted cash at end of period	\$ 56	\$ 75	\$ 53
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 332	\$ 270	\$ 274
Cash paid for (received from) income taxes	1	(120)	(197)
Significant non-cash transactions:			
Accrued capital expenditures	272	258	199

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY FLORIDA, LLC

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Member's Equity	Accumulated Other Comprehensive Income (Loss)	Total Equity
		Net Unrealized Gains (Losses) on Available-for- Sale Securities	
Balance at December 31, 2016	\$ 4,899	\$ 1	\$ 4,900
Net income	712	—	712
Other comprehensive income	—	3	3
Other	3	—	3
Balance at December 31, 2017	\$ 5,614	\$ 4	\$ 5,618
Net income	554	—	554
Other comprehensive loss	—	(1)	(1)
Distribution to parent	(75)	—	(75)
Other ^(a)	4	(5)	(1)
Balance at December 31, 2018	\$ 6,097	\$ (2)	\$ 6,095
Net income	692	—	692
Other comprehensive income	—	1	1
Balance at December 31, 2019	\$ 6,789	\$ (1)	\$ 6,788

(a) Amounts represent a cumulative-effect adjustment due to implementation of a new accounting standard related to Financial Instruments Classification and Measurement. See Note 1 for more information.

See Notes to Consolidated Financial Statements

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PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Ohio, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Ohio, Inc. and subsidiaries (the "Company") as of December 31, 2019 and 2018, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2019, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2019 and 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina

February 20, 2020

We have served as the Company's auditor since 2002.

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PART II

DUKE ENERGY OHIO, INC.

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2019	2018	2017
Operating Revenues			
Regulated electric	\$ 1,456	\$ 1,450	\$ 1,373
Regulated natural gas	484	506	508
Nonregulated electric and other	—	1	42
Total operating revenues	1,940	1,957	1,923
Operating Expenses			
Fuel used in electric generation and purchased power – regulated	388	412	369
Fuel used in electric generation and purchased power – nonregulated	—	—	58
Cost of natural gas	95	113	107
Operation, maintenance and other	520	480	530
Depreciation and amortization	265	268	261
Property and other taxes	308	290	278
Impairment charges	—	—	1
Total operating expenses	1,576	1,563	1,604
(Losses) Gains on Sales of Other Assets and Other, net	—	(106)	1
Operating Income	364	288	320
Other Income and Expenses, net	24	23	23
Interest Expense	109	92	91
Income From Continuing Operations Before Income Taxes	279	219	252
Income Tax Expense From Continuing Operations	40	43	59
Income From Continuing Operations	239	176	193
Loss From Discontinued Operations, net of tax	(1)	—	(1)
Net Income and Comprehensive Income	\$ 238	\$ 176	\$ 192

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY OHIO, INC.

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2019	2018
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 17	\$ 21
Receivables (net of allowance for doubtful accounts of \$4 at 2019 and \$2 at 2018)	84	102
Receivables from affiliated companies	92	114
Inventory	135	126
Regulatory assets	49	33
Other	21	24
Total current assets	398	420
Property, Plant and Equipment		
Cost	10,241	9,360
Accumulated depreciation and amortization	(2,843)	(2,717)
Net property, plant and equipment	7,398	6,643
Other Noncurrent Assets		
Goodwill	920	920
Regulatory assets	549	531
Operating lease right-of-use assets, net	21	—
Other	52	41
Total other noncurrent assets	1,542	1,492
Total Assets	\$ 9,338	\$ 8,555
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 288	\$ 316
Accounts payable to affiliated companies	68	78
Notes payable to affiliated companies	312	274
Taxes accrued	219	202
Interest accrued	30	22
Current maturities of long-term debt	—	551
Asset retirement obligations	1	6
Regulatory liabilities	64	57
Other	75	74
Total current liabilities	1,057	1,580
Long-Term Debt	2,594	1,589
Long-Term Debt Payable to Affiliated Companies	25	25
Other Noncurrent Liabilities		
Deferred income taxes	922	817
Asset retirement obligations	79	87
Regulatory liabilities	763	840
Operating lease liabilities	21	—
Accrued pension and other post-retirement benefit costs	100	79
Other	94	93
Total other noncurrent liabilities	1,979	1,916
Commitments and Contingencies		
Equity		
Common stock, \$8.50 par value, 120 million shares authorized; 90 million shares outstanding at 2019 and 2018	762	762
Additional paid-in capital	2,776	2,776
Retained earnings (Accumulated deficit)	145	(93)
Total equity	3,683	3,445
Total Liabilities and Equity	\$ 9,338	\$ 8,555

See Notes to Consolidated Financial Statements

PART II

DUKE ENERGY OHIO, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2019	2018	2017
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 238	\$ 176	\$ 192
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion	269	271	265
Equity component of AFUDC	(13)	(11)	(11)
Losses (Gains) on sales of other assets	—	106	(1)
Impairment charges	—	—	1
Deferred income taxes	81	25	90
Accrued pension and other post-retirement benefit costs	2	3	2
Contributions to qualified pension plans	(2)	—	(4)
Payments for asset retirement obligations	(8)	(3)	(7)
Provision for rate refunds	7	24	—
(Increase) decrease in			
Receivables	20	(33)	2
Receivables from affiliated companies	22	19	(4)
Inventory	(9)	7	6
Other current assets	(5)	16	(22)
Increase (decrease) in			
Accounts payable	(17)	(19)	12
Accounts payable to affiliated companies	(10)	16	(1)
Taxes accrued	17	12	11
Other current liabilities	1	14	(19)
Other assets	(22)	(26)	(28)
Other liabilities	(45)	(27)	(5)
Net cash provided by operating activities	526	570	479
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(952)	(827)	(686)
Notes receivable from affiliated companies	—	14	80
Other	(68)	(89)	(41)
Net cash used in investing activities	(1,020)	(902)	(647)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	1,003	99	182
Payments for the redemption of long-term debt	(551)	(3)	(2)
Notes payable to affiliated companies	38	245	13
Dividends to parent	—	—	(25)
Other	—	—	(1)
Net cash provided by financing activities	490	341	167
Net (decrease) increase in cash and cash equivalents	(4)	9	(1)
Cash and cash equivalents at beginning of period	21	12	13
Cash and cash equivalents at end of period	\$ 17	\$ 21	\$ 12
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 97	\$ 87	\$ 85
Cash received from income taxes	(37)	(6)	(8)
Significant non-cash transactions:			
Accrued capital expenditures	109	95	82
Non-cash equity contribution from parent	—	106	—

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY OHIO, INC.

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Common Stock	Additional Paid-in Capital	Retained Earnings (Deficit)	Total Equity
Balance at December 31, 2016	\$ 762	\$ 2,695	\$ (461)	\$ 2,996
Net income	—	—	192	192
Dividends to parent	—	(25)	—	(25)
Balance at December 31, 2017	\$ 762	\$ 2,670	\$ (269)	\$ 3,163
Net income	—	—	176	176
Contribution from parent	—	106	—	106
Balance at December 31, 2018	\$ 762	\$ 2,776	\$ (93)	\$ 3,445
Net income	—	—	238	238
Balance at December 31, 2019	\$ 762	\$ 2,776	\$ 145	\$ 3,683

See Notes to Consolidated Financial Statements

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PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of
Directors of Duke Energy Indiana, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Indiana, LLC and subsidiaries (the "Company") as of December 31, 2019 and 2018, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2019, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2019 and 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina
February 20, 2020

We have served as the Company's auditor since 2002.

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PART II

DUKE ENERGY INDIANA, LLC

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2019	2018	2017
Operating Revenues	\$ 3,004	\$ 3,059	\$ 3,047
Operating Expenses			
Fuel used in electric generation and purchased power	935	1,000	966
Operation, maintenance and other	790	788	743
Depreciation and amortization	525	520	458
Property and other taxes	69	78	76
Impairment charges	—	30	18
Total operating expenses	2,319	2,416	2,261
Operating Income	685	643	786
Other Income and Expenses, net	41	45	47
Interest Expense	156	167	178
Income Before Income Taxes	570	521	655
Income Tax Expense	134	128	301
Net Income and Comprehensive Income	\$ 436	\$ 393	\$ 354

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY INDIANA, LLC

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2019	2018
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 25	\$ 24
Receivables (net of allowance for doubtful accounts of \$3 at 2019 and \$2 at 2018)	60	52
Receivables from affiliated companies	79	122
Inventory	517	422
Regulatory assets	90	175
Other	60	35
Total current assets	831	830
Property, Plant and Equipment		
Cost	16,305	15,443
Accumulated depreciation and amortization	(5,233)	(4,914)
Net property, plant and equipment	11,072	10,529
Other Noncurrent Assets		
Regulatory assets	1,082	982
Operating lease right-of-use assets, net	57	—
Other	234	194
Total other noncurrent assets	1,373	1,176
Total Assets	\$ 13,276	\$ 12,535
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 201	\$ 200
Accounts payable to affiliated companies	87	83
Notes payable to affiliated companies	30	167
Taxes accrued	49	43
Interest accrued	58	58
Current maturities of long-term debt	503	63
Asset retirement obligations	189	109
Regulatory liabilities	55	25
Other	112	107
Total current liabilities	1,284	855
Long-Term Debt	3,404	3,569
Long-Term Debt Payable to Affiliated Companies	150	150
Other Noncurrent Liabilities		
Deferred income taxes	1,150	1,009
Asset retirement obligations	643	613
Regulatory liabilities	1,685	1,722
Operating lease liabilities	55	—
Accrued pension and other post-retirement benefit costs	148	115
Investment tax credits	164	147
Other	18	16
Total other noncurrent liabilities	3,863	3,622
Commitments and Contingencies		
Equity		
Member's Equity	4,575	4,339
Total Liabilities and Equity	\$ 13,276	\$ 12,535

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY INDIANA, LLC

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2019	2018	2017
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 436	\$ 393	\$ 354
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization, and accretion	531	524	462
Equity component of AFUDC	(18)	(32)	(28)
Impairment charges	—	30	18
Deferred income taxes	156	95	152
Accrued pension and other post-retirement benefit costs	6	7	2
Contributions to qualified pension plans	(2)	(8)	—
Payments for asset retirement obligations	(48)	(69)	(45)
Provision for rate refunds	—	53	—
(Increase) decrease in			
Receivables	(8)	7	59
Receivables from affiliated companies	41	3	(11)
Inventory	(95)	28	54
Other current assets	76	(25)	28
Increase (decrease) in			
Accounts payable	(10)	37	(86)
Accounts payable to affiliated companies	4	5	4
Taxes accrued	(25)	(52)	64
Other current liabilities	15	14	(10)
Other assets	(71)	29	(28)
Other liabilities	9	(33)	(20)
Net cash provided by operating activities	997	1,006	969
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(876)	(832)	(840)
Purchases of debt and equity securities	(26)	(48)	(20)
Proceeds from sales and maturities of debt and equity securities	20	44	7
Notes receivable from affiliated companies	—	—	86
Other	(49)	18	(65)
Net cash used in investing activities	(931)	(818)	(832)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	485	—	—
Payments for the redemption of long-term debt	(213)	(3)	(5)
Notes payable to affiliated companies	(137)	6	161
Distributions to parent	(200)	(175)	(300)
Other	—	(1)	(1)
Net cash used in financing activities	(65)	(173)	(145)
Net increase (decrease) in cash and cash equivalents	1	15	(8)
Cash and cash equivalents at beginning of period	24	9	17
Cash and cash equivalents at end of period	\$ 25	\$ 24	\$ 9
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 150	\$ 162	\$ 179
Cash (received from) paid for income taxes	(6)	75	117
Significant non-cash transactions:			
Accrued capital expenditures	102	88	125

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY INDIANA, LLC

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Member's Equity
Balance at December 31, 2016	\$ 4,067
Net income	354
Distributions to parent	(300)
Balance at December 31, 2017	\$ 4,121
Net income	393
Distributions to parent	(175)
Balance at December 31, 2018	\$ 4,339
Net income	436
Distributions to parent	(200)
Balance at December 31, 2019	\$ 4,575

See Notes to Consolidated Financial Statements

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PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of Directors of
Piedmont Natural Gas Company, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Piedmont Natural Gas Company, Inc. and subsidiaries (the "Company") as of December 31, 2019 and 2018, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2019, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2019 and 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/Deloitte & Touche LLP

Charlotte, North Carolina

February 20, 2020

We have served as the Company's auditor since 1951.

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PART II

PIEDMONT NATURAL GAS COMPANY, INC.

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2019	2018	2017
Operating Revenues			
Regulated natural gas	\$ 1,369	\$ 1,365	\$ 1,319
Nonregulated natural gas and other	12	10	9
Total operating revenues	1,381	1,375	1,328
Operating Expenses			
Cost of natural gas	532	584	524
Operation, maintenance and other	328	357	304
Depreciation and amortization	172	159	148
Property and other taxes	45	49	48
Impairment charges	—	—	7
Total operating expenses	1,077	1,149	1,031
Operating Income	304	226	297
Equity in earnings (losses) of unconsolidated affiliates	8	7	(6)
Other income and expense, net	20	14	(11)
Total other income and expenses	28	21	(17)
Interest Expense	87	81	79
Income Before Income Taxes	245	166	201
Income Tax Expense	43	37	62
Net Income and Comprehensive Income	\$ 202	\$ 129	\$ 139

See Notes to Consolidated Financial Statements

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PART II

PIEDMONT NATURAL GAS COMPANY, INC.

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2019	2018
ASSETS		
Current Assets		
Receivables (net of allowance for doubtful accounts of \$6 at 2019 and \$2 at 2018)	\$ 241	\$ 266
Receivables from affiliated companies	10	22
Inventory	72	70
Regulatory assets	73	54
Other	28	19
Total current assets	424	431
Property, Plant and Equipment		
Cost	8,446	7,486
Accumulated depreciation and amortization	(1,681)	(1,575)
Net property, plant and equipment	6,765	5,911
Other Noncurrent Assets		
Goodwill	49	49
Regulatory assets	290	303
Operating lease right-of-use assets, net	24	—
Investments in equity method unconsolidated affiliates	83	64
Other	121	52
Total other noncurrent assets	567	468
Total Assets	\$ 7,756	\$ 6,810
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 215	\$ 203
Accounts payable to affiliated companies	3	38
Notes payable to affiliated companies	476	198
Taxes accrued	24	84
Interest accrued	33	31
Current maturities of long-term debt	—	350
Regulatory liabilities	81	37
Other	67	58
Total current liabilities	899	999
Long-Term Debt		
	2,384	1,788
Other Noncurrent Liabilities		
Deferred income taxes	708	551
Asset retirement obligations	17	19
Regulatory liabilities	1,131	1,181
Operating lease liabilities	23	—
Accrued pension and other post-retirement benefit costs	3	4
Other	148	177
Total other noncurrent liabilities	2,030	1,932
Commitments and Contingencies		
Equity		
Common stock, no par value: 100 shares authorized and outstanding at 2019 and 2018	1,310	1,160
Retained earnings	1,133	931
Total equity	2,443	2,091
Total Liabilities and Equity	\$ 7,756	\$ 6,810

See Notes to Consolidated Financial Statements

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PART II

PIEDMONT NATURAL GAS COMPANY, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2019	2018	2017
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 202	\$ 129	\$ 139
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization	174	161	151
Impairment charges	—	—	7
Deferred income taxes	136	(31)	154
Equity in (earnings) losses from unconsolidated affiliates	(8)	(7)	6
Accrued pension and other post-retirement benefit costs	(9)	(4)	23
Contributions to qualified pension plans	(1)	—	(11)
Provision for rate refunds	2	43	—
(Increase) decrease in			
Receivables	28	7	(40)
Receivables from affiliated companies	12	(15)	—
Inventory	(2)	(4)	—
Other current assets	(25)	71	(20)
Increase (decrease) in			
Accounts payable	(7)	15	(13)
Accounts payable to affiliated companies	(35)	25	5
Taxes accrued	(60)	65	(48)
Other current liabilities	1	21	(9)
Other assets	9	6	7
Other liabilities	(8)	(4)	(2)
Net cash provided by operating activities	409	478	349
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(1,053)	(721)	(585)
Contributions to equity method investments	(16)	—	(12)
Other	(14)	(10)	(6)
Net cash used in investing activities	(1,083)	(731)	(603)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	596	100	250
Payments for the redemption of long-term debt	(350)	—	(35)
Notes payable and commercial paper	—	—	(330)
Notes payable to affiliated companies	278	(166)	364
Capital contribution from parent	150	300	—
Other	—	—	(1)
Net cash provided by financing activities	674	234	248
Net decrease in cash and cash equivalents	—	(19)	(6)
Cash and cash equivalents at beginning of period	—	19	25
Cash and cash equivalents at end of period	\$ —	\$ —	\$ 19
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 84	\$ 79	\$ 78
Cash received from income taxes	(31)	(16)	(12)
Significant non-cash transactions:			
Accrued capital expenditures	109	96	34
Transfer of ownership interest of certain equity method investees to parent	—	—	149

See Notes to Consolidated Financial Statements

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PART II

PIEDMONT NATURAL GAS COMPANY, INC.

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Common Stock	Retained Earnings	Total Equity
Balance at December 31, 2016	\$ 860	\$ 812	\$ 1,672
Net income	—	139	139
Transfer of ownership interest of certain equity method investees to parent	—	(149)	(149)
Balance at December 31, 2017	\$ 860	\$ 802	\$ 1,662
Net income	—	129	129
Contribution from parent	300	—	300
Balance at December 31, 2018	\$ 1,160	\$ 931	\$ 2,091
Net income	—	202	202
Contribution from parent	150	—	150
Balance at December 31, 2019	\$ 1,310	\$ 1,133	\$ 2,443

See Notes to Consolidated Financial Statements

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PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements

For the Years Ended December 31, 2019, 2018 and 2017

Index to Combined Notes To Consolidated Financial Statements

The notes to the consolidated financial statements are a combined presentation. The following table indicates the registrants to which the notes apply.

Registrant	Applicable Notes																										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Duke Energy	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Duke Energy Carolinas	•		•	•	•	•	•		•	•	•	•		•	•	•	•	•	•		•	•	•	•	•	•	•
Progress Energy	•		•	•	•	•	•			•	•	•		•	•	•	•	•	•		•	•	•	•	•	•	•
Duke Energy Progress	•		•	•	•	•	•			•	•	•		•	•	•	•	•	•		•	•	•	•	•	•	•
Duke Energy Florida	•		•	•	•	•	•			•	•	•		•	•	•	•	•	•		•	•	•	•	•	•	•
Duke Energy Ohio	•		•	•	•	•	•			•	•	•		•	•		•	•	•		•	•	•	•	•	•	•
Duke Energy Indiana	•		•	•	•	•	•		•	•	•	•		•	•	•	•	•	•		•	•	•	•	•	•	•
Piedmont	•	•	•	•	•	•	•			•	•	•	•	•	•		•		•		•	•	•	•	•	•	•

Tables within the notes may not sum across due to (i) Progress Energy's consolidation of Duke Energy Progress, Duke Energy Florida and other subsidiaries that are not registrants and (ii) subsidiaries that are not registrants but included in the consolidated Duke Energy balances.

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

NATURE OF OPERATIONS AND BASIS OF CONSOLIDATION

Duke Energy is an energy company headquartered in Charlotte, North Carolina, subject to regulation by the FERC and other regulatory agencies listed below. Duke Energy operates in the U.S. primarily through its direct and indirect subsidiaries. Certain Duke Energy subsidiaries are also subsidiary registrants, including Duke Energy Carolinas; Progress Energy; Duke Energy Progress; Duke Energy Florida; Duke Energy Ohio; Duke Energy Indiana and Piedmont. When discussing Duke Energy's consolidated financial information, it necessarily includes the results of its separate Subsidiary Registrants, which along with Duke Energy, are collectively referred to as the Duke Energy Registrants.

The information in these combined notes relates to each of the Duke Energy Registrants as noted in the Index to Combined Notes to Consolidated Financial Statements. However, none of the Subsidiary Registrants make any representation as to information related solely to Duke Energy or the Subsidiary Registrants of Duke Energy other than itself.

These Consolidated Financial Statements include, after eliminating intercompany transactions and balances, the accounts of the Duke Energy Registrants and subsidiaries or VIEs where the respective Duke Energy Registrants have control. See Note 18 for additional information on VIEs. These Consolidated Financial Statements also reflect the Duke Energy Registrants' proportionate share of certain jointly owned generation and transmission facilities. See Note 9 for additional information on joint ownership. Substantially all of the Subsidiary Registrants' operations qualify for regulatory accounting.

Duke Energy Carolinas is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Carolinas is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Progress Energy is a public utility holding company, which conducts operations through its wholly owned subsidiaries, Duke Energy Progress and Duke Energy Florida. Progress Energy is subject to regulation by FERC and other regulatory agencies listed below.

Duke Energy Progress is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Progress is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Duke Energy Florida is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Florida. Duke Energy Florida is subject to the regulatory provisions of the FPSC, NRC and FERC.

Duke Energy Ohio is a regulated public utility primarily engaged in the transmission and distribution of electricity in portions of Ohio and Kentucky, the generation and sale of electricity in portions of Kentucky and the transportation and sale of natural gas in portions of Ohio and Kentucky. Duke Energy Ohio conducts competitive auctions for retail electricity supply in Ohio whereby the energy price is recovered from retail customers and recorded in Operating Revenues on the Consolidated Statements of Operations and Comprehensive Income. Operations in Kentucky are conducted through its wholly owned subsidiary, Duke Energy Kentucky. References herein to Duke Energy Ohio collectively include Duke Energy Ohio and its subsidiaries, unless otherwise noted. Duke Energy Ohio is subject to the regulatory provisions of the PUCO, KPSC and FERC.

Duke Energy Indiana is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Indiana. Duke Energy Indiana is subject to the regulatory provisions of the IURC and FERC.

Piedmont is a regulated public utility primarily engaged in the distribution of natural gas in portions of North Carolina, South Carolina and Tennessee. Piedmont is subject to the regulatory provisions of the NCUC, PSCSC, TPUC and FERC.

Certain prior year amounts have been reclassified to conform to the current year presentation.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Other Current Assets and Liabilities

The following table provides a description of amounts included in Other within Current Assets or Current Liabilities that exceed 5% of total Current Assets or Current Liabilities on the Duke Energy Registrants' Consolidated Balance Sheets at either December 31, 2019, or 2018.

		December 31,	
(in millions)	Location	2019	2018
Duke Energy			
Taxes receivable	Current Assets	\$ 357	\$ 729
Accrued compensation	Current Liabilities	862	793
Duke Energy Carolinas			
Accrued compensation	Current Liabilities	\$ 271	\$ 251
Other accrued liabilities	Current Liabilities	147	55
Progress Energy			
Customer deposits	Current Liabilities	\$ 354	\$ 345
Duke Energy Florida			
Customer deposits	Current Liabilities	\$ 209	\$ 208
Other accrued liabilities	Current Liabilities	89	85
Duke Energy Indiana			
Income taxes receivable	Current Assets	\$ 44	\$ 9
Customer deposits	Current Liabilities	49	47

Discontinued Operations

Duke Energy has elected to present cash flows of discontinued operations combined with cash flows of continuing operations. Unless otherwise noted, the notes to these consolidated financial statements exclude amounts related to discontinued operations for all periods presented. See Note 2 for additional information.

Amounts Attributable to Controlling Interests

For the years ended December 31, 2019, 2018 and 2017, the Income (Loss) From Discontinued Operations, net of tax on Duke Energy's Consolidated Statements of Operations is entirely attributable to controlling interest.

Noncontrolling Interest

Duke Energy maintains a controlling financial interest in certain less-than wholly owned non-regulated subsidiaries. As a result, Duke Energy consolidates these subsidiaries and presents the third-party investors' portion of Duke Energy's net income (loss), net assets and comprehensive income (loss) as noncontrolling interest. Noncontrolling interest is included as a component of equity on the Consolidated Balance Sheet.

Several operating agreements of Duke Energy's subsidiaries with noncontrolling interest are subject to allocations of tax attributes and cash flows in accordance with contractual agreements that vary throughout the lives of the subsidiaries. Therefore, Duke Energy and the other investors' (the owners) interests in the subsidiaries are not fixed, and the subsidiaries apply the HLBV method in allocating income or loss and other comprehensive income or loss (all measured on a pretax basis) to the owners. The HLBV method measures the amounts that each owner would hypothetically claim at each balance sheet reporting date, including tax benefits realized by the owners, upon a hypothetical liquidation of the subsidiary at the net book value of its underlying assets. The change in the amount that each owner would hypothetically receive at the

reporting date compared to the amount it would have received on the previous reporting date represents the amount of income or loss allocated to each owner for the reporting period. During 2019, Duke Energy received \$428 million for the sale of noncontrolling interests to tax equity members subject to the HLBV method for projects totaling 718 MW in nameplate capacity. Duke Energy allocated approximately \$165 million of losses to noncontrolling tax equity members utilizing the HLBV method for the year ended December 31, 2019.

Other operating agreements of Duke Energy's subsidiaries with noncontrolling interest allocate profit and loss based on their pro rata shares of the ownership interest in the respective subsidiary. Therefore, Duke Energy allocates net income or loss and other comprehensive income or loss of these subsidiaries to the owners based on their pro rata shares.

During the third quarter of 2019, Duke Energy completed a sale of minority interest in a portion of certain renewable assets to John Hancock. John Hancock's ownership interest in the assets represents a noncontrolling interest. See Note 2 for additional information on the sale.

SIGNIFICANT ACCOUNTING POLICIES

Use of Estimates

In preparing financial statements that conform to GAAP, the Duke Energy Registrants must make estimates and assumptions that affect the reported amounts of assets and liabilities, the reported amounts of revenues and expenses and the disclosure of contingent assets and liabilities at the date of the financial statements. Actual results could differ from those estimates.

Regulatory Accounting

The majority of the Duke Energy Registrants' operations are subject to price regulation for the sale of electricity and natural gas by state utility commissions or FERC. When prices are set on the basis of specific costs of the regulated operations and an effective franchise is in place such that sufficient natural gas or electric services can be sold to recover those costs, the Duke Energy Registrants apply regulatory accounting. Regulatory accounting changes the timing of the recognition of costs or revenues relative to a company that does not apply regulatory accounting. As a result, regulatory assets and regulatory liabilities are recognized on the Consolidated Balance Sheets. Regulatory assets and liabilities are amortized consistent with the treatment of the related cost in the ratemaking process. See Note 4 for further information.

Regulatory accounting rules also require recognition of a disallowance (also called "impairment") loss if it becomes probable that part of the cost of a plant under construction (or a recently completed plant or an abandoned plant) will be disallowed for ratemaking purposes and a reasonable estimate of the amount of the disallowance can be made. For example, if a cost cap is set for a plant still under construction, the amount of the disallowance is a result of a judgment as to the ultimate cost of the plant. These disallowances can require judgments on allowed future rate recovery.

When it becomes probable that regulated generation, transmission or distribution assets will be abandoned, the cost of the asset is removed from plant in service. The value that may be retained as a regulatory asset on the balance sheet for the abandoned property is dependent upon amounts that may be recovered through regulated rates, including any return. As such, an impairment charge could be partially or fully offset by the establishment of a regulatory asset if rate recovery is probable. The impairment charge for a disallowance of costs for regulated plants under construction, recently completed or abandoned is based on discounted cash flows.

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Combined Notes to Consolidated Financial Statements – (Continued)

The Duke Energy Registrants utilize cost-tracking mechanisms, commonly referred to as fuel adjustment clauses or PGA clauses. These clauses allow for the recovery of fuel and fuel-related costs, portions of purchased power, natural gas costs and hedging costs through surcharges on customer rates. The difference between the costs incurred and the surcharge revenues is recorded either as an adjustment to Operating Revenues, Operating Expenses – Fuel used in electric generation or Operating Expenses – Cost of natural gas on the Consolidated Statements of Operations, with an off-setting impact on regulatory assets or liabilities.

Cash, Cash Equivalents and Restricted Cash

All highly liquid investments with maturities of three months or less at the date of acquisition are considered cash equivalents. Duke Energy, Progress Energy and Duke Energy Florida have restricted cash balances related primarily to collateral assets, escrow deposits and VIEs. See Note 18 for additional information. Restricted cash amounts are included in Other within Current Assets and Other Noncurrent Assets on the Consolidated Balance Sheets. The following table presents the components of cash, cash equivalents and restricted cash included in the Consolidated Balance Sheets.

	December 31, 2019			December 31, 2018		
	Duke Energy	Progress Energy	Duke Energy Florida	Duke Energy	Progress Energy	Duke Energy Florida
Current Assets						
Cash and cash equivalents	\$ 311	\$ 48	\$ 17	\$ 442	\$ 67	\$ 36
Other	222	39	39	141	39	39
Other Noncurrent Assets						
Other	40	39	—	8	6	—
Total cash, cash equivalents and restricted cash	\$ 573	\$ 126	\$ 56	\$ 591	\$ 112	\$ 75

Inventory

Inventory related to regulated operations is valued at historical cost. Inventory related to nonregulated operations is valued at the lower of cost or market. Inventory is charged to expense or capitalized to property, plant and equipment when issued, primarily using the average cost method. Excess or obsolete inventory is written-down to the lower of cost or net realizable value. Once inventory has been written-down, it creates a new cost basis for the inventory that is not subsequently written-up. Provisions for inventory write-offs were not material at December 31, 2019, and 2018, respectively. The components of inventory are presented in the tables below.

	December 31, 2019							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Materials and supplies	\$ 2,297	\$ 768	\$ 1,038	\$ 686	\$ 351	\$ 79	\$ 318	\$ 5
Coal	586	187	186	138	48	15	198	—
Natural gas, oil and other	349	41	199	110	90	41	1	67
Total inventory	\$ 3,232	\$ 996	\$ 1,423	\$ 934	\$ 489	\$ 135	\$ 517	\$ 72

	December 31, 2018							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Materials and supplies	\$ 2,238	\$ 731	\$ 1,049	\$ 734	\$ 315	\$ 84	\$ 312	\$ 2
Coal	491	175	192	106	86	14	109	—
Natural gas, oil and other	355	42	218	114	103	28	1	68
Total inventory	\$ 3,084	\$ 948	\$ 1,459	\$ 954	\$ 504	\$ 126	\$ 422	\$ 70

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Combined Notes to Consolidated Financial Statements – (Continued)

Investments in Debt and Equity Securities

The Duke Energy Registrants classify investments in equity securities as FV-NI and investments in debt securities as AFS. Both categories are recorded at fair value on the Consolidated Balance Sheets. Realized and unrealized gains and losses on securities classified as FV-NI are reported through net income. Unrealized gains and losses for debt securities classified as AFS are included in AOCI until realized, except OTTI that are included in earnings immediately. At the time gains and losses for debt securities are realized, they are reported through net income. For certain investments of regulated operations, such as substantially all of the NDTF, realized and unrealized gains and losses (including any OTTI) on debt securities are recorded as a regulatory asset or liability. The credit loss portion of debt securities of nonregulated operations are included in earnings. Investments in debt and equity securities are classified as either current or noncurrent based on management's intent and ability to sell these securities, taking into consideration current market liquidity. See Note 16 for further information.

Goodwill

Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont perform annual goodwill impairment tests as of August 31 each year at the reporting unit level, which is determined to be a business segment or one level below. Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont update these tests between annual tests if events or circumstances occur that would more likely than not reduce the fair value of a reporting unit below its carrying value. See Note 12 for further information.

Intangible Assets

Intangible assets are included in Other in Other Noncurrent Assets on the Consolidated Balance Sheets. Generally, intangible assets are amortized using an amortization method that reflects the pattern in which the economic benefits of the intangible asset are consumed or on a straight-line basis if that pattern is not readily determinable. Amortization of intangibles is reflected in Depreciation and amortization on the Consolidated Statements of Operations. Intangible assets are subject to impairment testing and if impaired, the carrying value is accordingly reduced.

Emission allowances permit the holder of the allowance to emit certain gaseous byproducts of fossil fuel combustion, including SO₂ and NO_x. Allowances are issued by the EPA at zero cost and may also be bought and sold via third-party transactions. Allowances allocated to or acquired by the Duke Energy Registrants are held primarily for consumption. Carrying amounts for emission allowances are based on the cost to acquire the allowances. Emission allowances are expensed to Fuel used in electric generation and purchased power on the Consolidated Statements of Operations.

RECs are used to measure compliance with renewable energy standards and are held primarily for consumption. See Note 12 for further information.

Long-Lived Asset Impairments

The Duke Energy Registrants evaluate long-lived assets, excluding goodwill, for impairment when circumstances indicate the carrying value of those assets may not be recoverable. An impairment exists when a long-lived asset's carrying value exceeds the estimated undiscounted cash flows expected to result from the use and eventual disposition of the asset. The estimated cash flows may be based on alternative expected outcomes that are probability

weighted. If the carrying value of the long-lived asset is not recoverable based on these estimated future undiscounted cash flows, the carrying value of the asset is written-down to its then-current estimated fair value and an impairment charge is recognized.

The Duke Energy Registrants assess fair value of long-lived assets using various methods, including recent comparable third-party sales, internally developed discounted cash flow analysis and analysis from outside advisors. Triggering events to reassess cash flows may include, but are not limited to, significant changes in commodity prices, the condition of an asset or management's interest in selling the asset.

Equity Method Investment Impairments

Investments in affiliates that are not controlled by Duke Energy, but over which it has significant influence, are accounted for using the equity method. Equity method investments are assessed for impairment whenever events or changes in circumstances indicate that the carrying amount of the investment may not be recoverable. If the decline in value is considered to be other than temporary, the investment is written down to its estimated fair value, which establishes a new cost basis in the investment.

Impairment assessments use a discounted cash flow income approach and include consideration of the severity and duration of any decline in the fair value of the investments. The estimated cash flows may be based on alternative expected outcomes that are probability weighted. Key inputs that involve estimates and significant management judgment include cash flow projections, selection of a discount rate, probability weighting of potential outcomes, and whether any decline in value is considered temporary.

Property, Plant and Equipment

Property, plant and equipment are stated at the lower of depreciated historical cost net of any disallowances or fair value, if impaired. The Duke Energy Registrants capitalize all construction-related direct labor and material costs, as well as indirect construction costs such as general engineering, taxes and financing costs. See "Allowance for Funds Used During Construction and Interest Capitalized" for information on capitalized financing costs. Costs of renewals and betterments that extend the useful life of property, plant and equipment are also capitalized. The cost of repairs, replacements and major maintenance projects, which do not extend the useful life or increase the expected output of the asset, are expensed as incurred. Depreciation is generally computed over the estimated useful life of the asset using the composite straight-line method. Depreciation studies are conducted periodically to update composite rates and are approved by state utility commissions and/or the FERC when required. The composite weighted average depreciation rates, excluding nuclear fuel, are included in the table that follows.

	Years Ended December 31,		
	2019	2018	2017
Duke Energy	3.1%	3.0%	2.8%
Duke Energy Carolinas	2.8%	2.8%	2.8%
Progress Energy	3.1%	2.9%	2.6%
Duke Energy Progress	3.1%	2.9%	2.6%
Duke Energy Florida	3.1%	3.0%	2.8%
Duke Energy Ohio	2.6%	2.8%	2.8%
Duke Energy Indiana	3.3%	3.3%	3.0%
Piedmont	2.4%	2.5%	2.3%

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Combined Notes to Consolidated Financial Statements – (Continued)

In general, when the Duke Energy Registrants retire regulated property, plant and equipment, the original cost plus the cost of retirement, less salvage value and any depreciation already recognized, is charged to accumulated depreciation. However, when it becomes probable the asset will be retired substantially in advance of its original expected useful life or is abandoned, the cost of the asset and the corresponding accumulated depreciation is recognized as a separate asset. If the asset is still in operation, the net amount is classified as Generation facilities to be retired, net on the Consolidated Balance Sheets. If the asset is no longer operating, the net amount is classified in Regulatory assets on the Consolidated Balance Sheets if deemed recoverable (see discussion of long-lived asset impairments above). The carrying value of the asset is based on historical cost if the Duke Energy Registrants are allowed to recover the remaining net book value and a return equal to at least the incremental borrowing rate. If not, an impairment is recognized to the extent the net book value of the asset exceeds the present value of future revenues discounted at the incremental borrowing rate.

When the Duke Energy Registrants sell entire regulated operating units, or retire or sell nonregulated properties, the original cost and accumulated depreciation and amortization balances are removed from Property, Plant and Equipment on the Consolidated Balance Sheets. Any gain or loss is recorded in earnings, unless otherwise required by the applicable regulatory body. See Note 11 for additional information.

Nuclear Fuel

Nuclear fuel is classified as Property, Plant and Equipment on the Consolidated Balance Sheets.

Nuclear fuel in the front-end fuel processing phase is considered work in progress and not amortized until placed in service. Amortization of nuclear fuel is included within Fuel used in electric generation and purchased power on the Consolidated Statements of Operations. Amortization is recorded using the units-of-production method.

Allowance for Funds Used During Construction and Interest Capitalized

For regulated operations, the debt and equity costs of financing the construction of property, plant and equipment are reflected as AFUDC and capitalized as a component of the cost of property, plant and equipment. AFUDC equity is reported on the Consolidated Statements of Operations as non-cash income in Other income and expenses, net. AFUDC debt is reported as a non-cash offset to Interest Expense. After construction is completed, the Duke Energy Registrants are permitted to recover these costs through their inclusion in rate base and the corresponding subsequent depreciation or amortization of those regulated assets.

AFUDC equity, a permanent difference for income taxes, reduces the ETR when capitalized and increases the ETR when depreciated or amortized. See Note 24 for additional information.

For nonregulated operations, interest is capitalized during the construction phase with an offsetting non-cash credit to Interest Expense on the Consolidated Statements of Operations.

Asset Retirement Obligations

AROs are recognized for legal obligations associated with the retirement of property, plant and equipment. Substantially all AROs are related to regulated operations. When recording an ARO, the present value of the projected liability is recognized in the period in which it is incurred, if a reasonable estimate of fair value can be made. The liability is accreted over time. For operating plants, the present value of the liability is added to the cost of the associated asset and

depreciated over the remaining life of the asset. For retired plants, the present value of the liability is recorded as a regulatory asset unless determined not to be probable of recovery.

The present value of the initial obligation and subsequent updates are based on discounted cash flows, which include estimates regarding timing of future cash flows, selection of discount rates and cost escalation rates, among other factors. These estimates are subject to change. Depreciation expense is adjusted prospectively for any changes to the carrying amount of the associated asset. The Duke Energy Registrants receive amounts to fund the cost of the ARO for regulated operations through a combination of regulated revenues and earnings on the NDTF. As a result, amounts recovered in regulated revenues, earnings on the NDTF, accretion expense and depreciation of the associated asset are netted and deferred as a regulatory asset or liability.

Obligations for nuclear decommissioning are based on site-specific cost studies. Duke Energy Carolinas and Duke Energy Progress assume prompt dismantlement of the nuclear facilities after operations are ceased. In 2019, Duke Energy Florida entered into an agreement for the accelerated decommissioning of Crystal River Unit 3. See Note 4 for more information. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida also assume that spent fuel will be stored on-site until such time that it can be transferred to a yet to be built DOE facility.

Obligations for closure of ash basins are based upon discounted cash flows of estimated costs for site-specific plans, if known, or probability weightings of the potential closure methods if the closure plans are under development and multiple closure options are being considered and evaluated on a site-by-site basis. See Note 10 for additional information.

Revenue Recognition

Duke Energy recognizes revenue as customers obtain control of promised goods and services in an amount that reflects consideration expected in exchange for those goods or services. Generally, the delivery of electricity and natural gas results in the transfer of control to customers at the time the commodity is delivered and the amount of revenue recognized is equal to the amount billed to each customer, including estimated volumes delivered when billings have not yet occurred. See Note 19 for further information.

Derivatives and Hedging

Derivative and non-derivative instruments may be used in connection with commodity price and interest rate activities, including swaps, futures, forwards and options. All derivative instruments, except those that qualify for the NPNS exception, are recorded on the Consolidated Balance Sheets at fair value. Qualifying derivative instruments may be designated as either cash flow hedges or fair value hedges. Other derivative instruments (undesignated contracts) either have not been designated or do not qualify as hedges. The effective portion of the change in the fair value of cash flow hedges is recorded in AOCI. The effective portion of the change in the fair value of a fair value hedge is offset in net income by changes in the hedged item. For activity subject to regulatory accounting, gains and losses on derivative contracts are reflected as regulatory assets or liabilities and not as other comprehensive income or current period income. As a result, changes in fair value of these derivatives have no immediate earnings impact.

Formal documentation, including transaction type and risk management strategy, is maintained for all contracts accounted for as a hedge. At inception and at least every three months thereafter, the hedge contract is assessed to see if it is highly effective in offsetting changes in cash flows or fair values of hedged items.

See Note 15 for further information.

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Combined Notes to Consolidated Financial Statements – (Continued)

Captive Insurance Reserves

Duke Energy has captive insurance subsidiaries that provide coverage, on an indemnity basis, to the Subsidiary Registrants as well as certain third parties, on a limited basis, for financial losses, primarily related to property, workers' compensation and general liability. Liabilities include provisions for estimated losses incurred but not reported (IBNR), as well as estimated provisions for known claims. IBNR reserve estimates are primarily based upon historical loss experience, industry data and other actuarial assumptions. Reserve estimates are adjusted in future periods as actual losses differ from experience.

Duke Energy, through its captive insurance entities, also has reinsurance coverage with third parties for certain losses above a per occurrence and/or aggregate retention. Receivables for reinsurance coverage are recognized when realization is deemed probable.

Unamortized Debt Premium, Discount and Expense

Premiums, discounts and expenses incurred with the issuance of outstanding long-term debt are amortized over the term of the debt issue. The gain or loss on extinguishment associated with refinancing higher-cost debt obligations in the regulated operations is amortized over the remaining life of the original instrument. Amortization expense is recorded as Interest Expense in the Consolidated Statements of Operations and is reflected as Depreciation, amortization and accretion within Net cash provided by operating activities on the Consolidated Statements of Cash Flows.

Premiums, discounts and expenses are presented as an adjustment to the carrying value of the debt amount and included in Long-Term Debt on the Consolidated Balance Sheets presented.

Preferred Stock

Preferred stock is reviewed to determine the appropriate balance sheet classification and embedded features, such as call options, are evaluated to determine if they should be bifurcated and accounted for separately. Costs directly related to the issuance of preferred stock is recorded as a reduction of the proceeds received. The liability for the dividend is recognized when declared. The accumulated dividends on the cumulative preferred stock is recognized to net income available to Duke Energy Corporation in the EPS calculation. See Note 20 for further information.

Loss Contingencies and Environmental Liabilities

Contingent losses are recorded when it is probable a loss has occurred and can be reasonably estimated. When a range of the probable loss exists and no amount within the range is a better estimate than any other amount, the minimum amount in the range is recorded. Unless otherwise required by GAAP, legal fees are expensed as incurred.

Environmental liabilities are recorded on an undiscounted basis when environmental remediation or other liabilities become probable and can be reasonably estimated. Environmental expenditures related to past operations that do not generate current or future revenues are expensed. Environmental expenditures related to operations that generate current or future revenues are expensed or capitalized, as appropriate. Certain environmental expenditures receive regulatory accounting treatment and are recorded as regulatory assets.

See Notes 4 and 5 for further information.

Pension and Other Post-Retirement Benefit Plans

Duke Energy maintains qualified, non-qualified and other post-retirement benefit plans. Eligible employees of the Subsidiary Registrants participate in the respective qualified, non-qualified and other post-retirement benefit plans and the Subsidiary Registrants are allocated their proportionate share of benefit costs. See Note 23 for further information, including significant accounting policies associated with these plans.

Severance and Special Termination Benefits

Duke Energy has severance plans under which in general, the longer a terminated employee worked prior to termination the greater the amount of severance benefits. A liability for involuntary severance is recorded once an involuntary severance plan is committed to by management if involuntary severances are probable and can be reasonably estimated. For involuntary severance benefits incremental to its ongoing severance plan benefits, the fair value of the obligation is expensed at the communication date if there are no future service requirements or over the required future service period. Duke Energy also offers special termination benefits under voluntary severance programs. Special termination benefits are recorded immediately upon employee acceptance absent a significant retention period. Otherwise, the cost is recorded over the remaining service period. Employee acceptance of voluntary severance benefits is determined by management based on the facts and circumstances of the benefits being offered. See Note 21 for further information.

Guarantees

If necessary, liabilities are recognized at the time of issuance or material modification of a guarantee for the estimated fair value of the obligation it assumes. Fair value is estimated using a probability-weighted approach. The obligation is reduced over the term of the guarantee or related contract in a systematic and rational method as risk is reduced. Any additional contingent loss for guarantee contracts subsequent to the initial recognition of a liability is accounted for and recognized at the time a loss is probable and can be reasonably estimated. See Note 8 for further information.

Stock-Based Compensation

Stock-based compensation represents costs related to stock-based awards granted to employees and Board of Directors members. Duke Energy recognizes stock-based compensation based upon the estimated fair value of awards, net of estimated forfeitures at the date of issuance. The recognition period for these costs begins at either the applicable service inception date or grant date and continues throughout the requisite service period. Compensation cost is recognized as expense or capitalized as a component of property, plant and equipment. See Note 22 for further information.

Income Taxes

Duke Energy and its subsidiaries file a consolidated federal income tax return and other state and foreign jurisdictional returns. The Subsidiary Registrants are parties to a tax-sharing agreement with Duke Energy. Income taxes recorded represent amounts the Subsidiary Registrants would incur as separate C-Corporations. Deferred income taxes have been provided for temporary differences between GAAP and tax bases of assets and liabilities because the differences create taxable or tax-deductible amounts for future periods. ITCs associated with regulated operations are deferred and amortized as a reduction of income tax expense over the estimated useful lives of the related properties.

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Combined Notes to Consolidated Financial Statements – (Continued)

Accumulated deferred income taxes are valued using the enacted tax rate expected to apply to taxable income in the periods in which the deferred tax asset or liability is expected to be settled or realized. In the event of a change in tax rates, deferred tax assets and liabilities are remeasured as of the enactment date of the new rate. To the extent that the change in the value of the deferred tax represents an obligation to customers, the impact of the remeasurement is deferred to a regulatory liability. Remaining impacts are recorded in income from continuing operations. If Duke Energy's estimate of the tax effect of reversing temporary differences is not reflective of actual outcomes, is modified to reflect new developments or interpretations of the tax law, revised to incorporate new accounting principles, or changes in the expected timing or manner of the reversal then Duke Energy's results of operations could be impacted.

Tax-related interest and penalties are recorded in Interest Expense and Other Income and Expenses, net in the Consolidated Statements of Operations. See Note 24 for further information.

Accounting for Renewable Energy Tax Credits

When Duke Energy receives ITCs on wind or solar facilities, it reduces the basis of the property recorded on the Consolidated Balance Sheets by the amount of the ITC and, therefore, the ITC benefit is ultimately recognized in the statement of operations through reduced depreciation expense. Additionally, certain tax credits and government grants result in an initial tax depreciable base in excess of the book carrying value by an amount equal to one half of the ITC. Deferred tax benefits are recorded as a reduction to income tax expense in the period that the basis difference is created.

Duke Energy receives PTCs on wind facilities that are recognized as electricity is produced.

Excise Taxes

Certain excise taxes levied by state or local governments are required to be paid even if not collected from the customer. These taxes are recognized on a gross basis. Taxes for which Duke operates merely as a collection agent for the state and local government are accounted for on a net basis. Excise taxes accounted for on a gross basis within both Operating Revenues and Property and other taxes in the Consolidated Statements of Operations were as follows.

(in millions)	Years Ended December 31,		
	2019	2018	2017
Duke Energy	\$ 421	\$ 405	\$ 376
Duke Energy Carolinas	39	35	36
Progress Energy	256	241	220
Duke Energy Progress	21	19	19
Duke Energy Florida	235	222	201
Duke Energy Ohio	101	105	98
Duke Energy Indiana	23	22	20
Piedmont	2	2	2

Dividend Restrictions and Unappropriated Retained Earnings

Duke Energy does not have any legal, regulatory or other restrictions on paying common stock dividends to shareholders. However, as further described in Note 4, Duke Energy Carolinas, Duke Energy Progress, Duke Energy Ohio, Duke Energy Indiana and Piedmont have restrictions on paying dividends or otherwise advancing funds to Duke Energy due to conditions established by regulators in conjunction with merger transaction approvals. At December 31, 2019, and 2018, an insignificant amount of Duke Energy's consolidated Retained earnings balance represents undistributed earnings of equity method investments.

NEW ACCOUNTING STANDARDS

Except as noted below, the new accounting standards adopted for 2019, 2018 and 2017 had no material impact on the presentation or results of operations, cash flows or financial position of the Duke Energy Registrants.

Leases. In February 2016, the FASB issued revised accounting guidance for leases. The core principle of this guidance is that a lessee should recognize the assets and liabilities that arise from leases on the balance sheet. This resulted in a material impact on the presentation for the statement of financial position of the Duke Energy Registrants for the period ended December 31, 2019, and an immaterial impact to the Duke Energy Registrants' results of operations and cash flows for the year ended December 31, 2019.

Duke Energy elected the modified retrospective method of adoption effective January 1, 2019. Under the modified retrospective method of adoption, prior year reported results are not restated. For adoption, Duke Energy elected to apply the following practical expedients:

Practical Expedient	Description
Package of transition practical expedients (for leases commenced prior to adoption date and must be adopted as a package)	Do not need to 1) reassess whether any expired or existing contracts are/or contain leases, 2) reassess the lease classification for any expired or existing leases and 3) reassess initial direct costs for any existing leases.
Short-term lease expedient (elect by class of underlying asset)	Elect as an accounting policy to not apply the recognition requirements to short-term leases by asset class.
Lease and non-lease components (elect by class of underlying asset)	Elect as an accounting policy to not separate non-lease components from lease components and instead account for each lease and associated non-lease component as a single lease component by asset class.
Hindsight expedient (when determining lease term)	Elect to use hindsight to determine the lease term.
Existing and expired land easements not previously accounted for as leases	Elect to not evaluate existing or expired easements under the new guidance and carry forward current accounting treatment.
Comparative reporting requirements for initial adoption	Elect to apply transition requirements at adoption date, recognize cumulative effect adjustment to retained earnings in period of adoption and not apply the new requirements to comparative periods, including disclosures.
Lessor expedient (elect by class of underlying asset)	Elect as an accounting policy to aggregate non-lease components with the related lease component when specified conditions are met by asset class. Account for the combined component based on its predominant characteristic (revenue or operating lease).

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Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy evaluated the financial statement impact of adopting the standard and monitored industry implementation issues. Under agreements considered leases, where Duke Energy is the lessee, for the use of certain aircraft, space on communication towers, industrial equipment, fleet vehicles, fuel transportation (barges and railcars), land, office space and PPAs are now recognized on the balance sheet. The Duke Energy Registrants did not have a material change to the financial statements from the adoption of the new standard for contracts where it is the lessor. See Note 6 for further information.

The following new accounting standard has been issued but not yet adopted by the Duke Energy Registrants as of December 31, 2019.

Credit Losses. In June 2016, the FASB issued new accounting guidance for credit losses. This guidance establishes a new impairment model applicable to certain financial assets, including trade and other receivables,

net investments in leases, and debt securities classified as held-for-sale investments. The model also applies to financial guarantees.

For Duke Energy, the guidance is effective for interim and annual periods beginning January 1, 2020. This guidance will be applied using a modified retrospective approach. Under the modified retrospective approach of adoption, prior year reported results are not restated and a cumulative-effect adjustment is recorded to retained earnings at January 1, 2020.

Upon adoption, Duke Energy will recognize an allowance for credit losses based on management's estimate of losses expected to be incurred over the lives of certain assets or guarantees. Duke Energy expects the impacts of this standard to be driven by the reserve for credit losses on financial guarantees, trade and other receivables, and insurance receivables. Duke Energy does not intend to adopt any practical expedients.

Duke Energy currently expects to record a reserve for credit losses as shown in approximate amounts in the table below:

	December 31, 2019					
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Piedmont
(in millions)						
Total pretax impact to Retained Earnings	\$ 120	\$ 16	\$ 2	\$ 1	\$ 1	\$ 1

In addition to the reserve for credit losses, Duke Energy expects additional disclosures on management's evaluation of credit risks inherent in financial assets and how management monitors credit quality, changes in expected credit losses, and the appropriateness of the allowance for credit losses on a forward-looking basis. Duke Energy also expects additional disclosures around credit losses for new investments in leases, loan commitments, and other financial instruments.

2. ACQUISITIONS AND DISPOSITIONS

ACQUISITIONS

The Duke Energy Registrants consolidate assets and liabilities from acquisitions as of the purchase date and include earnings from acquisitions in consolidated earnings after the purchase date.

2016 Acquisition of Piedmont Natural Gas

On October 3, 2016, Duke Energy acquired all outstanding common stock of Piedmont for a total cash purchase price of \$5 billion and assumed Piedmont's existing long-term debt, which had a fair value of approximately \$2 billion at the time of the acquisition. The acquisition provides a foundation for Duke Energy to establish a broader, long-term strategic natural gas infrastructure platform to complement its existing natural gas pipeline investments and regulated natural gas business in the Midwest. In connection with the closing of the acquisition, Piedmont became a wholly owned subsidiary of Duke Energy.

Accounting Charges Related to the Acquisition

Duke Energy incurred pretax transaction and integration costs associated with the acquisition of \$84 million and \$103 million for the years ended December 31, 2018, and 2017, respectively. Amounts recorded on the Consolidated Statements of Operations in 2018 and 2017 were primarily system integration costs of \$78 million and \$71 million, respectively, related to

combining the various operational and financial systems of Duke Energy and Piedmont, including a one-time software impairment resulting from planned accounting system and process integration in 2017. A \$7 million charge was recorded within Impairment Charges, with the remaining \$64 million recorded within Operation, maintenance and other in 2017.

The majority of transition and integration activities were completed by the end of 2018.

DISPOSITIONS

On April 24, 2019, Duke Energy executed an agreement to sell a minority interest in a portion of certain renewable assets within the Commercial Renewables segment. The sale closed on September 6, 2019, and resulted in pretax proceeds to Duke Energy of \$415 million. The portion of Duke Energy's commercial renewables energy portfolio sold includes 49% of 37 operating wind, solar and battery storage assets and 33% of 11 operating solar assets across the U.S. Duke Energy retained control of these assets, and, therefore, no gain or loss was recognized on the Consolidated Statements of Operations. The difference between the consideration received and the carrying value of the noncontrolling interest claim on net assets is \$466 million, net of a tax benefit of \$8 million, and was recorded in equity.

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Combined Notes to Consolidated Financial Statements – (Continued)

3. BUSINESS SEGMENTS

Reportable segments are determined based on information used by the chief operating decision-maker in deciding how to allocate resources and evaluate the performance of the business. Duke Energy evaluates segment performance based on segment income. Segment income is defined as income from continuing operations net of income attributable to noncontrolling interests. Segment income, as discussed below, includes intercompany revenues and expenses that are eliminated on the Consolidated Financial Statements. Certain governance costs are allocated to each segment. In addition, direct interest expense and income taxes are included in segment income.

Products and services are sold between affiliate companies and reportable segments of Duke Energy at cost. Segment assets as presented in the tables that follow exclude all intercompany assets.

Duke Energy

Duke Energy's segment structure includes the following segments: Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables.

The Electric Utilities and Infrastructure segment includes Duke Energy's regulated electric utilities in the Carolinas, Florida and the Midwest.

The regulated electric utilities conduct operations through the Subsidiary Registrants that are substantially all regulated and, accordingly, qualify for regulatory accounting treatment. Electric Utilities and Infrastructure also includes Duke Energy's electric transmission infrastructure investments.

The Gas Utilities and Infrastructure segment includes Piedmont, Duke Energy's natural gas local distribution companies in Ohio and Kentucky, and Duke Energy's natural gas storage and midstream pipeline investments. Gas Utilities and Infrastructure's operations are substantially all regulated and, accordingly, qualify for regulatory accounting treatment.

The Commercial Renewables segment is primarily comprised of nonregulated utility-scale wind and solar generation assets located throughout the U.S. On April 24, 2019, Duke Energy executed an agreement to sell a minority interest in a portion of certain renewable assets. See Note 2 for additional information on the minority interest sale.

The remainder of Duke Energy's operations is presented as Other, which is primarily comprised of interest expense on holding company debt, unallocated corporate costs and Duke Energy's wholly owned captive insurance company, Bison. Other also includes Duke Energy's interest in NMC. See Note 13 for additional information on the investment in NMC.

Business segment information is presented in the following tables. Segment assets presented exclude intercompany assets.

(in millions)	Year Ended December 31, 2019						Total
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total Reportable Segments	Other	Eliminations	
Unaffiliated Revenues	\$ 22,798	\$ 1,770	\$ 487	\$ 25,055	\$ 24	\$ —	\$ 25,079
Intersegment Revenues	33	96	—	129	71	(200)	—
Total Revenues	\$ 22,831	\$ 1,866	\$ 487	\$ 25,184	\$ 95	\$ (200)	\$ 25,079
Interest Expense	\$ 1,345	\$ 117	\$ 95	\$ 1,557	\$ 705	\$ (58)	\$ 2,204
Depreciation and amortization	3,951	256	168	4,375	178	(5)	4,548
Equity in earnings (losses) of unconsolidated affiliates	9	114	(4)	119	43	—	162
Income tax expense (benefit)	785	22	(115)	692	(173)	—	519
Segment income (loss) ^{(a)(b)}	3,536	432	198	4,166	(452)	—	3,714
Add back noncontrolling interest ^(c)							(177)
Add back preferred stock dividend							41
Loss from discontinued operations, net of tax							(7)
Net income							\$ 3,571
Capital investments expenditures and acquisitions	\$ 8,263	\$ 1,539	\$ 1,423	\$ 11,225	\$ 221	\$ —	\$ 11,446
Segment assets	135,561	13,921	6,020	155,502	3,148	188	158,838

(a) Electric Utilities and Infrastructure includes a \$27 million reduction of a prior year impairment at Citrus County CC related to the plant's cost cap. See Note 4 for additional information.

(b) Gas Utilities and Infrastructure includes an after-tax impairment charge of \$19 million for the remaining investment in Constitution. See Note 13 for additional information.

(c) Includes the allocation of losses to noncontrolling tax equity members. See Note 1 for additional information.

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Year Ended December 31, 2018						Total
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total Reportable Segments	Other	Eliminations	
Unaffiliated Revenues	\$ 22,242	\$ 1,783	\$ 477	\$ 24,502	\$ 19	\$ —	\$ 24,521
Intersegment Revenues	31	98	—	129	70	(199)	—
Total Revenues	\$ 22,273	\$ 1,881	\$ 477	\$ 24,631	\$ 89	\$ (199)	\$ 24,521
Interest Expense	\$ 1,288	\$ 106	\$ 88	\$ 1,482	\$ 657	\$ (45)	\$ 2,094
Depreciation and amortization	3,523	245	155	3,923	152	(1)	4,074
Equity in earnings (losses) of unconsolidated affiliates	5	27	(1)	31	52	—	83
Income tax expense (benefit) ^(a)	799	78	(147)	730	(282)	—	448
Segment income (loss) ^{(b)(c)(d)(e)}	3,058	274	9	3,341	(694)	—	2,647
Add back noncontrolling interest component							(22)
Loss from discontinued operations, net of tax							19
Net income							\$ 2,644
Capital investments expenditures and acquisitions	\$ 8,086	\$ 1,133	\$ 193	\$ 9,412	\$ 256	\$ —	\$ 9,668
Segment assets	125,364	12,361	4,204	141,929	3,275	188	145,392

- (a) All segments include adjustments to the December 31, 2017, estimate of the income tax effects of the Tax Act. Electric Utilities and Infrastructure includes a \$24 million expense, Gas Utilities and Infrastructure includes a \$1 million expense, Commercial Renewables includes a \$3 million benefit and Other includes a \$2 million benefit. See Note 24 for additional information.
- (b) Electric Utilities and Infrastructure includes after-tax regulatory and legislative impairment charges of \$202 million related to rate case orders, settlements or other actions of regulators or legislative bodies and an after-tax impairment charge of \$46 million related to the Citrus County CC at Duke Energy Florida. See Note 4 for additional information.
- (c) Gas Utilities and Infrastructure includes an after-tax impairment charge of \$42 million for the investment in Constitution. See Note 13 for additional information.
- (d) Commercial Renewables includes an impairment charge of \$91 million, net of \$2 million Noncontrolling interests, related to goodwill. See Note 12 for additional information.
- (e) Other includes \$65 million of after-tax costs to achieve the Piedmont merger, \$144 million of after-tax severance charges related to a companywide initiative and an \$82 million after-tax loss on the sale of Beckjord described below. For additional information, see Note 2 for the Piedmont Merger and Note 21 for severance charges.

In February 2018, Duke Energy sold Beckjord, a nonregulated facility retired during 2014, and recorded a pretax loss of \$106 million within (Losses) Gains on Sales of Other Assets and Other, net and \$1 million within Operation, maintenance and other on Duke Energy's Consolidated Statements of Operations for the year ended December 31, 2018. The sale included the transfer of coal ash basins and other real property and indemnification from any and all potential future claims related to the property, whether arising under environmental laws or otherwise.

(in millions)	Year Ended December 31, 2017						Total
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total Reportable Segments	Other	Eliminations	
Unaffiliated Revenues	\$ 21,300	\$ 1,743	\$ 460	\$ 23,503	\$ 62	\$ —	\$ 23,565
Intersegment Revenues	31	93	—	124	76	(200)	—
Total Revenues	\$ 21,331	\$ 1,836	\$ 460	\$ 23,627	\$ 138	\$ (200)	\$ 23,565
Interest Expense	\$ 1,240	\$ 105	\$ 87	\$ 1,432	\$ 574	\$ (20)	\$ 1,986
Depreciation and amortization	3,010	231	155	3,396	131	—	3,527
Equity in earnings (losses) of unconsolidated affiliates	5	62	(5)	62	57	—	119
Income tax expense (benefit) ^(a)	1,355	116	(628)	843	353	—	1,196
Segment income (loss) ^{(b)(c)(d)}	3,210	319	441	3,970	(905)	—	3,065
Add back noncontrolling interest component							5
Loss from discontinued operations, net of tax							(6)
Net income							\$ 3,064
Capital investments expenditures and acquisitions	\$ 7,024	\$ 907	\$ 92	\$ 8,023	\$ 175	\$ —	\$ 8,198
Segment assets	119,423	11,462	4,156	135,041	2,685	188	137,914

- (a) All segments include impacts of the Tax Act. Electric Utilities and Infrastructure includes a \$231 million benefit, Gas Utilities and Infrastructure includes a \$26 million benefit, Commercial Renewables includes a \$442 million benefit and Other includes charges of \$597 million.
- (b) Electric Utilities and Infrastructure includes after-tax regulatory settlement charges of \$98 million.
- (c) Commercial Renewables includes after-tax impairment charges of \$74 million related to certain wind projects and the Energy Management Solutions reporting unit. See Notes 11 and 12 for additional information.
- (d) Other includes \$64 million of after-tax costs to achieve the Piedmont merger. See Note 2 for additional information.

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Combined Notes to Consolidated Financial Statements – (Continued)

Geographical Information

Substantially all assets and revenues from continuing operations are within the U.S.

Major Customers

For the year ended December 31, 2019, revenues from one customer of Duke Energy Progress are \$635 million. Duke Energy Progress has one reportable segment, Electric Utilities and Infrastructure. No other Subsidiary Registrant has an individual customer representing more than 10% of its revenues.

Products and Services

The following table summarizes revenues of the reportable segments by type.

(in millions)	Retail Electric	Wholesale Electric	Retail Natural Gas	Other	Total Revenues
2019					
Electric Utilities and Infrastructure	\$ 19,745	\$ 2,231	\$ —	\$ 855	\$ 22,831
Gas Utilities and Infrastructure	—	—	1,782	84	1,866
Commercial Renewables	—	389	—	98	487
Total Reportable Segments	\$ 19,745	\$ 2,620	\$ 1,782	\$ 1,037	\$ 25,184
2018					
Electric Utilities and Infrastructure	\$ 19,013	\$ 2,345	\$ —	\$ 915	\$ 22,273
Gas Utilities and Infrastructure	—	—	1,817	64	1,881
Commercial Renewables	—	375	—	102	477
Total Reportable Segments	\$ 19,013	\$ 2,720	\$ 1,817	\$ 1,081	\$ 24,631
2017					
Electric Utilities and Infrastructure	\$ 18,177	\$ 2,104	\$ —	\$ 1,050	\$ 21,331
Gas Utilities and Infrastructure	—	—	1,732	104	1,836
Commercial Renewables	—	375	—	85	460
Total Reportable Segments	\$ 18,177	\$ 2,479	\$ 1,732	\$ 1,239	\$ 23,627

Duke Energy Ohio

Duke Energy Ohio has two reportable segments, Electric Utilities and Infrastructure and Gas Utilities and Infrastructure.

Electric Utilities and Infrastructure transmits and distributes electricity in portions of Ohio and generates, distributes and sells electricity in portions of Northern Kentucky. Gas Utilities and Infrastructure transports and sells natural gas in portions of Ohio and Northern Kentucky. Both reportable segments conduct operations primarily through Duke Energy Ohio and its wholly owned subsidiary, Duke Energy Kentucky.

The remainder of Duke Energy Ohio's operations is presented as Other. In December 2018, the PUCO approved an order which allows the recovery or credit of revenues and expenses related to Duke Energy Ohio's contractual arrangement to buy power from OVEC power plants. Due to the change in regulatory treatment of these amounts, OVEC revenues and expenses are now reflected in the Electric Utilities and Infrastructure segment. Previously, OVEC revenues and expense were included in Other. These amounts are deemed immaterial for Duke Energy Ohio. Therefore, no prior period amounts were restated. See Note 4 for additional information on the PUCO order.

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Combined Notes to Consolidated Financial Statements – (Continued)

All Duke Energy Ohio assets and revenues from continuing operations are within the U.S.

(in millions)	Year Ended December 31, 2019					
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Total Reportable Segments	Other	Eliminations	Total
Total revenues	\$ 1,456	\$ 484	\$ 1,940	\$ —	\$ —	\$ 1,940
Interest expense	\$ 80	\$ 29	\$ 109	\$ —	\$ —	\$ 109
Depreciation and amortization	182	83	265	—	—	265
Income tax expense (benefit)	20	21	41	(1)	—	40
Segment income (loss)/Net income	159	85	244	(5)	—	239
Loss from discontinued operations, net of tax						(1)
Net income						\$ 238
Capital expenditures	\$ 680	\$ 272	\$ 952	\$ —	\$ —	\$ 952
Segment assets	6,188	3,116	9,304	34	—	9,338

(in millions)	Year Ended December 31, 2018					
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Total Reportable Segments	Other	Eliminations	Total
Total revenues	\$ 1,450	\$ 506	\$ 1,956	\$ 1	\$ —	\$ 1,957
Interest expense	\$ 67	\$ 24	\$ 91	\$ 1	\$ —	\$ 92
Depreciation and amortization	183	85	268	—	—	268
Income tax expense (benefit)	47	24	71	(28)	—	43
Segment income (loss)/Net income ^(a)	186	93	279	(103)	—	176
Capital expenditures	\$ 655	\$ 172	\$ 827	\$ —	\$ —	\$ 827
Segment assets	5,643	2,874	8,517	38	—	8,555

(a) Other includes the loss on the sale of Beckjord, see discussion above.

(in millions)	Year Ended December 31, 2017					
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Total Reportable Segments	Other	Eliminations	Total
Total revenues	\$ 1,373	\$ 508	\$ 1,881	\$ 42	\$ —	\$ 1,923
Interest expense	\$ 62	\$ 28	\$ 90	\$ 1	\$ —	\$ 91
Depreciation and amortization	178	83	261	—	—	261
Income tax expense (benefit)	40	39	79	(20)	—	59
Segment income (loss)	138	85	223	(30)	—	193
Loss from discontinued operations, net of tax						(1)
Net income						\$ 192
Capital expenditures	\$ 491	\$ 195	\$ 686	\$ —	\$ —	\$ 686
Segment assets	5,066	2,758	7,824	66	(15)	7,875

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Combined Notes to Consolidated Financial Statements – (Continued)

4. REGULATORY MATTERS

REGULATORY ASSETS AND LIABILITIES

The Duke Energy Registrants record regulatory assets and liabilities that result from the ratemaking process. See Note 1 for further information.

The following tables present the regulatory assets and liabilities recorded on the Consolidated Balance Sheets of Duke Energy and Progress Energy. See separate tables below for balances by individual registrant.

(in millions)	Duke Energy		Progress Energy	
	December 31,		December 31,	
	2019	2018	2019	2018
Regulatory Assets				
AROs – coal ash	\$ 4,084	\$ 4,255	\$1,843	\$ 2,061
AROs – nuclear and other	739	772	668	601
Accrued pension and OPEB	2,391	2,654	897	1,074
Storm cost deferrals	1,399	1,117	1,214	953
Nuclear asset securitized balance, net	1,042	1,093	1,042	1,093
Debt fair value adjustment	1,019	1,099	—	—
Deferred fuel and purchased power	528	838	305	600
Deferred asset – Lee and Harris COLA	388	426	38	43
Hedge costs deferrals	356	204	129	74
Demand side management (DSM)/Energy Efficiency (EE)	343	449	241	256
Advanced metering infrastructure (AMI)	338	367	114	127
Retired generation facilities	331	402	266	324
Post-in-service carrying costs (PISCC) and deferred operating expenses	329	320	33	36
Vacation accrual	214	213	41	41
Derivatives – natural gas supply contracts	117	141	—	—
Nuclear deferral	107	133	40	46
Manufactured gas plant (MGP)	102	99	—	—
Deferred pipeline integrity costs	79	65	—	—
NCEMPA deferrals	72	50	72	50
East Bend deferrals	44	47	—	—
Transmission expansion obligation	36	39	—	—
Amounts due from customers	36	24	—	—
Grid modernization	28	31	—	—
Other	896	784	349	322
Total regulatory assets	15,018	15,622	7,292	7,701
Less: current portion	1,796	2,005	946	1,137
Total noncurrent regulatory assets	\$13,222	\$13,617	\$6,346	\$6,564
Regulatory Liabilities				
Net regulatory liability related to income taxes	\$ 7,872	\$ 8,058	\$2,595	\$ 2,710
Costs of removal	5,756	5,421	2,561	2,135
AROs – nuclear and other	1,100	538	—	—
Accrued pension and OPEB	176	301	—	149
Amounts to be refunded to customers	34	34	—	—
Deferred fuel and purchased power	1	16	1	16
Other	1,109	1,064	398	319
Total regulatory liabilities	16,048	15,432	5,555	5,329
Less: current portion	784	598	330	280
Total noncurrent regulatory liabilities	\$15,264	\$14,834	\$5,225	\$5,049

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Combined Notes to Consolidated Financial Statements – (Continued)

Descriptions of regulatory assets and liabilities summarized in the tables above and below follow. See tables below for recovery and amortization periods at the separate registrants.

AROs – coal ash. Represents deferred depreciation and accretion related to the legal obligation to close ash basins. The costs are deferred until recovery treatment has been determined. See Notes 1 and 10 for additional information.

AROs – nuclear and other. Represents regulatory assets or liabilities, including deferred depreciation and accretion, related to legal obligations associated with the future retirement of property, plant and equipment, excluding amounts related to coal ash. The AROs relate primarily to decommissioning nuclear power facilities. The amounts also include certain deferred gains and losses on NDTF investments. See Notes 1 and 10 for additional information.

Accrued pension and OPEB. Accrued pension and OPEB represent regulatory assets and liabilities related to each of the Duke Energy Registrants' respective shares of unrecognized actuarial gains and losses and unrecognized prior service cost and credit attributable to Duke Energy's pension plans and OPEB plans. The regulatory asset or liability is amortized with the recognition of actuarial gains and losses and prior service cost and credit to net periodic benefit costs for pension and OPEB plans. The accrued pension and OPEB regulatory assets are expected to be recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 23 for additional detail.

Storm cost deferrals. Represents deferred incremental costs incurred related to major weather-related events.

Nuclear asset securitized balance, net. Represents the balance associated with Crystal River Unit 3 retirement approved for recovery by the FPSC on September 15, 2015, and the upfront financing costs securitized in 2016 with issuance of the associated bonds. The regulatory asset balance is net of the AFUDC equity portion.

Debt fair value adjustment. Purchase accounting adjustments recorded to state the carrying value of Progress Energy and Piedmont at fair value in connection with the 2012 and 2016 mergers, respectively. Amount is amortized over the life of the related debt.

Deferred fuel and purchased power. Represents certain energy-related costs that are recoverable or refundable as approved by the applicable regulatory body.

Deferred asset – Lee and Harris COLA. Represents deferred costs incurred for the canceled Lee and Harris nuclear projects.

Hedge costs and other deferrals. Amounts relate to unrealized gains and losses on derivatives recorded as a regulatory asset or liability, respectively, until the contracts are settled.

DSM/EE. Deferred costs related to various DSM and EE programs recoverable through various mechanisms.

AMI. Represents deferred costs related to the installation of AMI meters and remaining net book value of non-AMI meters to be replaced at Duke Energy Carolinas, net book value of existing meters at Duke Energy Florida, Duke Energy Progress and Duke Energy Ohio and expected future recovery of net book value of electromechanical meters that have been replaced with AMI meters at Duke Energy Indiana.

Retired generation facilities. Represents amounts to be recovered for facilities that have been retired and are probable of recovery.

Post-in-service carrying costs (PISCC) and deferred operating expenses. Represents deferred depreciation and operating expenses as well as

carrying costs on the portion of capital expenditures placed in service but not yet reflected in retail rates as plant in service.

Vacation accrual. Represents vacation entitlement, which is generally recovered in the following year.

Derivatives – natural gas supply contracts. Represents costs for certain long-dated, fixed quantity forward gas supply contracts, which are recoverable through PGA clauses.

Nuclear deferral. Includes amounts related to leveling nuclear plant outage costs, which allows for the recognition of nuclear outage expenses over the refueling cycle rather than when the outage occurs, resulting in the deferral of operations and maintenance costs associated with refueling.

MGP. Represents remediation costs incurred at former MGP sites and the deferral of costs to be incurred at Duke Energy Ohio's East End and West End sites.

Deferred pipeline integrity costs. Represents pipeline integrity management costs in compliance with federal regulations recovered through a rider mechanism.

NCEMPA deferrals. Represents retail allocated cost deferrals and returns associated with the additional ownership interest in assets acquired from NCEMPA in 2015.

East Bend deferrals. Represents both deferred operating expenses and deferred depreciation as well as carrying costs on the portion of East Bend that was acquired from Dayton Power and Light and that had been previously operated as a jointly owned facility.

Transmission expansion obligation. Represents transmission expansion obligations related to Duke Energy Ohio's withdrawal from MISO.

Amounts due from customers. Relates primarily to margin decoupling and IMR recovery mechanisms.

Grid modernization. Amounts represent deferred depreciation and operating expenses as well as carrying costs on the portion of capital expenditures placed in service but not yet reflected in retail rates as plant in service.

Net regulatory liability related to income taxes. Amounts for all registrants include regulatory liabilities related primarily to impacts from the Tax Act. See Note 24 for additional information. Amounts have no immediate impact on rate base as regulatory assets are offset by deferred tax liabilities.

Costs of removal. Represents funds received from customers to cover the future removal of property, plant and equipment from retired or abandoned sites as property is retired. Also includes certain deferred gains on NDTF investments.

Amounts to be refunded to customers. Represents required rate reductions to retail customers by the applicable regulatory body.

RESTRICTIONS ON THE ABILITY OF CERTAIN SUBSIDIARIES TO MAKE DIVIDENDS, ADVANCES AND LOANS TO DUKE ENERGY

As a condition to the approval of merger transactions, the NCUC, PSCSC, PUCO, KPSC and IURC imposed conditions on the ability of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Ohio, Duke Energy Kentucky, Duke Energy Indiana and Piedmont to transfer funds to Duke Energy through loans or advances, as well as restricted amounts available to pay dividends to Duke Energy. Certain subsidiaries may transfer funds to the Parent by obtaining approval of the respective state regulatory commissions. These conditions imposed restrictions on the ability of the public utility subsidiaries to pay cash dividends as discussed below.

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Progress and Duke Energy Florida also have restrictions imposed by their first mortgage bond indentures, which in certain circumstances, limit their ability to make cash dividends or distributions on common stock. Amounts restricted as a result of these provisions were not material at December 31, 2019.

Additionally, certain other subsidiaries of Duke Energy have restrictions on their ability to dividend, loan or advance funds to Duke Energy due to specific legal or regulatory restrictions, including, but not limited to, minimum working capital and tangible net worth requirements.

The restrictions discussed below were not a material amount of Duke Energy's and Progress Energy's net assets at December 31, 2019.

Duke Energy Carolinas

Duke Energy Carolinas must limit cumulative distributions subsequent to mergers to (i) the amount of retained earnings on the day prior to the closing of the mergers, plus (ii) any future earnings recorded.

Duke Energy Progress

Duke Energy Progress must limit cumulative distributions subsequent to the mergers between Duke Energy and Progress Energy and Duke Energy and Piedmont to (i) the amount of retained earnings on the day prior to the closing of the respective mergers, plus (ii) any future earnings recorded.

Duke Energy Ohio

Duke Energy Ohio will not declare and pay dividends out of capital or unearned surplus without the prior authorization of the PUCO. Duke Energy Ohio received FERC and PUCO approval to pay dividends from its equity accounts that are reflective of the amount that it would have in its retained earnings account had push-down accounting for the Cinergy merger not been applied to Duke Energy Ohio's balance sheet. The conditions include a commitment from Duke Energy Ohio that equity, adjusted to remove the impacts of push-down accounting, will not fall below 30% of total capital.

Duke Energy Kentucky is required to pay dividends solely out of retained earnings and to maintain a minimum of 35% equity in its capital structure.

Duke Energy Indiana

Duke Energy Indiana must limit cumulative distributions subsequent to the merger between Duke Energy and Cinergy to (i) the amount of retained earnings on the day prior to the closing of the merger, plus (ii) any future earnings recorded. In addition, Duke Energy Indiana will not declare and pay dividends out of capital or unearned surplus without prior authorization of the IURC.

Piedmont

Piedmont must limit cumulative distributions subsequent to the acquisition of Piedmont by Duke Energy to (i) the amount of retained earnings on the day prior to the closing of the merger, plus (ii) any future earnings recorded.

RATE-RELATED INFORMATION

The NCUC, PSCSC, FPSC, IURC, PUCO, TPUC and KPSC approve rates for retail electric and natural gas services within their states. The FERC approves rates for electric sales to wholesale customers served under cost-based rates (excluding Ohio and Indiana), as well as sales of transmission service. The FERC also regulates certification and siting of new interstate natural gas pipeline projects.

Duke Energy Carolinas and Duke Energy Progress

Hurricane Florence, Hurricane Michael and Winter Storm Diego Deferral Filings

On December 21, 2018, Duke Energy Carolinas and Duke Energy Progress filed with the NCUC petitions for approval to defer the incremental costs incurred in connection with the response to Hurricane Florence, Hurricane Michael and Winter Storm Diego to a regulatory asset for recovery in the next base rate case. The NCUC issued an order requesting comments on the deferral positions. On March 5, 2019, the North Carolina Public Staff (Public Staff) filed comments. On April 2, 2019, Duke Energy Carolinas and Duke Energy Progress filed reply comments, which included revised estimates of approximately \$553 million in incremental operation and maintenance expenses (\$171 million and \$382 million for Duke Energy Carolinas and Duke Energy Progress, respectively) and approximately \$96 million in capital costs (\$20 million and \$76 million for Duke Energy Carolinas and Duke Energy Progress, respectively). On September 30, 2019, Duke Energy Carolinas requested that the NCUC consolidate its pending deferral request with its general rate case filed on that date. On October 30, 2019, Duke Energy Progress requested that the NCUC consolidate its pending deferral request with its general rate case filed on that date. Duke Energy Carolinas and Duke Energy Progress cannot predict the outcome of these matters. Duke Energy Progress filed a deferral request for these storms with the PSCSC on January 11, 2019, which also included a request for the continuation of prior deferrals requested for ice storms and Hurricane Matthew, and on January 30, 2019, the PSCSC issued a directive approving the deferral request, followed by an order issued on February 21, 2019. On March 15, 2019, Duke Energy Progress filed a request with FERC requesting permission to defer transmission-related storm costs that would be charged to wholesale transmission customers through Duke Energy Progress' Open Access Transmission Tariff (OATT) and to recover those costs from wholesale transmission customers over a three-year recovery period. FERC accepted the filing on May 14, 2019, which allows Duke Energy Progress to proceed with the proposed cost deferral and recovery.

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Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Carolinas

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Carolinas' Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2019	2018		
Regulatory Assets^(a)				
AROs – coal ash	\$ 1,696	\$ 1,725	(i)	(b)
Accrued pension and OPEB	477	581		(i)
Storm cost deferrals	178	160	Yes	(b)
Deferred fuel and purchased power	222	196	(f)	2021
Deferred asset – Lee COLA	350	383		(b)
Hedge costs deferrals ^(c)	198	101	Yes	2041
DSM/EE	100	169	(h)	(h)
AMI	166	176	Yes	(b)
Retired generation facilities ^(c)	16	21	Yes	2023
PISCC ^(c)	33	34	Yes	(b)
Vacation accrual	80	78	(e)	2020
Nuclear deferral	67	87		2021
Other	327	266		(b)
Total regulatory assets	3,910	3,977		
Less: current portion	550	520		
Total noncurrent regulatory assets	\$ 3,360	\$ 3,457		
Regulatory Liabilities^(a)				
Net regulatory liability related to income taxes ^(d)	\$ 3,060	\$ 3,082		(b)
Costs of removal ^(c)	1,936	1,968	Yes	(g)
AROs – nuclear and other	1,100	538		(b)
Accrued pension and OPEB	39	38		(i)
Other	543	572		(b)
Total regulatory liabilities	6,678	6,198		
Less: current portion	255	199		
Total noncurrent regulatory liabilities	\$ 6,423	\$ 5,999		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Included in rate base.
(d) Includes regulatory liabilities related to the change in the federal tax rate as a result of the Tax Act and the change in the North Carolina tax rate, both discussed in Note 24.
(e) Earns a return on outstanding balance in North Carolina.
(f) Pays interest on over-recovered costs in North Carolina. Includes certain purchased power costs in North Carolina and South Carolina and costs of distributed energy in South Carolina.
(g) Recovered over the life of the associated assets.
(h) Includes incentives on DSM/EE investments and is recovered through an annual rider mechanism.
(i) Earns a debt and equity return on coal ash expenditures for North Carolina and South Carolina retail customers as permitted by various regulatory orders.
(j) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 23 for additional detail.

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Combined Notes to Consolidated Financial Statements – (Continued)

2017 North Carolina Rate Case

On August 25, 2017, Duke Energy Carolinas filed an application with the NCUC for a rate increase for retail customers of approximately \$647 million, which represented an approximate 13.6% increase in annual base revenues. The request for rate increase was driven by capital investments subsequent to the previous base rate case, including the W.S. Lee CC, grid improvement projects, AMI, investments in customer service technologies, costs of complying with CCR regulations and the Coal Ash Act and recovery of costs related to licensing and development of the William States Lee III Nuclear Station.

On February 28, 2018, Duke Energy Carolinas and the Public Staff filed an Agreement and Stipulation of Partial Settlement resolving certain portions of the proceeding. Terms of the settlement included a return on equity of 9.9% and a capital structure of 52% equity and 48% debt. As a result of the settlement, Duke Energy Carolinas recorded a pretax charge of approximately \$4 million in the first quarter of 2018 to Operation, maintenance and other on the Consolidated Statements of Operations.

On June 22, 2018, the NCUC issued an order approving the Stipulation of Partial Settlement and requiring a revenue reduction.

As a result of the June 22, 2018, order, Duke Energy Carolinas recorded a pretax charge of approximately \$150 million to Impairment charges and Operation, maintenance and other on the Consolidated Statements of Operations. The charge was primarily related to the denial of a return on the Lee Nuclear Project and the assessment of a \$70 million management penalty by reducing the annual recovery of deferred coal ash costs by \$14 million per year over a five-year recovery period. On July 27, 2018, NCUC approved Duke Energy Carolinas' compliance filing. As a result, revised customer rates were effective on August 1, 2018.

On July 20, 2018, the North Carolina Attorney General filed a Notice of Appeal to the North Carolina Supreme Court from the June 22, 2018, Order Accepting Stipulation, Deciding Contested Issues and Requiring Revenue Reduction issued by the NCUC. The Attorney General contends the commission's order should be reversed and remanded, as it is in excess of the commission's statutory authority; affected by errors of law; unsupported by competent, material and substantial evidence in view of the entire record as submitted; and arbitrary or capricious. The Sierra Club, North Carolina Sustainable Energy Association, North Carolina Justice Center, North Carolina Housing Coalition, Natural Resource Defense Council and Southern Alliance for Clean Energy also filed Notices of Appeal to the North Carolina Supreme Court. On August 8, 2018, the Public Staff filed a Notice of Cross Appeal to the North Carolina Supreme Court, which contends the commission's June 22, 2018, order should be reversed and remanded, as it is affected by errors of law, and is unsupported by substantial evidence with regard to the commission's failure to consider substantial evidence of coal ash related environmental violations. On November 29, 2018, the North Carolina Attorney General's Office filed a motion with the North Carolina Supreme Court requesting the court consolidate the Duke Energy Carolinas and Duke Energy Progress appeals and enter an order adopting the parties' proposed briefing schedule as set out in the filing. On November 29, 2018, the North Carolina Supreme Court adopted a schedule for briefing set forth in the motion to consolidate the Duke Energy Carolinas and Duke Energy Progress appeals. Appellant briefs were filed on April 26, 2019. The Appellee response briefs were filed on September 25, 2019. Oral arguments before the North Carolina Supreme Court are scheduled for March 11, 2020. Duke Energy Carolinas cannot predict the outcome of this matter.

2019 North Carolina Rate Case

On September 30, 2019, Duke Energy Carolinas filed an application with the NCUC for a net rate increase for retail customers of approximately \$291 million, which represents an approximate 6% increase in annual base revenues. The gross rate case revenue increase request is \$445 million, which is offset by an EDIT rider of \$154 million to return to customers North Carolina and federal EDIT resulting from recent reductions in corporate tax rates. The request for rate increase is driven by major capital investments subsequent to the previous base rate case, coal ash pond closure costs, accelerated coal plant depreciation and deferred 2018 storm costs. Duke Energy Carolinas requests rates be effective no later than August 1, 2020. The NCUC has established a procedural schedule with an evidentiary hearing to commence on March 23, 2020. Duke Energy Carolinas cannot predict the outcome of this matter.

2018 South Carolina Rate Case

On November 8, 2018, Duke Energy Carolinas filed an application with the PSCSC for a rate increase for retail customers of approximately \$168 million, which represents an approximate 10% increase in retail revenues. The request for rate increase was driven by capital investments and environmental compliance progress made by Duke Energy Carolinas since its previous rate case, including the further implementation of Duke Energy Carolinas' generation modernization program, which consists of retiring, replacing and upgrading generation plants, investments in customer service technologies and continued investments in base work to maintain its transmission and distribution systems. The request included net tax benefits resulting from the Tax Act of \$66 million to reflect the change in ongoing tax expense, primarily from the reduction in the federal income tax rate from 35% to 21%. The request also included \$46 million to return EDIT resulting from the federal tax rate change and deferred revenues since January 2018 related to the change and benefits of \$17 million from a reduction in North Carolina state income taxes allocable to South Carolina (EDIT Rider).

Duke Energy Carolinas also requested approval of its proposed Grid Improvement Plan (GIP), adjustments to its Prepaid Advantage Program and a variety of accounting orders related to ongoing costs for environmental compliance, including recovery over a five-year period of \$242 million of deferred coal ash related compliance costs, grid investments between rate changes, incremental depreciation expense, a result of new depreciation rates from the depreciation study approved in the 2017 North Carolina Rate Case above, and the balance of development costs associated with the cancellation of the Lee Nuclear Project. Finally, Duke Energy Carolinas sought approval to establish a reserve and accrual for end-of-life nuclear costs for nuclear fuel and materials and supplies. On March 8, 2019, the ORS moved to establish a new and separate hearing docket to review and consider the GIP proposed by Duke Energy Carolinas. Subsequently, on March 12, 2019, the ORS and Duke Energy Carolinas executed a Stipulation resolving the ORS's motion. The Stipulation provided that costs incurred for the GIP after January 1, 2019, would be deferred with a return, subject to evaluation in a future rate proceeding. The Stipulation was approved by the PSCSC on June 19, 2019. On December 16, 2019, Duke Energy Carolinas and Duke Energy Progress filed a Joint Petition to Establish an Informational Docket for Review and Consideration of Grid Improvement Plans through which Duke Energy Carolinas and Duke Energy Progress would provide interested stakeholders information on the companies' grid activities. The PSCSC requested parties comment on procedural matters by January 31; accordingly, various groups filed comments, none of which opposed an informational docket. Duke Energy Carolinas cannot predict the outcome of this matter.

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Combined Notes to Consolidated Financial Statements – (Continued)

After hearings in March 2019, the PSCSC issued an order on May 21, 2019, which included a return on equity of 9.5% and a capital structure of 53% equity and 47% debt. The order also included the following material components:

- Approval of cancellation of the Lee Nuclear Project, with Duke Energy Carolinas maintaining the Combined Operating License;
- Approval of recovery of \$125 million (South Carolina retail portion) of Lee Nuclear Project development costs (including AFUDC through December 2017) over a 12-year period, but denial of a return on the deferred balance of costs;
- Approval of recovery of \$96 million of coal ash costs over a five-year period with a return at Duke Energy Carolinas' WACC;
- Denial of recovery of \$115 million of certain coal ash costs deemed to be related to the Coal Ash Act and incremental to the federal CCR rule;
- Approval of a \$66 million decrease to base rates to reflect the change in ongoing tax expense, primarily the reduction in the federal income tax rate from 35% to 21%;
- Approval of a \$45 million decrease through the EDIT Rider to return EDIT resulting from the federal tax rate change and deferred revenues since January 2018 related to the change, to be returned in accordance with the Average Rate Assumption Method (ARAM) for protected EDIT, over a 20-year period for unprotected EDIT associated with Property, Plant and Equipment, over a five-year period for unprotected EDIT not associated with Property, Plant and Equipment and over a five-year period for the deferred revenues; and
- Approval of a \$17 million decrease through the EDIT Rider related to reductions in the North Carolina state income tax rate from 6.9% to 2.5% to be returned over a five-year period.

As a result of the order, revised customer rates were effective June 1, 2019. On May 31, 2019, Duke Energy Carolinas filed a Petition for Rehearing or Reconsideration of that order contending substantial rights of Duke Energy Carolinas were prejudiced by unlawful, arbitrary and capricious rulings by the commission on certain issues presented in the proceeding. On June 19, 2019, the PSCSC issued a Directive denying Duke Energy Carolinas' request to rehear or reconsider the commission's rulings on certain issues presented in the proceeding including coal ash remediation and disposal costs, return on equity and the recovery of a return on deferred operation and maintenance expenses. An order detailing the commission's decision in the Directive was issued on October 18, 2019. Duke Energy Carolinas filed a notice of appeal on November 15, 2019, with the South Carolina Supreme Court. On November 20, 2019, the South Carolina Energy Users Committee filed a Notice of Appeal and the ORS filed a Notice of Cross Appeal with the South Carolina Supreme Court. On January 8, 2020, Duke Energy Carolinas and the ORS filed a joint motion to extend briefing schedule deadlines. Appellant briefs are due on March 2, 2020, and Appellee response briefs are due on May 15, 2020. On February 12, 2020, Duke Energy Carolinas and the ORS filed a joint motion to extend briefing deadlines by 30 days. Based on legal analysis and the filing of the appeal, Duke Energy Carolinas has not recorded an adjustment for its deferred coal ash costs. Duke Energy Carolinas cannot predict the outcome of this matter.

FERC Formula Rate Matter

On July 31, 2017, PMPA filed a complaint with FERC alleging that Duke Energy Carolinas misapplied the formula rate under the PPA between the parties by including in its rates amortization expense associated with regulatory assets and recorded in a certain account without FERC approval. On February 15, 2018, FERC issued an order ruling in favor of PMPA and ordered Duke Energy Carolinas to refund to PMPA all amounts improperly collected under the PPA. Duke Energy Carolinas has issued to PMPA and similarly situated wholesale customers refunds of approximately \$25 million. FERC also set the matter for settlement and hearing. PMPA and other customers filed a protest to Duke Energy Carolinas' refund report claiming that the refunds are inadequate in that (1) Duke Energy Carolinas invoked the limitations periods in the contracts to limit the time period for which the refunds were paid and the customers disagree that this limitation applies, and (2) Duke Energy Carolinas refunded only amounts recovered through a certain account and the customers have asserted that the order applies to all regulatory assets. On July 3, 2018, FERC issued an order accepting Duke Energy Carolinas' refund report and ruling that these two claims are outside the scope of FERC's February order. The settlement agreements and revised formula rates for all parties to the proceeding were filed on December 28, 2018. On April 2, 2019, FERC issued an order approving the settlement agreement as filed. Since then, Duke Energy Carolinas has implemented the terms of the settlement in rates with all wholesale customers, including non-intervening customers. On July 25, 2019, Duke Energy Carolinas received FERC approval for the accounting treatment requested for certain assets included in the settlement agreements. This is the final approval needed from FERC and concludes this proceeding.

Sale of Hydroelectric (Hydro) Plants

In May 2018, Duke Energy Carolinas entered an agreement for the sale of five hydro plants with a combined 18.7-MW generation capacity in the Western Carolinas region to Northbrook Energy. The completion of the transaction was subject to approval from FERC for the four FERC-licensed plants, as well as other state regulatory agencies and was contingent upon regulatory approval from the NCUC and PSCSC to defer the total estimated loss on the sale of approximately \$40 million. On July 5, 2018, Duke Energy Carolinas filed with the NCUC for approval of the sale of the five hydro plants to Northbrook, to transfer the CPCNs for the four North Carolina hydro plants and to establish a regulatory asset for the North Carolina retail portion of the difference between sales proceeds and net book value. On June 5, 2019, the NCUC issued an order approving the transfer of the hydro plants from Duke Energy Carolinas to Northbrook, granting deferral accounting and denying the Public Staff's motion for reconsideration.

On August 28, 2018, Duke Energy Carolinas filed with PSCSC an Application for Approval of Transfer and Sale of Hydroelectric Generation Facilities, Acceptance for Filing of a Power Purchase Agreement and an Accounting Order to Establish a Regulatory Asset. On September 10, 2018, the ORS provided a letter to the commission stating its position on the application and on September 18, 2018, Duke Energy Carolinas requested this matter be carried over to allow Duke Energy Carolinas time to discuss certain accounting issues with the ORS. At its June 26, 2019, agenda meeting, the PSCSC voted to approve the transfer and sale subject to the recommendation of the ORS that the issuance of an Accounting Order will not preclude the ORS, the commission or any other party from addressing the reasonableness of these costs, any return sought and including any carrying costs in the next rate case.

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

On August 9, 2018, Duke Energy Carolinas and Northbrook filed a joint Application for Transfer of Licenses with the FERC. On December 27, 2018, the FERC issued its Order Approving Transfer of Licenses for the four FERC-licensed hydro plants. On January 18, 2019, Duke Energy Carolinas and Northbrook Carolina Hydro II, LLC requested a six-month extension of time to comply with the requirement of the December 27, 2018, order that Northbrook submit to FERC certified copies of all instruments of conveyance and signed acceptance sheets within 60 days of the date of the order. On February 14,

2019, FERC issued an order granting extensions until August 26, 2019, to comply with the requirements of the December 27, 2018, order.

The closing occurred on August 16, 2019. A regulatory asset was established for approximately \$32 million, which represents the total deferral amount for North Carolina and South Carolina retail. The North Carolina retail portion will be amortized pursuant to an order from the NCUC. Duke Energy Carolinas will purchase all the capacity and energy generated by these facilities at the avoided cost for five years through power purchase agreements.

Duke Energy Progress

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Progress' Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2019	2018		
Regulatory Assets^(a)				
AROs – coal ash	\$ 1,834	\$ 2,051	(h)	(b)
AROs – nuclear and other	509	429		(c)
Accrued pension and OPEB	423	542		(k)
Storm cost deferrals ^(d)	801	571	Yes	(b)
Deferred fuel and purchased power	266	397	(f)	2021
Deferred asset – Harris COLA	38	43		
Hedge costs deferrals	85	54		(b)
DSM/EE ^(e)	216	235	(i)	(i)
AMI	61	67		(b)
Retired generation facilities	83	105	Yes	(b)
PISCC and deferred operating expenses	33	36	Yes	2054
Vacation accrual	41	41		2020
Nuclear deferral	40	46		2021
NCEMPA deferrals	72	50	(g)	2042
Other	176	147		(b)
Total regulatory assets	4,678	4,814		
Less: current portion	526	703		
Total noncurrent regulatory assets	\$ 4,152	\$ 4,111		
Regulatory Liabilities^(a)				
Net regulatory liability related to income taxes ⁽ⁱ⁾	\$ 1,802	\$ 1,863		(b)
Costs of removal	2,294	1,878	Yes	(i)
Accrued pension and OPEB	—	93		(k)
Other	372	299		(b)
Total regulatory liabilities	4,468	4,133		
Less: current portion	236	178		
Total noncurrent regulatory liabilities	\$ 4,232	\$ 3,955		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Recovery period for costs related to nuclear facilities runs through the decommissioning period of each unit.
(d) South Carolina storm costs are included in rate base.
(e) Included in rate base.
(f) Pays interest on over-recovered costs in North Carolina. Includes certain purchased power costs in North Carolina and South Carolina and costs of distributed energy in South Carolina.
(g) South Carolina retail allocated costs are earning a return.
(h) Earns a debt and equity return on coal ash expenditures for North Carolina and South Carolina retail customers as permitted by various regulatory orders.
(i) Includes incentives on DSM/EE investments and is recovered through an annual rider mechanism.
(j) Recovered over the life of the associated assets.
(k) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 23 for additional detail.
(l) Includes regulatory liabilities related to the change in the federal tax rate as a result of the Tax Act and the change in the North Carolina tax rate, both discussed in Note 23.

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Combined Notes to Consolidated Financial Statements – (Continued)

2017 North Carolina Rate Case

On June 1, 2017, Duke Energy Progress filed an application with the NCUC for a rate increase for retail customers of approximately \$477 million, which represented an approximate 14.9% increase in annual base revenues. Subsequent to the filing, Duke Energy Progress adjusted the requested amount to \$420 million, representing an approximate 13% increase. The request for rate increase was driven by capital investments subsequent to the previous base rate case, costs of complying with CCR regulations and the Coal Ash Act, costs relating to storm recovery, investments in customer service technologies and recovery of costs associated with renewable purchased power.

On November 22, 2017, Duke Energy Progress and the Public Staff filed an Agreement and Stipulation of Partial Settlement resolving certain portions of the proceeding. Terms of the settlement included a return on equity of 9.9% and a capital structure of 52% equity and 48% debt. On February 23, 2018, the NCUC issued an order approving the stipulation.

The order also impacted certain amounts that were similarly recorded on Duke Energy Carolinas' Consolidated Balance Sheets. As a result of the order, Duke Energy Progress and Duke Energy Carolinas recorded pretax charges of \$68 million and \$14 million, respectively, in the first quarter of 2018 to Impairment charges, Operation, maintenance and other and Interest Expense on the Consolidated Statements of Operations. Revised customer rates became effective on March 16, 2018.

On May 15, 2018, the Public Staff filed a Notice of Cross Appeal to the North Carolina Supreme Court from the NCUC's February 23, 2018, order. The Public Staff contends the NCUC's order should be reversed and remanded, as it is affected by errors of law, and is unsupported by competent, material and substantial evidence in view of the entire record as submitted. The North Carolina Attorney General and Sierra Club also filed Notices of Appeal to the North Carolina Supreme Court from the February 23, 2018, order. On November 29, 2018, the North Carolina Attorney General's Office filed a motion with the North Carolina Supreme Court requesting the court consolidate the Duke Energy Progress and Duke Energy Carolinas appeals and enter an order adopting the parties' proposed briefing schedule as set out in the filing. Appellant briefs were filed on April 26, 2019. The Appellee response briefs were filed on September 25, 2019. Oral arguments before the North Carolina Supreme Court are scheduled for March 11, 2020. Duke Energy Progress cannot predict the outcome of this matter.

2019 North Carolina Rate Case

On October 30, 2019, Duke Energy Progress filed an application with the NCUC for a net rate increase for retail customers of approximately \$464 million, which represents an approximate 12.3% increase in annual base revenues. The gross rate case revenue increase request is \$586 million, which is offset by riders of \$122 million, primarily an EDIT rider of \$120 million to return to customers North Carolina and federal EDIT resulting from recent reductions in corporate tax rates. The request for rate increase is driven by major capital investments subsequent to the previous base rate case, coal ash pond closure costs, accelerated coal plant depreciation and deferred 2018 storm costs. Duke Energy Progress seeks to defer and recover incremental Hurricane Dorian storm costs in this proceeding and requests rates be effective no later than September 1, 2020. The NCUC has established a procedural schedule with an evidentiary hearing to commence on May 4, 2020. Duke Energy Progress cannot predict the outcome of this matter.

Hurricane Dorian

Hurricane Dorian reached the Carolinas in September 2019 as a Category 2 hurricane making landfall within Duke Energy Progress' service territory. Approximately 270,000 North Carolina customers and 30,000 South Carolina customers were impacted by the slow-moving storm that brought high winds, tornadoes and heavy rain. With storm-response mobilization occurring in preparation for the storm and the assistance of mutual aid partners, full restoration was accomplished within four days for all customers able to receive service. Total estimated incremental operation and maintenance expenses incurred to repair and restore the system are approximately \$205 million with an additional \$4 million in capital investments made for restoration efforts. Approximately \$179 million of the operation and maintenance expenses are deferred in Regulatory assets within Other Noncurrent Assets on the Consolidated Balance Sheets as of December 31, 2019. The balance of operation and maintenance expenses are included in Operation, maintenance and other on the Consolidated Statements of Operations for the year ended December 31, 2019. A request for an accounting order to defer incremental storm costs associated with Hurricane Dorian was included in Duke Energy Progress' October 30, 2019, general rate case filing with the NCUC. Duke Energy Progress cannot predict the outcome of this matter.

2018 South Carolina Rate Case

On November 8, 2018, Duke Energy Progress filed an application with the PSCSC for a rate increase for retail customers of approximately \$59 million, which represents an approximate 10.3% increase in annual base revenues. The request for rate increase was driven by capital investments and environmental compliance progress made by Duke Energy Progress since its previous rate case, including the further implementation of Duke Energy Progress' generation modernization program, which consists of retiring, replacing and upgrading generation plants, investments in customer service technologies and continued investments in base work to maintain its transmission and distribution systems. The request included a decrease resulting from the Tax Act of \$17 million to reflect the change in ongoing tax expense, primarily the reduction in the federal income tax rate from 35% to 21%. The request also included \$10 million to return EDIT resulting from the federal tax rate change and deferred revenues since January 2018 related to the change (EDIT Rider) and a \$12 million increase due to the expiration of EDITs related to reductions in North Carolina state income taxes allocable to South Carolina.

Duke Energy Progress also requested approval of its proposed GIP, approval of a Prepaid Advantage Program and a variety of accounting orders related to ongoing costs for environmental compliance, including recovery over a five-year period of \$51 million of deferred coal ash related compliance costs, AMI deployment, grid investments between rate changes and regulatory asset treatment related to the retirement of a generating plant located in Asheville, North Carolina. Finally, Duke Energy Progress sought approval to establish a reserve and accrual for end-of-life nuclear costs for materials and supplies and nuclear fuel. On March 8, 2019, the ORS moved to establish a new and separate hearing docket to review and consider the GIP proposed by Duke Energy Progress. Subsequently, on March 12, 2019, the ORS and Duke Energy Carolinas executed a Stipulation resolving the ORS's motion, and Duke Energy Progress agreed to the Stipulation, as did other parties in the rate case. The Stipulation provides that costs incurred for the GIP after January 1, 2019, would be deferred with a return, with all costs subject to evaluation in a future rate proceeding. The Stipulation was approved by the PSCSC on June 19, 2019. On December 16, 2019, Duke Energy Progress and Duke Energy Carolinas filed a Joint Petition to Establish an

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Combined Notes to Consolidated Financial Statements – (Continued)

Informational Docket for Review and Consideration of Grid Improvement Plans through which Duke Energy Progress and Duke Energy Carolinas would provide interested stakeholders information on the companies' grid activities. The PSCSC requested parties comment on procedural matters by January 31; accordingly, various groups filed comments, none of which opposed an informational docket. Duke Energy Progress cannot predict the outcome of this matter.

After hearings in April 2019, the PSCSC issued an order on May 21, 2019, which included a return on equity of 9.5% and a capital structure of 53% equity and 47% debt. The order also included the following material components:

- Approval of recovery of \$4 million of coal ash costs over a five-year period with a return at Duke Energy Progress' WACC;
- Denial of recovery of \$65 million of certain coal ash costs deemed to be related to the Coal Ash Act and incremental to the federal CCR rule;
- Approval of a \$17 million decrease to base rates to reflect the change in ongoing tax expense, primarily the reduction in the federal income tax rate from 35% to 21%;
- Approval of a \$12 million decrease through the EDIT Tax Savings Rider resulting from the federal tax rate change and deferred revenues since January 2018 related to the change, to be returned in accordance with ARAM for protected EDIT, over a 20-year period for unprotected EDIT associated with Property, Plant and Equipment, over a five-year period for unprotected EDIT not associated with Property, Plant and Equipment and over a three-year period for the deferred revenues; and
- Approval of a \$12 million increase due to the expiration of EDIT related to reductions in the North Carolina state income tax rate from 6.9% to 2.5%.

As a result of the order, revised customer rates were effective June 1, 2019. On May 31, 2019, Duke Energy Progress filed a Petition for Rehearing or Reconsideration of that order contending substantial rights of Duke Energy Progress were prejudiced by unlawful, arbitrary and capricious rulings by the commission on certain issues presented in the proceeding. On June 19, 2019, the PSCSC issued a Directive denying Duke Energy Progress' request to rehear or reconsider the commission's rulings on certain issues presented in the proceeding including coal ash remediation and disposal costs, return on equity and the recovery of a return on deferred operation and maintenance expenses, but allowing additional litigation-related costs. As a result of the Directive allowing litigation-related costs, customer rates were revised effective July 1, 2019. An order detailing the commission's decision in the Directive was issued on October 18, 2019. Duke Energy Progress filed a notice of appeal on November 15, 2019, with the South Carolina Supreme Court. The ORS filed a Notice of Cross Appeal on November 20, 2019. On January 8, 2020, Duke Energy Progress and the ORS filed a joint motion to extend briefing schedule deadlines. Appellant briefs are due on March 2, 2020, and Appellee response briefs are on May 15, 2020. On February 12, 2020, Duke Energy Progress and the ORS filed a joint motion to extend briefing deadlines by 30 days. Based on legal analysis and the filing of the appeal, Duke Energy Progress has not recorded an adjustment for its deferred coal ash costs. Duke Energy Progress cannot predict the outcome of this matter.

Western Carolinas Modernization Plan

On November 4, 2015, Duke Energy Progress announced a Western Carolinas Modernization Plan, which included retirement of the existing Asheville coal-fired plant, the construction of two 280 MW combined-cycle natural gas plants having dual-fuel capability, with the option to build a third

natural gas simple cycle unit in 2023 based upon the outcome of initiatives to reduce the region's power demand. The plan also included upgrades to existing transmission lines and substations, installation of solar generation and a pilot battery storage project. Duke Energy Progress worked with the local natural gas distribution company to upgrade and lease an existing natural gas pipeline to serve the natural gas plant. The lease for the new pipeline became effective on March 2, 2019.

On March 28, 2016, the NCUC issued an order approving a CPCN for the new combined-cycle natural gas plants, but is requiring Duke Energy Progress to refile for CPCN approval for the contingent simple cycle unit. On March 28, 2019, Duke Energy Progress filed an annual progress report for the construction of the combined-cycle plants with the NCUC, with an estimated cost of \$893 million.

On December 27, 2019, Asheville Combined Cycle Power Block 1 and the common systems that serve both combined cycle units went into commercial operation. Power Block 1 consists of the Unit 5 Combustion Turbine and Unit 6 Steam Turbine Generator (which together form the first combined cycle unit approved in the CPCN Order). Power Block 2 consists of the Unit 7 Combustion Turbine and Unit 8 Steam Turbine Generator (which together form the second combined cycle unit approved in the CPCN Order). Duke Energy Progress placed the Unit 7 Combustion Turbine portion of Power Block 2 into commercial operation in simple-cycle mode on January 15, 2020. Duke Energy Progress currently expects to place the Unit 8 Steam Turbine Generator into commercial operation in the first quarter of 2020, after final testing has been completed.

On October 8, 2018, Duke Energy Progress filed an application with the NCUC for a CPCN to construct the Hot Springs Microgrid Solar and Battery Storage Facility. On March 22, 2019, Duke Energy Progress and the Public Staff filed a Joint Proposed Order. On May 10, 2019, the NCUC issued an Order Granting Certificate of Public Convenience and Necessity with Conditions. On November 19, 2019, Duke Energy Progress filed a semiannual progress report for its Hot Springs Microgrid Solar and Battery Storage Facility. As required by an NCUC order issued December 6, 2019, an updated progress report was filed on January 15, 2020. Construction is expected to begin in March 2020 with commercial operation expected to begin in September 2020.

The carrying value of the 376-MW Asheville coal-fired plant, including associated ash basin closure costs, of \$214 million and \$327 million is included in Generation facilities to be retired, net on Duke Energy Progress' Consolidated Balance Sheets as of December 31, 2019, and 2018, respectively. Duke Energy Progress' request for a regulatory asset at the time of retirement with amortization over a 10-year period was approved by the NCUC on February 23, 2018. Duke Energy Progress retired the Asheville coal-fired plant on January 29, 2020.

FERC Return on Equity Complaint

On October 11, 2019, NCEMPA filed a complaint at FERC against Duke Energy Progress pursuant to Section 206 of the Federal Power Act (FPA). The complaint alleges that the return on equity component in the formula rate contained within the Full Requirements Power Purchase Agreement (FRPPA) is unjust and unreasonable. The FRPPA's return on equity is 11% as applied to the Production Capacity Rate for the full requirements service provided by Duke Energy Progress. The complaint does not definitively propose a replacement return on equity. Under FPA Section 206, the earliest refund effective date that FERC can establish is the date of the filing of the complaint. The complaint could raise risks across the Duke Energy Progress wholesale business because, depending on how FERC treats NCEMPA's complaint, other parties may come forward with similar complaints. Duke Energy Progress cannot predict the outcome of this matter.

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Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy Florida

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Florida's Consolidated Balance Sheets.

(in millions)	December 31,		Earnings/Pays a Return	Recovery/Refund Period Ends
	2019	2018		
Regulatory Assets^(a)				
AROs – coal ash ^(c)	\$ 9	\$ 10		(b)
AROs – nuclear and other ^(c)	159	172		(b)
Accrued pension and OPEB ^(c)	474	532	Yes	(g)
Storm cost deferrals ^(c)	413	382	(e)	2021
Nuclear asset securitized balance, net	1,042	1,093		2036
Deferred fuel and purchased power	39	203	(f)	2021
Hedge costs deferrals	44	20		2038
DSM/EE ^(c)	25	21	Yes	2024
AMI ^(c)	53	60	Yes	2032
Retired generation facilities ^(c)	183	219	Yes	(b)
Other	172	176	(d)	(b)
Total regulatory assets	2,613	2,888		
Less: current portion	419	434		
Total noncurrent regulatory assets	\$ 2,194	\$ 2,454		
Regulatory Liabilities^(a)				
Net regulatory liability related to income taxes ^(c)	\$ 793	\$ 847		(b)
Costs of removal ^(c)	267	257	(d)	(b)
Accrued pension and OPEB	—	56	Yes	(g)
Deferred fuel and purchased power ^(c)	1	16	(f)	2021
Other	26	20	(d)	(b)
Total regulatory liabilities	1,087	1,196		
Less: current portion	94	102		
Total noncurrent regulatory liabilities	\$ 993	\$ 1,094		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Included in rate base.
(d) Certain costs earn/pay a return.
(e) Earns a debt return/interest once collections begin.
(f) Earns commercial paper rate.
(g) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 23 for additional detail.

Storm Restoration Cost Recovery

In September 2017, Duke Energy Florida's service territory suffered significant damage from Hurricane Irma, resulting in approximately 1 million customers experiencing outages. In the fourth quarter of 2017, Duke Energy Florida also incurred preparation costs related to Hurricane Nate. On December 28, 2017, Duke Energy Florida filed a petition with the FPSC to recover incremental storm restoration costs for Hurricane Irma and Hurricane Nate and to replenish the storm reserve. On February 6, 2018, the FPSC approved a stipulation that would apply tax savings resulting from the Tax Act toward storm costs effective January 2018 in lieu of implementing a storm surcharge. On May 31, 2018, Duke Energy Florida filed a petition for approval of actual storm restoration costs and associated recovery process related to Hurricane Irma and Hurricane Nate. The petition sought the approval for the recovery in the amount of \$510 million in actual recoverable storm restoration costs, including the replenishment of Duke Energy Florida's storm reserve of \$132 million, and the process for recovering these recoverable storm costs. On August 20, 2018,

the FPSC approved Duke Energy Florida's unopposed Motion for Continuance filed August 17, 2018, to allow for an evidentiary hearing in this matter. On January 28, 2019, Duke Energy Florida made a supplemental filing to reduce the total storm cost recovery from \$510 million to \$508 million. On April 3, 2019, the FPSC issued an Order abating all remaining filing dates. On April 9, 2019, Duke Energy Florida filed an unopposed motion to approve a settlement agreement resolving all outstanding issues in this docket. On June 13, 2019, the FPSC issued its order approving the settlement agreement. The Storm Cost Settlement Agreement obligates Duke Energy Florida to capitalize \$18 million of storm costs and remove \$6 million of operating and maintenance expense, thereby reducing the requested storm cost recovery amount by \$24 million. Duke Energy Florida will also implement process changes with respect to storm cost restoration. At December 31, 2019, and December 31, 2018, Duke Energy Florida's Consolidated Balance Sheets included approximately \$43 million and \$217 million, respectively, of recoverable costs under the FPSC's storm rule in Regulatory assets within Current Assets and Other Noncurrent Assets related to storm recovery for Hurricane Irma and Hurricane Nate.

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Combined Notes to Consolidated Financial Statements – (Continued)

In October 2018, Duke Energy Florida's service territory suffered damage when Hurricane Michael made landfall as a Category 5 hurricane with maximum sustained winds of 160 mph. The storm caused catastrophic damage from wind and storm surge, particularly from Panama City Beach to Mexico Beach, resulting in widespread outages and significant damage to transmission and distribution facilities across the central Florida Panhandle. In response to Hurricane Michael, Duke Energy Florida restored service to approximately 72,000 customers. Total estimated incremental operation and maintenance and capital costs are \$311 million. Approximately \$107 million and \$35 million of the costs are included in Net property, plant and equipment on the Consolidated Balance Sheets as of December 31, 2019, and December 31, 2018, respectively. Approximately \$204 million and \$165 million of costs are included in Regulatory assets within Current Assets and Other Noncurrent Assets on the Consolidated Balance Sheets as of December 31, 2019, and December 31, 2018, respectively, representing recoverable costs under the FPSC's storm rule and Duke Energy Florida's OATT formula rates.

Duke Energy Florida filed a petition with the FPSC on April 30, 2019, to recover the retail portion of incremental storm restoration costs for Hurricane Michael. On June 11, 2019, the FPSC approved the petition for recovery of incremental storm restoration costs related to Hurricane Michael. The FPSC also approved the stipulation Duke Energy Florida filed, which will allow Duke Energy Florida to use the tax savings resulting from the Tax Act to recover these storm costs in lieu of implementing a storm surcharge. Approved storm costs are currently expected to be fully recovered by approximately year-end 2021. On November 22, 2019, Duke Energy Florida filed a petition for approval of actual retail recoverable storm restoration costs related to Hurricane Michael in the amount of \$191 million plus interest. An Order Establishing Procedure was issued on January 30, 2020, and hearings are scheduled to begin September 15, 2020. Duke Energy Florida cannot predict the outcome of this matter.

Hurricane Dorian

In September 2019, Duke Energy Florida's service territory was threatened by Hurricane Dorian with landfall as a possible Category 5 hurricane. For several days, various forecasts and models predicted significant impact to Duke Energy Florida's service territory; accordingly, Duke Energy Florida incurred costs to secure necessary resources to be prepared for that potential impact. Although Hurricane Dorian never made landfall in Florida, its effects were still felt, and outages did occur. Preparations were required so that, if Hurricane Dorian had made landfall and impacts had been more severe, Duke Energy Florida would have been prepared to restore its customers' power in a timely fashion.

Total current estimated incremental costs are approximately \$167 million. These costs are included in Regulatory assets within Current Assets and Other Noncurrent Assets on the Consolidated Balance Sheets as of December 31, 2019, representing recoverable costs under the FPSC's storm rule and Duke Energy Florida's OATT formula rates. On December 19, 2019, Duke Energy Florida filed a petition with the FPSC to recover the estimated retail portion of these costs, consistent with the provisions in the 2017 Settlement. The request seeks recovery over a 12-month period beginning in March 2020. The final actual amount will be filed later in 2020 and a hearing will be held at the FPSC to determine the final amount of incremental costs. Duke Energy Florida cannot predict the outcome of this matter.

Tax Act

Pursuant to Duke Energy Florida's 2017 Settlement, on May 31, 2018, Duke Energy Florida filed a petition related to the Tax Act, which included revenue requirement impacts of annual tax savings of \$134 million and estimated annual amortization of EDIT of \$67 million for a total of \$201 million.

Of this amount, \$50 million would be offset by accelerated depreciation of Crystal River 4 and 5 coal units and an estimated \$151 million would be offset by Hurricane Irma storm cost recovery as explained in the Storm Restoration Cost Recovery section above. On December 27, 2018, Duke Energy Florida filed actual EDIT balances and amortization based on its 2017 filed tax return. This increased the revenue requirement impact of the amortization of EDIT by \$4 million, from \$67 million to \$71 million, which increased the total storm amortization from \$151 million to \$155 million. On January 8, 2019, the FPSC approved a joint motion by Duke Energy Florida and the Office of Public Counsel resolving all stipulated positions. As part of that stipulation, Duke Energy Florida agreed to seek a Private Letter Ruling (PLR) from the IRS on its treatment of cost of removal (COR) as mostly protected by tax normalization rules. If the IRS rules that COR is not protected by tax normalization rules, then Duke Energy Florida will make a final adjustment to the amortization of EDIT and an adjustment to the storm recovery amount retroactive to January 2018. The IRS has communicated that it will not issue individual PLRs on the treatment of COR. Rather, the IRS is drafting a notice that will request comments on a number of issues, including COR, and the IRS plans to issue industrywide guidance on those issues. Duke Energy Florida cannot predict the outcome of this matter.

Citrus County CC

Construction of the 1,640-MW combined-cycle natural gas plant in Citrus County, Florida, began in October 2015 with an estimated cost of \$1.5 billion, including AFUDC. Both units came on-line in the fourth quarter of 2018. The ultimate cost of the facility was estimated to be \$1.6 billion, and Duke Energy Florida recorded impairment charges on Duke Energy's Consolidated Statements of Operations of \$60 million in the fourth quarter of 2018 for the overrun. In the year ended December 31, 2019, Duke Energy Florida recorded a \$36 million reduction to the prior-year impairment due to a decrease in the cost estimate of the Citrus County CC, primarily related to the settlement agreement with Fluor, the EPC contractor. This adjustment reduced the estimated cost of the facility to \$1.5 billion.

Solar Base Rate Adjustment

On July 31, 2018, Duke Energy Florida petitioned the FPSC to include in base rates the revenue requirements for its first two solar generation projects, the Hamilton Project and the Columbia Project, as authorized by the 2017 Settlement. The Hamilton Project, which was placed into service on December 22, 2018, has an annual retail revenue requirement of \$15 million. At its October 30, 2018, Agenda Conference, the FPSC approved the rate increase related to the Hamilton Project to go into effect beginning with the first billing cycle in January 2019 under its file and suspend authority, and revised customer rates became effective in January 2019. The Columbia Project has a projected annual revenue requirement of \$14 million and a projected in-service date in early 2020; the associated rate increase would take place with the first month's billing cycle after the Columbia Project goes into service. On April 2, 2019, the commission approved both solar projects as filed.

On March 25, 2019, Duke Energy Florida petitioned the FPSC to include in base rates the revenue requirements for its next wave of solar generation projects, the Trenton, Lake Placid and DeBary Solar Projects, as authorized by the 2017 Settlement. The annual retail revenue requirement for the Trenton and Lake Placid Projects is \$13 million and \$8 million, respectively, and were placed into service in December 2019 with rates taking effect in January 2020. The DeBary Project has a projected annual revenue requirement of \$11 million and a projected in-service date in the first half of 2020. The associated rate increase would take place with the first month's billing cycle after each solar generation project goes into service. On July 22, 2019, the FPSC issued an order approving Duke Energy Florida's request.

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Combined Notes to Consolidated Financial Statements – (Continued)

Crystal River Unit 3 Accelerated Decommissioning Filing

On May 29, 2019, Duke Energy Florida entered into a Decommissioning Services Agreement for the accelerated decommissioning of the Crystal River Unit 3 nuclear power station located in Citrus County, Florida, with ADP CR3, LLC and ADP SF1, LLC, each of which is a wholly owned subsidiary of Accelerated Decommissioning Partners, LLC, a joint venture between NorthStar Group Services, Inc. and Orano USA LLC. Closing of this agreement is contingent upon the approval of the NRC and FPSC. If approved, the decommissioning will

be accelerated starting in 2020 and continuing through 2027, rather than the expected time frame under SAFSTOR of starting in 2067 and ending in 2074. Duke Energy Florida expects that the assets of the Nuclear Decommissioning Trust Fund will be sufficient to cover the contract price. On July 10, 2019, Duke Energy Florida petitioned the FPSC for approval of the agreement. Duke Energy Florida cannot predict the outcome of this matter.

Duke Energy Ohio

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Ohio's Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2019	2018		
Regulatory Assets^(a)				
AROs – coal ash	\$ 16	\$ 20	Yes	(b)
Accrued pension and OPEB	155	146		(g)
Storm cost deferrals	7	4		2023
Deferred fuel and purchased power	1	2		2020
Hedge costs deferrals	6	5		(b)
DSM/EE	2	10	(f)	(e)
AMI	40	46		(b)
PISCC and deferred operating expenses ^(c)	17	17	Yes	2083
Vacation accrual	5	5		2020
MGP	102	99		(b)
Deferred pipeline integrity costs	17	14	Yes	(b)
East Bend deferrals	44	47	Yes	(b)
Transmission expansion obligation	40	43		(e)
Grid modernization	28	31	Yes	(b) (c)
Other	118	75		(b)
Total regulatory assets	598	564		
Less: current portion	49	33		
Total noncurrent regulatory assets	\$ 549	\$ 531		
Regulatory Liabilities^(a)				
Net regulatory liability related to income taxes	\$ 654	\$ 678		(b)
Costs of removal	86	126		(d)
Accrued pension and OPEB	16	18		(g)
Other	71	75		(b)
Total regulatory liabilities	827	897		
Less: current portion	64	57		
Total noncurrent regulatory liabilities	\$ 763	\$ 840		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Included in rate base.
(d) Recovery over the life of the associated assets.
(e) Recovered via a rider mechanism.
(f) Includes incentives on DSM/EE investments.
(g) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 23 for additional detail.

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Combined Notes to Consolidated Financial Statements – (Continued)

2017 Electric Security Plan Filing

On June 1, 2017, Duke Energy Ohio filed with the PUCO a request for a standard service offer in the form of an Electric Security Plan (ESP). On February 15, 2018, the procedural schedule was suspended to facilitate ongoing settlement discussions. On April 13, 2018, Duke Energy Ohio filed a Motion to consolidate this proceeding with several other cases pending before the PUCO, including, but not limited to, its Electric Base Rate Case. Additionally, on April 13, 2018, Duke Energy Ohio, along with certain intervenors, filed a Stipulation and Recommendation (Stipulation) with the PUCO resolving certain issues in this proceeding. The term of the ESP would be from June 1, 2018, to May 31, 2025, and included continuation of market-based customer rates through competitive procurement processes for generation, continuation and expansion of existing rider mechanisms and proposed new rider mechanisms relating to regulatory mandates, costs incurred to enhance the customer experience and transform the grid and a service reliability rider for vegetation management. The Stipulation established a regulatory model for the next seven years via the approval of the ESP and continued the current model for procuring supply for non-shopping customers, including recovery mechanisms. On December 19, 2018, the PUCO approved the Stipulation without material modification. Several parties, including the OCC, filed applications for rehearing. On February 6, 2019, the PUCO granted the parties rehearing. The PUCO issued its Second Entry on Rehearing on July 17, 2019, upholding its December 19, 2018, order and denying all assignments of error raised by the non-stipulating parties. On October 11, 2019, the OCC filed its Third Application for Rehearing arguing the PUCO erred in finding OCC's Second Application for Rehearing as improper. Duke Energy Ohio filed its Memorandum Contra on October 21, 2019. The PUCO denied OCC's Third Application for Rehearing as a matter of law. On September 13, 2019, Interstate Gas Supply/Retail Supply Association filed appeals to the Ohio Supreme Court claiming the PUCO's order was in error because it approved unsupported charges to competitive suppliers and cost subsidies shopping customers pay for non-shopping customers. On September 16, 2019, the OCC filed an appeal challenging the PUCO's approval of OVEC recovery through Rider PSR alleging the FPA pre-empts the commission's jurisdiction and that the record does not support finding that Rider PSR results in a limitation on shopping. Appellant briefs were filed on January 6, 2020. Appellee briefs will be due March 16, 2020. Duke Energy Ohio cannot predict the outcome of this matter.

Electric Base Rate Case

Duke Energy Ohio filed with the PUCO an electric distribution base rate case application and supporting testimony in March 2017. Duke Energy Ohio requested an estimated annual increase of approximately \$15 million and a return on equity of 10.4%. The application also included requests to continue certain current riders and establish new riders. On September 26, 2017, the PUCO staff filed a report recommending a revenue decrease between approximately \$18 million and \$29 million and a return on equity between 9.22% and 10.24%. On April 13, 2018, Duke Energy Ohio filed a Motion to consolidate this proceeding with several other cases pending before the PUCO. On April 13, 2018, Duke Energy Ohio, along with certain intervenors, filed the Stipulation with the PUCO resolving numerous issues including those in this base rate proceeding. Major components of the Stipulation related to the base distribution rate case included a \$19 million decrease in annual base distribution revenue with a return on equity unchanged from the current rate of 9.84% based upon a capital structure of 50.75% equity and 49.25% debt. Upon approval of new rates, Duke Energy Ohio's rider for recovering its initial SmartGrid implementation ended as these costs would be recovered through base rates. The Stipulation also renewed 14 existing riders, some of which

were included in the company's ESP, and added two new riders including the Enhanced Service Reliability Rider to recover vegetation management costs not included in base rates, up to \$10 million per year (operation and maintenance only) and the PowerForward Rider to recover costs incurred to enhance the customer experience and further transform the grid (operation and maintenance and capital). In addition to the changes in revenue attributable to the Stipulation, Duke Energy Ohio's capital-related riders, including the Distribution Capital Investments Rider, began to reflect the lower federal income tax rate associated with the Tax Act with updates to customers' bills beginning April 1, 2018. This change reduced electric revenue by approximately \$20 million on an annualized basis. On December 19, 2018, the PUCO approved the Stipulation without material modification. New base rates were implemented effective January 2, 2019. Several parties including the OCC filed applications for rehearing. On February 6, 2019, the PUCO granted the parties rehearing. The PUCO issued its Second Entry on Rehearing on July 17, 2019, upholding its December 19, 2018, order and denying all assignments of error raised by the non-stipulating parties. On October 11, 2019, the OCC filed its Third Application for Rehearing arguing the PUCO erred in finding OCC's Second Application for Rehearing as improper. Duke Energy Ohio filed its Memorandum Contra on October 21, 2019. The PUCO denied OCC's Third Application for Rehearing as a matter of law. On September 13, 2019, Interstate Gas Supply/Retail Supply Association filed appeals to the Ohio Supreme Court claiming the PUCO's order was in error because it approved unsupported charges to competitive suppliers and cost subsidies shopping customers pay for non-shopping customers. On September 16, 2019, the OCC filed an appeal challenging the PUCO's approval of OVEC recovery through Rider PSR alleging the FPA pre-empts the commission's jurisdiction and that the record does not support finding that Rider PSR results in a limitation on shopping. Appellant briefs were filed on January 6, 2020. Appellee briefs will be due March 16, 2020. Duke Energy Ohio cannot predict the outcome of this matter.

Ohio Valley Electric Corporation

On March 31, 2017, Duke Energy Ohio filed for approval to adjust its existing Rider PSR to pass through net costs related to its contractual entitlement to capacity and energy from the generating assets owned by OVEC. Duke Energy Ohio sought deferral authority for net costs incurred from April 1, 2017, until the new rates under Rider PSR were put into effect. On April 13, 2018, Duke Energy Ohio filed a Motion to consolidate this proceeding with several other cases currently pending before the PUCO. Also, on April 13, 2018, Duke Energy Ohio, along with certain intervenors, filed a Stipulation with the PUCO resolving numerous issues including those related to Rider PSR. The Stipulation activated Rider PSR for recovery of net costs incurred from January 1, 2018, through May 2025. On December 19, 2018, the PUCO approved the Stipulation without material modification. The PSR rider became effective April 1, 2019. Several parties, including the OCC, filed applications for rehearing. On February 6, 2019, the PUCO granted the parties rehearing. The PUCO issued its Second Entry on Rehearing on July 17, 2019, upholding its December 19, 2018, order and denying all assignments of error raised by the non-stipulating parties. On October 11, 2019, the OCC filed its Third Application for Rehearing arguing the PUCO erred in finding OCC's Second Application for Rehearing as improper. Duke Energy Ohio filed its Memorandum Contra on October 21, 2019. The PUCO denied OCC's Third Application for Rehearing as a matter of law. On September 13, 2019, Interstate Gas Supply/Retail Supply Association filed appeals to the Ohio Supreme Court claiming the PUCO's order was in error because it approved unsupported charges to competitive suppliers and cost subsidies shopping customers pay for non-shopping customers. On September 16, 2019, the OCC filed an appeal challenging the PUCO's

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Combined Notes to Consolidated Financial Statements – (Continued)

approval of OVEC recovery through Rider PSR alleging the FPA pre-empts the commission's jurisdiction and that the record does not support finding that Rider PSR results in a limitation on shopping. Appellant briefs were filed on January 6, 2020. Appellee briefs will be due March 16, 2020. Duke Energy Ohio cannot predict the outcome of this matter.

On July 23, 2019, an Ohio bill was signed into law that became effective January 1, 2020. Among other things, the bill allows for recovery of prudently incurred costs, net of any revenues, for Ohio investor-owned utilities that are participants under the OVEC power agreement. The recovery shall be through a non-bypassable rider that is to replace any existing recovery mechanism approved by the PUCO and will remain in place through 2030. The amounts recoverable from customers will be subject to an annual cap, with incremental costs that exceed such cap eligible for deferral and recovery subject to review. See Note 18 for additional discussion of Duke Energy Ohio's ownership interest in OVEC.

Tax Act – Ohio

On July 25, 2018, Duke Energy Ohio filed an application to establish a new rider to implement the benefits of the Tax Act for electric distribution customers. The new rider will flow through to customers the benefit of the lower statutory federal tax rate from 35% to 21% since January 1, 2018, all future benefits of the lower tax rates and a full refund of deferred income taxes collected at the higher tax rates in prior years. Deferred income taxes subject to normalization rules will be refunded consistent with federal law and deferred income taxes not subject to normalization rules will be refunded over a 10-year period. Duke Energy Ohio's transmission rates reflect lower federal income tax but guidance from FERC on amortization of both protected and unprotected transmission-related EDITs is still pending. On October 24, 2018, the PUCO issued a Finding and Order that, among other things, directed all utilities over which the commission has ratemaking authority to file an application to pass the benefits of the Tax Act to customers by January 1, 2019, unless otherwise exempted or directed by the PUCO. Duke Energy Ohio's July 25, 2018, filing for electric distribution operations is consistent with the commission's October 24, 2018, Finding and Order and no further action is needed. On February 20, 2019, the PUCO approved the application without material modification. Rates became effective March 1, 2019.

On December 21, 2018, Duke Energy Ohio filed an application to change its base rates and establish a new rider to implement the benefits of the Tax Act for natural gas customers. Duke Energy Ohio requested commission approval to implement the changes and rider effective April 1, 2019. The new rider will flow through to customers the benefit of the lower statutory federal tax rate from 35% to 21% since January 1, 2018, all future benefits of the lower tax rates and a full refund of deferred income taxes collected at the higher tax rates in prior years. Deferred income taxes subject to normalization rules will be refunded consistent with federal law and deferred income taxes not subject to normalization rules will be refunded over a 10-year period. The PUCO established a procedural schedule and testimony was filed on July 31, 2019. An evidentiary hearing occurred on August 7, 2019. Initial briefs were filed on September 11, 2019. Reply briefs were filed on September 25, 2019. Duke Energy Ohio cannot predict the outcome of this matter.

Energy Efficiency Cost Recovery

On March 28, 2014, Duke Energy Ohio filed an application for recovery of program costs, lost distribution revenue and performance incentives related to its energy efficiency and peak demand reduction programs. These programs are undertaken to comply with environmental mandates set forth in Ohio law. The PUCO approved Duke Energy Ohio's application but found that Duke Energy Ohio

was not permitted to use banked energy savings from previous years in order to calculate the amount of allowed incentive. This conclusion represented a change to the cost recovery mechanism that had been agreed upon by intervenors and approved by the PUCO in previous cases. The PUCO granted the applications for rehearing filed by Duke Energy Ohio and an intervenor. On January 6, 2016, Duke Energy Ohio and the PUCO Staff entered into a stipulation, pending the PUCO's approval, to resolve issues related to performance incentives and the PUCO Staff audit of 2013 costs, among other issues. In December 2015, based upon the stipulation, Duke Energy Ohio re-established approximately \$20 million of the revenues that had been previously reversed. On October 26, 2016, the PUCO issued an order approving the stipulation without modification. In December 2016, the PUCO granted the intervenors request for rehearing for the purpose of further review. On April 10, 2019, the PUCO issued an Entry on Rehearing denying the rehearing applications.

On June 15, 2016, Duke Energy Ohio filed an application for approval of a three-year energy efficiency and peak demand reduction portfolio of programs. A stipulation and modified stipulation were filed on December 22, 2016, and January 27, 2017, respectively. Under the terms of the stipulations, which included support for deferral authority of all costs and a cap on shared savings incentives, Duke Energy Ohio has offered its energy efficiency and peak demand reduction programs throughout 2017. On February 3, 2017, Duke Energy Ohio filed for deferral authority of its costs incurred in 2017 in respect of its proposed energy efficiency and peak demand reduction portfolio. On September 27, 2017, the PUCO issued an order approving a modified stipulation. The modifications impose an annual cap of approximately \$38 million on program costs and shared savings incentives combined, but allowed for Duke Energy Ohio to file for a waiver of costs in excess of the cap in 2017. The PUCO approved the waiver request for 2017 up to a total cost of \$56 million. On November 21, 2017, the PUCO granted Duke Energy Ohio's and intervenor's applications for rehearing of the September 27, 2017, order. On January 10, 2018, the PUCO denied the OCC's application for rehearing of the PUCO order granting Duke Energy Ohio's waiver request; however, a decision on Duke Energy Ohio's application for rehearing remains pending. On October 15, 2019, the Ohio Supreme Court issued an Opinion regarding a similar cap on energy efficiency imposed by the PUCO on Ohio Edison Company finding the PUCO lacked statutory authority to impose a cap on cost recovery. On December 9, 2019, and in response to recent changes to Ohio Law, the OCC filed a motion to eliminate shared savings from Duke Energy Ohio's energy efficiency calculation beginning in 2020. Duke Energy Ohio filed a memorandum contra and a notice of additional authority on December 16, 2019, arguing OCC's interpretation is incorrect and that the commission should amend its September 27, 2017 order to comply with recent precedent. Duke Energy Ohio cannot predict the outcome of this matter.

2014 Electric Security Plan

On May 30, 2018, the PUCO approved an extension of Duke Energy Ohio's then-current ESP, including all terms and conditions thereof, excluding an extension of Duke Energy Ohio's Distribution Capital Investment Rider. Following rehearing, on July 25, 2018, the PUCO granted the request and allowed a continuing cap on recovery under Rider DCI. The orders were upheld on rehearing requested by the Ohio Manufacturers' Association (OMA) and OCC. The time period for parties to file for rehearing or appeal has expired.

In 2018, the OMA and OCC filed separate appeals of PUCO's approval of Duke Energy Ohio's ESP with the Ohio Supreme Court, challenging PUCO's approval of Duke Energy Ohio's Rider PSR as a placeholder and its Rider DCI to recover incremental revenue requirement for distribution capital since Duke Energy Ohio's last base rate case. The Ohio Supreme Court issued an order on March 13, 2019, for the appellants to show cause why the appeals should not

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Combined Notes to Consolidated Financial Statements – (Continued)

be dismissed as moot in light of the commission's approval of Duke Energy Ohio's current ESP. The OCC and OMA made the requested filings on March 20, 2019, and Duke Energy Ohio filed its response on March 27, 2019. Subsequent to OCC and OMA making the requested filings, the Ohio Supreme Court dismissed the appeals as moot on May 8, 2019.

Natural Gas Pipeline Extension

Duke Energy Ohio is proposing to install a new natural gas pipeline (the Central Corridor Project) in its Ohio service territory to increase system reliability and enable the retirement of older infrastructure. Duke Energy Ohio currently estimates the pipeline development costs and construction activities will range from \$163 million to \$245 million in direct costs (excluding overheads and AFUDC). On January 20, 2017, Duke Energy Ohio filed an amended application with the Ohio Power Siting Board (OPSB) for approval of one of two proposed routes. A public hearing was held on June 15, 2017. In April 2018, Duke Energy Ohio filed a motion with OPSB to establish a procedural schedule and filed supplemental information supporting its application. On December 18, 2018, the OPSB established a procedural schedule that included a local public hearing on March 21, 2019. An evidentiary hearing began on April 9, 2019, and concluded on April 11, 2019. Briefs were filed on May 13, 2019, and reply briefs were filed on June 10, 2019. On November 21, 2019, the OPSB approved Duke Energy Ohio's application subject to 41 conditions on construction. Applications for rehearing were filed by several stakeholders on December 23, 2019, arguing that the OPSB approval was incorrect. Duke Energy Ohio filed a memorandum contra on January 2, 2020. On January 17, 2020, the OPSB granted rehearing for the purpose of further consideration. Construction of the pipeline extension is expected to be completed before the 2021/2022 winter season. Duke Energy Ohio cannot predict the outcome of this matter.

2012 Natural Gas Rate Case/MGP Cost Recovery

As part of its 2012 natural gas base rate case, Duke Energy Ohio has approval to defer and recover costs related to environmental remediation at two sites (East End and West End) that housed former MGP operations. Duke Energy Ohio has made annual applications for recovery of these deferred costs. Duke Energy Ohio has collected approximately \$55 million in environmental remediation costs between 2009 through 2012 through a separate rider, Rider MGP, which is currently suspended. Duke Energy Ohio has made annual applications with the PUCO to recover its incremental remediation costs consistent with the PUCO's directive in Duke Energy Ohio's 2012 natural gas rate case. To date, the PUCO has not ruled on Duke Energy Ohio's annual applications for the calendar years 2013 through 2017. On September 28, 2018, the staff of the PUCO issued a report recommending a disallowance of approximately \$12 million of the \$26 million in MGP remediation costs incurred between 2013 through 2017 that staff believes are not eligible for recovery. Staff interprets the PUCO's 2012 Order granting Duke Energy Ohio recovery of MGP remediation as limiting the recovery to work directly on the East End and West End sites. On October 30, 2018, Duke Energy Ohio filed reply comments objecting to the staff's recommendations and explaining, among other things, the obligation Duke Energy Ohio has under Ohio law to remediate all areas impacted by the former MGPs and not just physical property that housed the former plants and equipment. To date, the PUCO has not ruled on Duke Energy Ohio's applications. On March 29, 2019, Duke Energy Ohio filed its annual application to recover incremental remediation expense for the calendar year 2018 seeking recovery of approximately \$20 million in remediation costs. On July 12, 2019, the staff recommended a disallowance of approximately \$11 million for work that staff believes occurred in areas not authorized for recovery. Additionally, staff recommended that any discussion pertaining to

Duke Energy Ohio's recovery of ongoing MGP costs should be directly tied to or netted against insurance proceeds collected by Duke Energy Ohio. An evidentiary hearing began on November 18, 2019, and concluded November 21, 2019. Initial briefs were filed on January 17, 2020, and reply briefs were filed on February 14, 2020. Duke Energy Ohio cannot predict the outcome of this matter.

The 2012 PUCO order also contained conditional deadlines for completing the MGP environmental investigation and remediation costs at the MGP sites. Subsequent to the order, the deadline was extended to December 31, 2019. On May 10, 2019, Duke Energy Ohio filed an application requesting a continuation of its existing deferral authority for MGP remediation and investigation that must occur after December 31, 2019. On September 13, 2019, intervenor comments were filed opposing Duke Energy Ohio's request for continuation of existing deferral authority and on October 2, 2019, Duke Energy Ohio filed reply comments. Duke Energy Ohio cannot predict the outcome of this matter.

Duke Energy Kentucky Natural Gas Base Rate Case

On August 31, 2018, Duke Energy Kentucky filed an application with the KPSC requesting an increase in natural gas base rates of approximately \$11 million, an approximate 11.1% average increase across all customer classes. The increase was net of approximately \$5 million in annual savings as a result of the Tax Act. The drivers for this case were capital invested since Duke Energy Kentucky's last rate case in 2009. Duke Energy Kentucky also sought implementation of a Weather Normalization Adjustment Mechanism, amortization of regulatory assets and to implement the impacts of the Tax Act, prospectively. On January 30, 2019, Duke Energy Kentucky entered into a settlement agreement with the Attorney General of Kentucky, the only intervenor in the case. The settlement provided for an approximate \$7 million increase in natural gas base revenue, a return on equity of 9.7% and approval of the proposed Weather Normalization Mechanism. A hearing was held on February 5, 2019. The commission issued its order approving the settlement without material modification on March 27, 2019. Revised customer rates were effective April 1, 2019.

Duke Energy Kentucky Electric Base Rate Case

On September 3, 2019, Duke Energy Kentucky filed a rate case with the KPSC requesting an increase in electric base rates of approximately \$46 million, which represents an approximate 12.5% increase across all customer classes. The request for rate increase is driven by increased investment in utility plant since the last electric base rate case in 2017. Duke Energy Kentucky seeks to implement a Storm Deferral Mechanism that will enable Duke Energy Kentucky to defer actual costs incurred for major storms that are over or under amounts in base rates. In response to large customers' desire to have access to renewable resources, Duke Energy Kentucky is proposing a Green Source Advantage tariff designed for those large customers that wish to invest in renewable energy resources to meet sustainability goals. Duke Energy Kentucky is proposing an electric vehicle (EV) infrastructure pilot and modest incentives to assist customers in investing in EV technologies. Additionally, Duke Energy Kentucky is proposing to build an approximate 3.4 MW distribution battery energy storage system to be attached to Duke Energy Kentucky's distribution system providing frequency regulation and enhanced reliability to Kentucky customers. The commission issued a procedural schedule with two rounds of discovery and opportunities for intervenor and rebuttal testimony. The Kentucky Attorney General filed its testimony recommending an increase of approximately \$26 million. On January 31, 2020, Duke Energy Kentucky filed rebuttal testimony updating its rate increase calculations to approximately \$44 million. Hearings began on February 19, 2020. Duke Energy Kentucky anticipates that rates will go into effect in the second quarter of 2020. Duke Energy Kentucky cannot predict the outcome of this matter.

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Combined Notes to Consolidated Financial Statements – (Continued)

Regional Transmission Organization Realignment

Duke Energy Ohio, including Duke Energy Kentucky, transferred control of its transmission assets from MISO to PJM, effective December 31, 2011. The PUCO approved a settlement related to Duke Energy Ohio's recovery of certain costs of the RTO realignment via a non-bypassable rider. Duke Energy Ohio is allowed to recover all MISO Transmission Expansion Planning (MTEP) costs directly or indirectly charged to Ohio customers. The KPSC also approved a request to effect the RTO realignment, subject to a commitment not to seek

double recovery in a future rate case of the transmission expansion fees that may be charged by MISO and PJM in the same period or overlapping periods.

The following table provides a reconciliation of the beginning and ending balance of Duke Energy Ohio's recorded liability for its exit obligation and share of MTEP costs recorded in Other within Current Liabilities and Other Noncurrent Liabilities on the Consolidated Balance Sheets. The retail portions of MTEP costs billed by MISO are recovered by Duke Energy Ohio through a non-bypassable rider. As of December 31, 2019, and 2018, \$40 million and \$43 million, respectively, are recorded in Regulatory assets on Duke Energy Ohio's Consolidated Balance Sheets.

(in millions)	December 31, 2018	Provisions/ Adjustments	Cash Reductions	December 31, 2019
Duke Energy Ohio	\$ 58	\$ —	\$ (4)	\$ 54

Duke Energy Indiana

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Indiana's Consolidated Balance Sheets.

(in millions)	December 31,		Earnings/Pays a Return	Recovery/Refund Period Ends
	2019	2018		
Regulatory Assets^(a)				
AROs – coal ash	\$ 529	\$ 450		(b)
Accrued pension and OPEB	243	222		(f)
Deferred fuel and purchased power	—	40		2020
Hedge costs deferrals	23	24		(b)
DSM/EE	—	14	(e)	(e)
AMI ^(c)	18	18	Yes	(b)
Retired generation facilities ^(c)	49	57	Yes	2026
PISCC and deferred operating expenses ^(c)	246	233	Yes	(b)
Vacation accrual	12	11		2020
Other	52	88		(b)
Total regulatory assets	1,172	1,157		
Less: current portion	90	175		
Total noncurrent regulatory assets	\$ 1,082	\$ 982		
Regulatory Liabilities^(a)				
Net regulatory liability related to income taxes	\$ 1,008	\$ 1,009		(b)
Costs of removal	599	628		(d)
Accrued pension and OPEB	90	67		(f)
Amounts to be refunded to customers	—	1		2020
Other	43	42		(b)
Total regulatory liabilities	1,740	1,747		
Less: current portion	55	25		
Total noncurrent regulatory liabilities	\$ 1,685	\$ 1,722		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Included in rate base.
(d) Refunded over the life of the associated assets.
(e) Includes incentives on DSM/EE investments and is recovered through a tracker mechanism over a two-year period.
(f) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 23 for additional detail.

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Combined Notes to Consolidated Financial Statements – (Continued)

2019 Indiana Rate Case

On July 2, 2019, Duke Energy Indiana filed a general rate case with the IURC, its first general rate case in Indiana in 16 years, for a rate increase for retail customers of approximately \$395 million. The request for rate increase is driven by strategic investments to generate cleaner electricity, improve reliability and serve a growing customer base. The request is premised upon a Duke Energy Indiana rate base of \$10.2 billion as of December 31, 2018, and adjusted for projected changes through December 31, 2020. On September 9, 2019, Duke Energy Indiana revised its revenue request from \$395 million to \$393 million and filed updated testimony for the Retail Rate Case. The updated filing reflects a clarification in the presentation of Utility Receipts Tax, a \$2 million reduction in the revenue requirement for revenues that will remain in riders and changes to allocation of revenue requirements within rate classes. The Utility Receipts Tax is currently embedded in base rates and rider rates. The proposed treatment is to include the Utility Receipts Tax as a line item on the customer bill rather than included in rates. The request is an approximate 15% increase in retail revenues and approximately 17% when including estimated Utility Receipts Tax. The rebuttal case, filed on December 4, 2019, updated the requested revenue requirement to result in a 15.6% or \$396 million average

retail rate increase, including the impacts of the Utility Receipts Tax. The commission determined to take two issues out of the rate case and place them in separate subdocket proceedings due to the complexity of the rate case. The commission moved the request for electric transportation pilot and future coal ash recovery issues to separate subdockets. Coal ash expenditures prior to 2019 are still included in the rate case. Hearings concluded on February 7, 2020 and rates are expected to be effective by mid-2020. Duke Energy Indiana cannot predict the outcome of these matters.

Edwardsport IGCC Plant

On September 20, 2018, Duke Energy Indiana, the Indiana Office of Utility Consumer Counselor, the Duke Industrial Group and Nucor Steel – Indiana entered into a settlement agreement to resolve IGCC ratemaking issues for calendar years 2018 and 2019. The agreement will remain in effect until new rates are established in Duke Energy Indiana's next base rate case, which was filed on July 2, 2019, with rates to be effective in mid-2020. An evidentiary hearing was held in December 2018, and on June 5, 2019, the IURC issued an order approving the 2018 Settlement Agreement.

Piedmont

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Piedmont's Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2019	2018		
Regulatory Assets^(a)				
AROs – nuclear and other	\$ 16	\$ 19		(d)
Accrued pension and OPEB ^(c)	90	99	Yes	(f)
Vacation accrual	12	12		
Derivatives – natural gas supply contracts ^(a)	117	141		
Deferred pipeline integrity costs ^(c)	62	51	Yes	(b)
Amounts due from customers	36	24	Yes	(b)
Other	30	11		(b)
Total regulatory assets	363	357		
Less: current portion	73	54		
Total noncurrent regulatory assets	\$ 290	\$ 303		
Regulatory Liabilities^(a)				
Net regulatory liability related to income taxes	\$ 555	\$ 579		(b)
Costs of removal	574	564		(d)
Accrued pension and OPEB ^(c)	3	1	Yes	(f)
Amounts to be refunded to customers	34	33	Yes	(b)
Other	46	41		(b)
Total regulatory liabilities	1,212	1,218		
Less: current portion	81	37		
Total noncurrent regulatory liabilities	\$ 1,131	\$ 1,181		

(a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.

(b) The expected recovery or refund period varies or has not been determined.

(c) Included in rate base.

(d) Recovery over the life of the associated assets.

(e) Balance will fluctuate with changes in the market. Current contracts extend into 2031.

(f) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 23 for additional detail.

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Combined Notes to Consolidated Financial Statements – (Continued)

North Carolina Integrity Management Rider Filing

On April 30, 2019, Piedmont filed a petition under the IMR mechanism to update rates, based on the eligible capital investments closed to integrity and safety projects over the six-month period ending March 31, 2019. The NCUC approved the petition on May 29, 2019, and rates became effective June 1, 2019. The effect of the update was an increase to annual revenues of approximately \$9 million. These revenues, along with eligible spending for the three months ended June 30, 2019, were subsequently included in base rates effective November 1, 2019, as part of the 2019 North Carolina Rate Case.

On October 31, 2019, Piedmont filed a petition under the IMR mechanism to update rates, based on the eligible capital investments closed to integrity and safety projects over the three-month period ending September 30, 2019. The NCUC approved the petition on December 3, 2019, and rates became effective December 1, 2019. The effect of the update was an increase to annual revenues of approximately \$11 million.

Tennessee Integrity Management Rider Filing

In November 2019, Piedmont filed a petition with the TPUC under the IMR mechanism to collect an additional \$4 million in annual revenues, effective January 2020, based on the eligible capital spending on integrity and safety projects over the 12-month period ending October 31, 2019. A procedural schedule has not yet been set for this matter. Piedmont cannot predict the outcome of this matter.

2019 North Carolina Rate Case

On April 1, 2019, Piedmont filed an application with the NCUC, its first general rate case in North Carolina in six years, for a rate increase for retail customers of approximately \$83 million, which represents an approximate 9% increase in retail revenues. The request for rate increase was driven by significant infrastructure upgrade investments (plant additions) since the last general rate case through June 30, 2019, offset by savings that customers will begin receiving due to federal and state tax reform. Approximately half of the plant additions being included in rate base are categories of plant investment not covered under the IMR mechanism, which was originally approved as part of the 2013 North Carolina Rate Case.

On August 13, 2019, Piedmont, the Public Staff, and two groups representing industrial customers filed an Agreement and Stipulation Settlement resolving issues in the base rate proceeding, which included a return on equity of 9.7% and a capital structure of 52% equity and 48% debt. The North Carolina Attorney General's Office did not support the settlement. Other major components of the Stipulation included:

- An annual increase in revenues of \$109 million before consideration of riders associated with federal and state tax reform;
- A decrease through a rider mechanism of \$23 million per year to return unprotected federal EDIT over a five-year period and deferred revenues related to the federal rate reduction of \$37 million to be returned over one year;
- A decrease through a rider mechanism of \$21 million per year related to reductions in the North Carolina state income tax rate to be returned over a three-year period;
- An overall cap on net revenue increase of \$83 million. This will impact Piedmont beginning November 1, 2022, only if the company does not file another general rate case in the interim;

- Continuation of the IMR mechanism; and

- Establishment of a new deferral mechanism for certain Distribution Integrity Management Program (DIMP) operations and maintenance expenses incurred effective November 1, 2019, and thereafter.

An evidentiary hearing began on August 19, 2019. On October 31, 2019, the NCUC approved the Stipulation and the revised customer rates were effective November 1, 2019.

OTHER REGULATORY MATTERS

Atlantic Coast Pipeline, LLC

On September 2, 2014, Duke Energy, Dominion Energy, Inc. (Dominion), Piedmont and Southern Company Gas announced the formation of Atlantic Coast Pipeline, LLC (ACP) to build and own the proposed Atlantic Coast Pipeline (ACP pipeline), an approximately 600-mile interstate natural gas pipeline running from West Virginia to North Carolina. The ACP pipeline is designed to meet, in part, the needs identified by Duke Energy Carolinas, Duke Energy Progress and Piedmont. Dominion will be responsible for building and operating the ACP pipeline and holds a leading ownership percentage in ACP of 48%. Duke Energy owns a 47% interest, which is accounted for as an equity method investment through its Gas Utilities and Infrastructure segment. Southern Company Gas maintains a 5% interest. See Notes 13 and 18 for additional information related to Duke Energy's ownership interest. Duke Energy Carolinas, Duke Energy Progress and Piedmont, among others, will be customers of the pipeline. Purchases will be made under several 20-year supply contracts, subject to state regulatory approval.

In 2018, the FERC issued a series of Notices to Proceed, which authorized the project to begin certain construction-related activities along the pipeline route, including supply header and compressors. On May 11, 2018, and October 19, 2018, FERC issued Notices to Proceed allowing full construction activities in all areas of West Virginia except in the Monongahela National Forest. On July 24, 2018, FERC issued a Notice to Proceed allowing full construction activities along the project route in North Carolina. On October 19, 2018, the conditions to effectiveness of the Virginia 401 water quality certification were satisfied and, following receipt of the Virginia 401 certification, ACP filed a request for FERC to issue a Notice to Proceed with full construction activities in Virginia. Due to legal challenges not directly related to the request for a Notice to Proceed in Virginia, this request is still pending.

ACP is the subject of challenges in state and federal courts and agencies, including, among others, challenges of the project's biological opinion (BiOp) and incidental take statement (ITS), crossings of the Blue Ridge Parkway, the Appalachian Trail, and the Monongahela and George Washington National Forests, the project's U.S. Army Corps of Engineers (USACE) 404 permit, the project's air permit for a compressor station at Buckingham, Virginia, the FERC Environmental Impact Statement order and the FERC order approving the Certificate of Public Convenience and Necessity. Each of these challenges alleges non-compliance on the part of federal and state permitting authorities and adverse ecological consequences if the project is permitted to proceed. Since December 2018, notable developments in these challenges include a stay in December 2018 issued by the U.S. Court of Appeals for the Fourth Circuit (Fourth Circuit) and the same court's July 26, 2019, vacatur of the project's BiOp and ITS (which stay and subsequent vacatur halted most project construction activity), a Fourth Circuit decision vacating the project's permits to cross the Monongahela and George Washington National Forests and the Appalachian Trail, the Fourth Circuit's remand to USACE of ACP's Huntington

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Combined Notes to Consolidated Financial Statements – (Continued)

District 404 verification, the Fourth Circuit's remand to the National Park Service of ACP's Blue Ridge Parkway right-of-way and the most recent vacatur of the air permit for a compressor station at Buckingham, Virginia. ACP is vigorously defending these challenges and coordinating with the federal and state authorities which are the direct parties to the challenges. The Solicitor General of the United States and ACP filed petitions for certiorari to the Supreme Court of the United States on June 25, 2019, regarding the Appalachian Trail crossing and certiorari was granted on October 4, 2019. The Supreme Court hearing is scheduled for February 24, 2020, and a ruling is expected in the second quarter of 2020. ACP is also evaluating possible legislative and other remedies to this issue.

In anticipation of the Fourth Circuit's vacatur of the BiOp and ITS, ACP and the FWS commenced work in mid-May of 2019 to set the basis for a reissued BiOp and ITS. On February 10, 2020, FERC issued a letter to FWS requesting the re-initiation of formal consultation in support of reissuing the BiOp and ITS. ACP continues coordinating and working with FWS and other parties in preparation for a reissuance of the BiOp and ITS.

ACP triggered the Adverse Government Actions (AGA) clause of its agreements with its customers in December 2019. Formal negotiations have commenced regarding pricing and construction timing, among other items, and are expected to be finalized in the first quarter of 2020. The results of these negotiations will directly impact the expected future cash flows of this project.

Given the legal challenges and ongoing discussions with customers, ACP expects mechanical completion of the full project in late 2021 with in-service likely in the first half of 2022.

The delays resulting from the legal challenges described above have also impacted the cost for the project. Project cost is approximately \$8 billion, excluding financing costs. This estimate is based on the current facts available around construction costs and timelines, and is subject to future changes as those facts develop. Abnormal weather, work delays (including delays due to judicial or regulatory action) and other conditions may result in cost or schedule modifications, a suspension of AFUDC for ACP and/or impairment charges potentially material to Duke Energy's cash flows, financial position and results of operations.

Duke Energy's investment in ACP was \$1.2 billion at December 31, 2019. Duke Energy evaluated this investment for impairment at December 31, 2019, and determined that fair value approximated carrying value and therefore no impairment was necessary. Duke Energy also has a guarantee agreement supporting its share of the ACP revolving credit facility. Duke Energy's maximum

exposure to loss under the terms of the guarantee is \$827 million, which represents 47% of the outstanding borrowings under the credit facility as of December 31, 2019. See Note 13 for additional information.

Constitution Pipeline Company, LLC

Duke Energy owned a 24% ownership interest in Constitution, which is accounted for as an equity method investment. Constitution was a natural gas pipeline project slated to transport natural gas supplies from the Marcellus supply region in northern Pennsylvania to major northeastern markets. The pipeline was to be constructed and operated by Williams Partners L.P., which had a 41% ownership share. The remaining interest was held by Cabot Oil and Gas Corporation and WGL Holdings, Inc. In December 2014, Constitution received approval from the FERC to construct and operate the proposed pipeline. However, since April 2016, Constitution had stopped construction and discontinued capitalization of future development costs due to permitting delays and adverse rulings by regulatory agencies and courts.

In late 2019, Constitution determined that its principal shipper would not agree to an amended precedent agreement. Without such an amendment, the project would no longer be viable and, as of February 5, 2020, the Constitution partners formally resolved to initiate the dissolution of Constitution, and to terminate the Constitution Pipeline project. In the fourth quarter of 2019, Duke Energy recorded an OTTI of \$25 million related to Constitution within Equity in earnings of unconsolidated affiliates on Duke Energy's Consolidated Statements of Income, resulting in the full write-down of Duke Energy's investment in Constitution. See Notes 13 and 18 for additional information related to ownership interest and carrying value of the investment.

Potential Coal Plant Retirements

The Subsidiary Registrants periodically file IRPs with their state regulatory commissions. The IRPs provide a view of forecasted energy needs over a long term (10 to 20 years) and options being considered to meet those needs. IRPs filed by the Subsidiary Registrants included planning assumptions to potentially retire certain coal-fired generating facilities in North Carolina and Indiana earlier than their current estimated useful lives. Duke Energy continues to evaluate the potential need to retire these coal-fired generating facilities earlier than the current estimated useful lives and plans to seek regulatory recovery for amounts that would not be otherwise recovered when any of these assets are retired.

The table below contains the net carrying value of generating facilities planned for retirement or included in recent IRPs as evaluated for potential retirement. Dollar amounts in the table below are included in Net property, plant and equipment on the Consolidated Balance Sheets as of December 31, 2019, and exclude capitalized asset retirement costs.

	Capacity (in MW)	Remaining Net Book Value (in millions)
Duke Energy Carolinas		
Allen Steam Station Units 1-3 ^(a)	\$ 585	\$ 152
Duke Energy Indiana		
Gallagher Units 2 and 4 ^(b)	280	114
Gibson Units 1-5 ^(c)	3,132	1,697
Cayuga Units 1-2 ^(c)	1,005	974
Total Duke Energy	\$ 5,002	\$ 2,937

(a) Duke Energy Carolinas will retire Allen Steam Station Units 1 through 3 by December 31, 2024, as part of the resolution of a lawsuit involving alleged New Source Review violations.

(b) Duke Energy Indiana committed to either retire or stop burning coal at Gallagher Units 2 and 4 by December 31, 2022, as part of the 2016 settlement of Edwardsport IGGC matters.

(c) On July 1, 2019, Duke Energy Indiana filed its 2018 IRP with the IURC. The 2018 IRP included scenarios evaluating the potential retirement of coal-fired generating units at Gibson and Cayuga. The rate case filed July 2, 2019, includes proposed depreciation rates reflecting retirement dates from 2026 to 2038.

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Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy continues to evaluate the potential need to retire generating facilities earlier than the current estimated useful lives, and plans to seek regulatory recovery, as necessary, for amounts that would not be otherwise recovered when any of these assets are retired. However, such recovery, including recovery of carrying costs on remaining book values, could be subject to future approvals and therefore cannot be assured.

Duke Energy Carolinas and Duke Energy Progress are evaluating the potential for coal-fired generating unit retirements with a net carrying value of approximately \$721 million and \$1.2 billion, respectively, included in Net property, plant and equipment on the Consolidated Balance Sheets as of December 31, 2019.

Refer to the “Western Carolinas Modernization Plan” discussion above for details of Duke Energy Progress’ planned retirements.

5. COMMITMENTS AND CONTINGENCIES

INSURANCE

General Insurance

The Duke Energy Registrants have insurance and reinsurance coverage either directly or through indemnification from Duke Energy’s captive insurance company, Bison, and its affiliates, consistent with companies engaged in similar commercial operations with similar type properties. The Duke Energy Registrants’ coverage includes (i) commercial general liability coverage for liabilities arising to third parties for bodily injury and property damage; (ii) workers’ compensation; (iii) automobile liability coverage; and (iv) property coverage for all real and personal property damage. Real and personal property damage coverage excludes electric transmission and distribution lines, but includes damages arising from boiler and machinery breakdowns, earthquakes, flood damage and extra expense, but not outage or replacement power coverage. All coverage is subject to certain deductibles or retentions, sublimits, exclusions, terms and conditions common for companies with similar types of operations. The Duke Energy Registrants self-insure their electric transmission and distribution lines against loss due to storm damage and other natural disasters. As discussed further in Note 4, Duke Energy Florida maintains a storm damage reserve and has a regulatory mechanism to recover the cost of named storms on an expedited basis.

The cost of the Duke Energy Registrants’ coverage can fluctuate from year to year reflecting claims history and conditions of the insurance and reinsurance markets.

In the event of a loss, terms and amounts of insurance and reinsurance available might not be adequate to cover claims and other expenses incurred. Uninsured losses and other expenses, to the extent not recovered by other sources, could have a material effect on the Duke Energy Registrants’ results of operations, cash flows or financial position. Each company is responsible to the extent losses may be excluded or exceed limits of the coverage available.

Nuclear Insurance

Duke Energy Carolinas owns and operates McGuire and Oconee and operates and has a partial ownership interest in Catawba. McGuire and Catawba each have two reactors. Oconee has three reactors. The other joint owners of Catawba reimburse Duke Energy Carolinas for certain expenses associated with nuclear insurance per the Catawba joint owner agreements.

Duke Energy Progress owns and operates Robinson, Brunswick and Harris. Robinson and Harris each have one reactor. Brunswick has two reactors.

Duke Energy Florida owns Crystal River Unit 3, which permanently ceased operation in 2013 and reached a SAFSTOR condition in January 2018 after the successful transfer of all used nuclear fuel assemblies to an on-site dry cask storage facility.

In the event of a loss, terms and amounts of insurance available might not be adequate to cover property damage and other expenses incurred. Uninsured losses and other expenses, to the extent not recovered by other sources, could

have a material effect on Duke Energy Carolinas’, Duke Energy Progress’ and Duke Energy Florida’s results of operations, cash flows or financial position. Each company is responsible to the extent losses may be excluded or exceed limits of the coverage available.

Nuclear Liability Coverage

The Price-Anderson Act requires owners of nuclear reactors to provide for public nuclear liability protection per nuclear incident up to a maximum total financial protection liability. The maximum total financial protection liability, which is approximately \$13.9 billion, is subject to change every five years for inflation and for the number of licensed reactors. Total nuclear liability coverage consists of a combination of private primary nuclear liability insurance coverage and a mandatory industry risk-sharing program to provide for excess nuclear liability coverage above the maximum reasonably available private primary coverage. The U.S. Congress could impose revenue-raising measures on the nuclear industry to pay claims.

Primary Liability Insurance

Duke Energy Carolinas and Duke Energy Progress have purchased the maximum reasonably available private primary nuclear liability insurance as required by law, which is \$450 million per station. Duke Energy Florida has purchased \$100 million primary nuclear liability insurance in compliance with the law.

Excess Liability Program

This program provides \$13.5 billion of coverage per incident through the Price-Anderson Act’s mandatory industrywide excess secondary financial protection program of risk pooling. This amount is the product of potential cumulative retrospective premium assessments of \$138 million times the current 98 licensed commercial nuclear reactors in the U.S. Under this program, licensees could be assessed retrospective premiums to compensate for public nuclear liability damages in the event of a nuclear incident at any licensed facility in the U.S. Retrospective premiums may be assessed at a rate not to exceed \$20.5 million per year per licensed reactor for each incident. The assessment may be subject to state premium taxes.

Nuclear Property and Accidental Outage Coverage

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are members of Nuclear Electric Insurance Limited (NEIL), an industry mutual insurance company, which provides property damage, nuclear accident decontamination and premature decommissioning insurance for each station for losses resulting from damage to its nuclear plants, either due to accidents or acts of terrorism. Additionally, NEIL provides accidental outage coverage for losses in the event of a major accidental outage at an insured nuclear station.

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Combined Notes to Consolidated Financial Statements – (Continued)

Pursuant to regulations of the NRC, each company's property damage insurance policies provide that all proceeds from such insurance be applied, first, to place the plant in a safe and stable condition after a qualifying accident and second, to decontaminate the plant before any proceeds can be used for decommissioning, plant repair or restoration.

Losses resulting from acts of terrorism are covered as common occurrences, such that if terrorist acts occur against one or more commercial nuclear power plants insured by NEIL within a 12-month period, they would be treated as one event and the owners of the plants where the act occurred would share one full limit of liability. The full limit of liability is currently \$3.2 billion. NEIL sublimits the total aggregate for all of their policies for non-nuclear terrorist events to approximately \$1.8 billion.

Each nuclear facility has accident property damage, nuclear accident decontamination and premature decommissioning liability insurance from NEIL with limits of \$1.5 billion, except for Crystal River Unit 3. Crystal River Unit 3's limit is \$50 million and is on an actual cash value basis. All nuclear facilities except for Catawba and Crystal River Unit 3 also share an additional \$1.25 billion nuclear accident insurance limit above their dedicated underlying limit. This shared additional excess limit is not subject to reinstatement in the event of a loss. Catawba has a dedicated \$1.25 billion of additional nuclear accident insurance limit above its dedicated underlying limit. Catawba and Oconee also have an additional \$750 million of non-nuclear accident property damage limit. All coverages are subject to sublimits and significant deductibles.

NEIL's Accidental Outage policy provides some coverage, similar to business interruption, for losses in the event of a major accident property damage outage of a nuclear unit. Coverage is provided on a weekly limit basis after a significant waiting period deductible and at 100% of the applicable weekly limits for 52 weeks and 80% of the applicable weekly limits for up to the next 110 weeks. Coverage is provided until these applicable weekly periods are met, where the accidental outage policy limit will not exceed \$490 million for McGuire and Catawba, \$462 million for Brunswick and Harris, \$406 million for Oconee and \$364 million for Robinson. NEIL sublimits the accidental outage recovery up to the first 104 weeks of coverage not to exceed \$328 million from non-nuclear accidental property damage. Coverage amounts decrease in the event more than one unit at a station is out of service due to a common accident. All coverages are subject to sublimits and significant deductibles.

Potential Retroactive Premium Assessments

In the event of NEIL losses, NEIL's board of directors may assess member companies' retroactive premiums of amounts up to 10 times their

The following tables contain information regarding reserves for probable and estimable costs related to the various environmental sites. These reserves are recorded in Accounts payable within Current Liabilities and Other within Other Noncurrent Liabilities on the Consolidated Balance Sheets.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Balance at December 31, 2016	\$ 98	\$ 10	\$ 18	\$ 3	\$ 14	\$ 59	\$ 10	\$ 1
Provisions/adjustments	8	3	3	2	2	3	(4)	1
Cash reductions	(25)	(3)	(6)	(2)	(4)	(15)	(1)	—
Balance at December 31, 2017	81	10	15	3	12	47	5	2
Provisions/adjustments	26	3	2	3	(2)	21	1	1
Cash reductions	(30)	(2)	(6)	(2)	(4)	(20)	(1)	(1)
Balance at December 31, 2018	77	11	11	4	6	48	5	2
Provisions/adjustments	33	6	9	2	5	11	—	7
Cash reductions	(52)	(6)	(4)	(2)	(2)	(40)	(1)	(1)
Balance at December 31, 2019	\$ 58	\$ 11	\$ 16	\$ 4	\$ 9	\$ 19	\$ 4	\$ 8

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Combined Notes to Consolidated Financial Statements – (Continued)

Additional losses in excess of recorded reserves that could be incurred for the stages of investigation, remediation and monitoring for environmental sites that have been evaluated at this time are not material except as presented in the table below.

(in millions)

Duke Energy	\$ 59
Duke Energy Carolinas	11
Duke Energy Ohio	42
Piedmont	2

LITIGATION

Duke Energy Carolinas and Duke Energy Progress

NCDEQ Closure Litigation

The Coal Ash Act requires CCR surface impoundments in North Carolina to be closed, with the closure method and timing based on a risk ranking classification determined by legislation or state regulators. The NCDEQ previously classified the impoundments at Allen, Belews Creek, Rogers, Marshall, Mayo and Roxboro as low risk. The Coal Ash Act allowed a range of closure options for low risk rated basins. On April 1, 2019, NCDEQ issued a closure determination (NCDEQ's April 1 Order) requiring Duke Energy Carolinas and Duke Energy Progress to excavate all remaining coal ash impoundments at these facilities. On April 26, 2019, Duke Energy Carolinas and Duke Energy Progress filed Petitions for Contested Case Hearings in the Office of Administrative Hearings to challenge NCDEQ's April 1 Order. On May 9, 2019, NCDEQ issued a supplemental order requiring that closure plans be submitted on December 31, 2019, but providing that the corrective action plans are not due until March 31, 2020. Duke Energy Carolinas and Duke Energy Progress filed amended petitions on May 24, 2019, incorporating the May 9, 2019, order.

On December 31, 2019, the parties executed a settlement agreement resolving the closure method for each of these sites. Duke Energy Carolinas and Duke Energy Progress agreed to excavate seven of the nine remaining coal ash basins at these sites with ash moved to on-site lined landfills, including two at Allen, one at Belews Creek, one at Mayo, one at Roxboro, and two at Rogers. At the two remaining basins at Marshall and Roxboro, uncapped basin ash will be excavated and moved to lined landfills. Those portions of the basins at Marshall and Roxboro, which were previously filled with ash and on which permitted facilities were constructed, will not be disturbed and will be closed pursuant to other state regulations. On February 5, 2020, the North Carolina Superior court entered a consent order, after which this litigation was dismissed on February 11, 2020.

Coal Ash Insurance Coverage Litigation

In March 2017, Duke Energy Carolinas and Duke Energy Progress filed a civil action in the North Carolina Superior Court against various insurance providers. The lawsuit seeks payment for coal ash-related liabilities covered by third-party liability insurance policies. The insurance policies were issued between 1971 and 1986 and provide third-party liability insurance for property damage. The civil action seeks damages for breach of contract and indemnification for costs arising from the Coal Ash Act and the EPA CCR rule at 15 coal-fired plants in North Carolina and South Carolina. Despite a stay of the litigation from May 2019 through September 2019 to allow the parties to discuss potential resolution, no resolution was reached, and litigation resumed. In February and March 2020, the Court will hear arguments on numerous cross motions filed by the parties to seek legal determinations concerning, among

other issues, the appropriate insurance allocation methods, the trigger of the applicable coverages and several coverage defenses raised by the insurance providers. Trial is scheduled for February 2021. Duke Energy Carolinas and Duke Energy Progress cannot predict the outcome of this matter.

NCDEQ State Enforcement Actions

In the first quarter of 2013, SELC sent notices of intent to sue Duke Energy Carolinas and Duke Energy Progress related to alleged CWA violations from coal ash basins at two coal-fired power plants in North Carolina. The NCDEQ filed enforcement actions against Duke Energy Carolinas and Duke Energy Progress alleging violations of water discharge permits and North Carolina groundwater standards. The cases have been consolidated and are being heard before a single judge in the North Carolina Superior Court.

On August 16, 2013, the NCDEQ filed an enforcement action against Duke Energy Carolinas and Duke Energy Progress related to the remaining coal-fired power plants in North Carolina, alleging violations of the CWA and violations of the North Carolina groundwater standards. Both of these cases have been assigned to the judge handling the enforcement actions discussed above. SELC is representing several environmental groups who have been permitted to intervene in these cases.

The court issued orders in 2016 granting Motions for Partial Summary Judgment for seven of the 14 North Carolina plants with coal ash basins named in the enforcement actions. On February 13, 2017, the court issued an order denying motions for partial summary judgment brought by both the environmental groups and Duke Energy Carolinas and Duke Energy Progress for the remaining seven plants. On March 15, 2017, Duke Energy Carolinas and Duke Energy Progress filed a Notice of Appeal with the North Carolina Court of Appeals to challenge the trial court's order. The parties were unable to reach an agreement at mediation in April 2017 and submitted briefs to the trial court on remaining issues to be tried. On August 1, 2018, the Court of Appeals dismissed the appeal.

Pursuant to the terms of the December 31, 2019, settlement agreement, discussed above, between Duke Energy Carolinas, Duke Energy Progress, NCDEQ and the community groups represented by the SELC, this litigation was dismissed on February 5, 2020, upon entry of the consent order in the North Carolina Superior Court.

Federal Citizens Suits

On June 13, 2016, Roanoke River Basin Association (RRBA) filed a federal citizen suit in the Middle District of North Carolina alleging unpermitted discharges to surface water and groundwater violations at the Mayo Plant. On August 19, 2016, Duke Energy Progress filed a Motion to Dismiss. On April 26, 2017, the court entered an order dismissing four of the claims in the federal citizen suit. Two claims relating to alleged violations of National Pollution Discharge Elimination System (NPDES) permit provisions survived the motion to dismiss, and Duke Energy Progress filed its response on May 10, 2017. Duke Energy Progress and RRBA each filed motions for summary judgment on March 23, 2018.

On May 16, 2017, RRBA filed a federal citizen suit in the U.S. District Court for the Middle District of North Carolina, which asserts two claims relating to alleged violations of NPDES permit provisions at the Roxboro Plant and one claim relating to the use of nearby water bodies. Duke Energy Progress and RRBA each filed motions for summary judgment on April 17, 2018.

On May 8, 2018, on motion from Duke Energy Progress, the court ordered trial in both of the above matters to be consolidated. On April 5, 2019, Duke Energy Progress filed a motion to stay the case following the NCDEQ's April 1 Order. On August 2, 2019, the court ordered that this case is stayed.

Combined Notes to Consolidated Financial Statements – (Continued)

On December 5, 2017, various parties filed a federal citizen suit in the U.S. District Court for the Middle District of North Carolina for alleged violations at Duke Energy Carolinas' Belews Creek under the CWA. Duke Energy Carolinas' answer to the complaint was filed on August 27, 2018. On October 10, 2018, Duke Energy Carolinas filed Motions to Dismiss for lack of standing, Motion for Judgment on the Pleadings and Motion to Stay Discovery. On January 9, 2019, the court entered an order denying Duke Energy Carolinas' motion to stay discovery. There has been no ruling on the other pending motions. On April 5, 2019, Duke Energy Carolinas filed a motion to stay the case following the NCDEQ's April 1 Order. On August 2, 2019, the court ordered that this case is stayed.

On December 31, 2019, Duke Energy Carolinas, Duke Energy Progress, the NCDEQ and various community groups including RRBA entered into a comprehensive settlement that, among other things, resolves the method of closure at the Mayo, Roxboro and Belews Creek ash basins. On February 5, 2020, the North Carolina Superior Court entered a consent order confirming the terms of the settlement agreement, upon which RRBA filed stipulations on February 11, 2020 voluntarily dismissing all three of these federal citizen suits with prejudice.

Duke Energy Carolinas

Asbestos-related Injuries and Damages Claims

Duke Energy Carolinas has experienced numerous claims for indemnification and medical cost reimbursement related to asbestos exposure. These claims relate to damages for bodily injuries alleged to have arisen from exposure to or use of asbestos in connection with construction and maintenance activities conducted on its electric generation plants prior to 1985. As of December 31, 2019, there were 123 asserted claims for non-malignant cases with the cumulative relief sought of up to \$32 million and 49 asserted claims for malignant cases with the cumulative relief sought of up to \$16 million. Based on Duke Energy Carolinas' experience, it is expected that the ultimate resolution of most of these claims likely will be less than the amount claimed.

Duke Energy Carolinas has recognized asbestos-related reserves of \$604 million and \$630 million at December 31, 2019, and 2018, respectively. These reserves are classified in Other within Other Noncurrent Liabilities and Other within Current Liabilities on the Consolidated Balance Sheets. These reserves are based upon Duke Energy Carolinas' best estimate for current and future asbestos claims through 2039 and are recorded on an undiscounted basis. In light of the uncertainties inherent in a longer-term forecast, management does not believe they can reasonably estimate the indemnity and medical costs that might be incurred after 2039 related to such potential claims. It is possible Duke Energy Carolinas may incur asbestos liabilities in excess of the recorded reserves.

Duke Energy Carolinas has third-party insurance to cover certain losses related to asbestos-related injuries and damages above an aggregate self-insured retention. Duke Energy Carolinas' cumulative payments began to exceed the self-insurance retention in 2008. Future payments up to the policy limit will be reimbursed by the third-party insurance carrier. The insurance policy limit for potential future insurance recoveries indemnification and medical cost claim payments is \$747 million in excess of the self-insured retention. Receivables for insurance recoveries were \$742 million and \$739 million at December 31, 2019, and 2018, respectively. These amounts are classified in Other within Other Noncurrent Assets and Receivables within Current Assets on the Consolidated Balance Sheets. Duke Energy Carolinas is not aware of any uncertainties regarding the legal sufficiency of insurance claims. Duke Energy Carolinas believes the insurance recovery asset is probable of recovery as the insurance carrier continues to have a strong financial strength rating.

Duke Energy Progress and Duke Energy Florida

Spent Nuclear Fuel Matters

On June 18, 2018, Duke Energy Progress and Duke Energy Florida sued the U.S. in the U.S. Court of Federal Claims for damages incurred for the period 2014 through 2018. The lawsuit claimed the Department of Energy breached a contract in failing to accept spent nuclear fuel under the Nuclear Waste Policy Act of 1982 and asserted damages for the cost of on-site storage in the amount of \$100 million and \$203 million for Duke Energy Progress and Duke Energy Florida, respectively. Discovery is ongoing and a trial is expected to occur in early 2021.

Duke Energy Florida

Fluor Contract Litigation

On January 29, 2019, Fluor filed a breach of contract lawsuit in the U.S. District Court for the Middle District of Florida against Duke Energy Florida related to an EPC agreement for the CC natural gas plant in Citrus County, Florida. Fluor filed an amended complaint on February 13, 2019. Fluor's multicount complaint seeks civil, statutory and contractual remedies related to Duke Energy Florida's \$67 million draw in early 2019, on Fluor's letter of credit and offset of invoiced amounts. Duke Energy Florida moved to dismiss all counts of Fluor's amended complaint, and on April 16, 2019, the court dismissed Fluor's complaint without prejudice. On April 26, 2019, Fluor filed a second amended complaint.

On August 1, 2019, Duke Energy Florida and Fluor reached a settlement to resolve the pending litigation and other outstanding issues related to completing the Citrus County CC. Pursuant to the terms of the settlement, Fluor filed a notice of voluntary dismissal, and on August 27, 2019, the court dismissed the case with prejudice. As a result of the settlement with Fluor, Duke Energy Florida recorded a \$36 million reduction to a prior-year impairment within Impairment charges on Duke Energy's Consolidated Statements of Operations in 2019.

Other Litigation and Legal Proceedings

The Duke Energy Registrants are involved in other legal, tax and regulatory proceedings arising in the ordinary course of business, some of which involve significant amounts. The Duke Energy Registrants believe the final disposition of these proceedings will not have a material effect on their results of operations, cash flows or financial position.

The table below presents recorded reserves based on management's best estimate of probable loss for legal matters, excluding asbestos-related reserves. Reserves are classified on the Consolidated Balance Sheets in Other within Other Noncurrent Liabilities and Other within Current Liabilities. The reasonably possible range of loss in excess of recorded reserves is not material, other than as described above.

(in millions)	December 31,	
	2019	2018
Reserves for Legal Matters		
Duke Energy	\$ 62	\$ 65
Duke Energy Carolinas	2	9
Progress Energy	55	54
Duke Energy Progress	12	12
Duke Energy Florida	22	24
Piedmont	1	1

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Combined Notes to Consolidated Financial Statements – (Continued)

OTHER COMMITMENTS AND CONTINGENCIES

General

As part of their normal business, the Duke Energy Registrants are party to various financial guarantees, performance guarantees and other contractual commitments to extend guarantees of credit and other assistance to various subsidiaries, investees and other third parties. These guarantees involve elements of performance and credit risk, which are not fully recognized on the Consolidated Balance Sheets and have uncapped maximum potential payments. See Note 8 for more information.

Purchase Obligations

Purchased Power

Duke Energy Progress, Duke Energy Florida and Duke Energy Ohio have ongoing purchased power contracts, including renewable energy contracts, with other utilities, wholesale marketers, co-generators and qualified facilities. These purchased power contracts generally provide for capacity and energy payments. In addition, Duke Energy Progress and Duke Energy Florida have various contracts to secure transmission rights.

The following table presents executory purchased power contracts with terms exceeding one year, excluding contracts classified as leases.

(in millions)	Contract Expiration	Minimum Purchase Amount at December 31, 2019						Total
		2020	2021	2022	2023	2024	Thereafter	
Duke Energy Progress ^(a)	2021-2032	\$ 46	\$ 66	\$ 63	\$ 55	\$ 56	\$ 123	\$ 409
Duke Energy Florida ^(b)	2021-2025	374	356	354	374	262	91	1,811
Duke Energy Ohio ^{(c)(d)}	2021-2022	132	107	32	—	—	—	271

(a) Contracts represent either 100% of net plant output or vary.

(b) Contracts represent between 81% and 100% of net plant output.

(c) Contracts represent between 1% and 9% of net plant output.

(d) Excludes PPA with OVEC. See Note 18 for additional information.

Gas Supply and Capacity Contracts

Duke Energy Ohio and Piedmont routinely enter into long-term natural gas supply commodity and capacity commitments and other agreements that commit future cash flows to acquire services needed in their businesses. These commitments include pipeline and storage capacity contracts and natural gas supply contracts to provide service to customers. Costs arising from the natural gas supply commodity and capacity commitments, while significant, are pass-through costs to customers and are generally fully recoverable through the fuel adjustment or PGA procedures and prudence reviews in North Carolina and South Carolina and under the Tennessee Incentive Plan in Tennessee. In the Midwest, these costs are recovered via the Gas Cost Recovery Rate in Ohio or the Gas Cost Adjustment Clause in Kentucky. The time periods for fixed payments under pipeline and storage capacity contracts are up to 15 years. The time periods for fixed payments under natural gas supply contracts are up to six years. The time period for the natural gas supply purchase commitments is up to 11 years.

Certain storage and pipeline capacity contracts require the payment of demand charges that are based on rates approved by the FERC in order to maintain rights to access the natural gas storage or pipeline capacity on a firm basis during the contract term. The demand charges that are incurred in each period are recognized in the Consolidated Statements of Operations and Comprehensive Income as part of natural gas purchases and are included in Cost of natural gas.

The following table presents future unconditional purchase obligations under natural gas supply and capacity contracts as of December 31, 2019.

(in millions)	Duke Energy	Duke Energy Ohio	Piedmont
2020	\$ 297	\$ 39	\$ 258
2021	280	33	247
2022	225	14	211
2023	129	3	126
2024	118	—	118
Thereafter	714	—	714
Total	\$ 1,763	\$ 89	\$ 1,674

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Combined Notes to Consolidated Financial Statements – (Continued)

6. LEASES

As described in Note 1, Duke Energy adopted the revised accounting guidance for Leases effective January 1, 2019, using the modified retrospective method of adoption, which does not require restatement of prior year reported results. Adoption of the new standard resulted in the recording of ROU assets and operating lease liabilities as follows:

	As of January 1, 2019							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
ROU assets	\$ 1,750	\$ 153	\$ 863	\$ 407	\$ 456	\$ 23	\$ 61	\$ 26
Operating lease liabilities – current	205	28	96	35	61	1	4	4
Operating lease liabilities – noncurrent	1,504	127	766	371	395	22	58	25

As part of its operations, Duke Energy leases certain aircraft, space on communication towers, industrial equipment, fleet vehicles, fuel transportation (barges and railcars), land and office space under various terms and expiration dates. Additionally, Duke Energy Carolinas, Duke Energy Progress and Duke Energy Indiana have finance leases related to firm natural gas pipeline transportation capacity. Duke Energy Progress and Duke Energy Florida have entered into certain PPAs, which are classified as finance and operating leases.

Duke Energy has certain lease agreements, which include variable lease payments that are based on the usage of an asset. These variable lease payments are not included in the measurement of the ROU assets or operating lease liabilities on the Consolidated Financial Statements.

Certain Duke Energy lease agreements include options for renewal and early termination. The intent to renew a lease varies depending on the lease type and asset. Renewal options that are reasonably certain to be exercised are included in the lease measurements. The decision to terminate a lease early is dependent on various economic factors. No termination options have been included in any of the lease measurements.

Duke Energy Carolinas entered into a sale-leaseback arrangement in December 2019, to construct and occupy an office tower. The lease agreement was evaluated as a sale-leaseback of real estate and it was determined that the transaction did not qualify for sale-leaseback accounting. As a result, the transaction is being accounted for as a financing. For this transaction, Duke Energy Carolinas will continue to record the real estate on the Consolidated Balance Sheets within Property, Plant and Equipment as if it were the legal owner and will continue to recognize depreciation expense over the estimated useful life. In addition, a liability will be recorded for the failed sale-leaseback obligation within Long-Term Debt on the Consolidated Balance Sheets, with the

monthly lease payments commencing after the construction phase being split between interest expense and principal pay down of the debt.

Duke Energy operates various renewable energy projects and sells the generated output to utilities, electric cooperatives, municipalities and commercial and industrial customers through long-term PPAs. In certain situations, these PPAs and the associated renewable energy projects qualify as operating leases. Rental income from these leases is accounted for as Nonregulated electric and other revenues in the Consolidated Statements of Operations. There are no minimum lease payments as all payments are contingent based on actual electricity generated by the renewable energy projects. Contingent lease payments were \$264 million, \$268 million and \$262 million for the years ended December 31, 2019, 2018, and 2017, respectively. Renewable energy projects owned by Duke Energy and accounted for as operating leases had a cost basis of \$3,349 million and \$3,358 million and accumulated depreciation of \$721 million and \$602 million at December 31, 2019, and 2018, respectively. These assets are principally classified as nonregulated electric generation and transmission assets.

Piedmont has an agreement with Duke Energy Carolinas for the construction and transportation of natural gas pipelines to supply its natural gas plant needs. Piedmont accounts for this pipeline lateral contract as a lessor and sales-type lease since the present value of the sum of the lease payments equals the fair value of the asset. As of December 31, 2019, the pipeline lateral assets owned by Piedmont had a current net investment basis of \$4 million and a long-term net investment basis of \$70 million. These assets are classified in Other, within Current Assets and Other Noncurrent Assets, respectively, on Piedmont's Consolidated Balance Sheets. Duke Energy Carolinas accounts for the contract as a finance lease. The activity for this contract is eliminated in consolidation at Duke Energy.

The following table presents the components of lease expense.

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Operating lease expense ^(a)	\$ 292	\$ 47	\$ 161	\$ 69	\$ 92	\$ 11	\$ 20	\$ 5
Short-term lease expense ^(a)	16	5	9	4	5	1	2	—
Variable lease expense ^(a)	47	22	22	16	6	—	1	1
Finance lease expense								
Amortization of leased assets ^(b)	111	6	21	5	16	1	—	—
Interest on lease liabilities ^(c)	61	15	42	33	9	—	1	—
Total finance lease expense	172	21	63	38	25	1	1	—
Total lease expense	\$ 527	\$ 95	\$ 255	\$ 127	\$ 128	\$ 13	\$ 24	\$ 6

(a) Included in Operations, maintenance and other or, for barges and railcars, Fuel used in electric generation and purchased power on the Consolidated Statements of Operations.

(b) Included in Depreciation and amortization on the Consolidated Statements of Operations.

(c) Included in Interest Expense on the Consolidated Statements of Operations.

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Combined Notes to Consolidated Financial Statements – (Continued)

The following table presents rental expense for operating leases, as reported under the former lease standard. These amounts are included in Operation, maintenance and other and Fuel used in electric generation and purchased power on the Consolidated Statements of Operations.

(in millions)	Years Ended December 31,	
	2018	2017
Duke Energy	\$ 268	\$ 241
Duke Energy Carolinas	49	44
Progress Energy	143	130
Duke Energy Progress	75	75
Duke Energy Florida	68	55
Duke Energy Ohio	13	15
Duke Energy Indiana	21	23
Piedmont	11	7

The following table presents operating lease maturities and a reconciliation of the undiscounted cash flows to operating lease liabilities.

(in millions)	December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
2020	\$ 268	\$ 31	\$ 123	\$ 51	\$ 72	\$ 2	\$ 5	\$ 5
2021	216	19	99	44	55	2	4	5
2022	201	19	95	40	55	2	4	5
2023	191	17	95	41	54	2	4	5
2024	176	13	95	41	54	2	4	5
Thereafter	984	57	462	283	179	21	64	5
Total operating lease payments	2,036	156	969	500	469	31	85	30
Less: present value discount	(396)	(27)	(177)	(109)	(68)	(9)	(27)	(3)
Total operating lease liabilities ^(a)	\$ 1,640	\$ 129	\$ 792	\$ 391	\$ 401	\$ 22	\$ 58	\$ 27

(a) Certain operating lease payments include renewal options that are reasonably certain to be exercised.

The following table presents future minimum lease payments under operating leases, which at inception had a noncancelable term of more than one year, as reported under the former lease standard.

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
2019	\$ 239	\$ 33	\$ 97	\$ 49	\$ 48	\$ 2	\$ 6	\$ 5
2020	219	29	90	46	44	2	5	5
2021	186	19	79	37	42	2	4	5
2022	170	19	76	34	42	2	4	5
2023	160	17	77	35	42	2	5	6
Thereafter	1,017	68	455	314	141	23	66	11
Total	\$ 1,991	\$ 185	\$ 874	\$ 515	\$ 359	\$ 33	\$ 90	\$ 37

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Combined Notes to Consolidated Financial Statements – (Continued)

The following table presents finance lease maturities and a reconciliation of the undiscounted cash flows to finance lease liabilities.

(in millions)	December 31, 2019					
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Indiana
2020	\$ 181	\$ 28	\$ 69	\$ 44	\$ 25	\$ 1
2021	186	23	69	44	25	1
2022	173	23	69	44	25	1
2023	175	23	69	44	25	1
2024	121	23	55	44	11	1
Thereafter	823	314	539	528	11	27
Total finance lease payments	1,659	434	870	748	122	32
Less: amounts representing interest	(690)	(255)	(465)	(441)	(24)	(22)
Total finance lease liabilities	\$ 969	\$ 179	\$ 405	\$ 307	\$ 98	\$ 10

The following table presents future minimum lease payments under finance leases, as reported under the former lease standard.

(in millions)	December 31, 2018					
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio Indiana
2019	\$ 170	\$ 20	\$ 45	\$ 20	\$ 25	\$ 2
2020	174	20	46	21	25	—
2021	177	15	45	20	25	—
2022	165	15	45	21	24	—
2023	165	15	45	21	24	—
Thereafter	577	204	230	209	21	—
Minimum annual payments	1,428	289	456	312	144	2
Less: amount representing interest	(487)	(180)	(205)	(175)	(30)	—
Total	\$ 941	\$ 109	\$ 251	\$ 137	\$ 114	\$ 2

The following tables contain additional information related to leases.

(in millions)		December 31, 2019							
		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Assets									
Operating	Operating lease ROU assets, net	\$ 1,658	\$ 123	\$ 788	\$ 387	\$ 401	\$ 21	\$ 57	\$ 24
Finance	Net property, plant and equipment	926	198	443	308	135	—	7	—
Total lease assets		\$ 2,584	\$ 321	\$ 1,231	\$ 695	\$ 536	\$ 21	\$ 64	\$ 24
Liabilities									
Current									
Operating	Other current liabilities	\$ 208	\$ 27	\$ 95	\$ 37	\$ 58	\$ 1	\$ 3	\$ 4
Finance	Current maturities of long-term debt	119	7	24	6	18	—	—	—
Noncurrent									
Operating	Operating lease liabilities	1,432	102	697	354	343	21	55	23
Finance	Long-Term Debt	850	172	381	301	80	—	10	—
Total lease liabilities		\$ 2,609	\$ 308	\$ 1,197	\$ 698	\$ 499	\$ 22	\$ 68	\$ 27

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Combined Notes to Consolidated Financial Statements – (Continued)

	Year Ended December 31, 2019							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Cash paid for amounts included in the measurement of lease liabilities^(a)								
Operating cash flows from operating leases	\$ 285	\$ 34	\$ 131	\$ 53	\$ 78	\$ 2	\$ 7	\$ 7
Operating cash flows from finance leases	61	15	42	33	9	—	1	—
Financing cash flows from finance leases	111	6	21	5	16	1	—	—
Lease assets obtained in exchange for new lease liabilities (non-cash)								
Operating ^(b)	\$ 194	\$ 44	\$ 30	\$ 30	\$ —	\$ —	\$ —	\$ 1
Finance	251	76	175	175	—	—	—	—

(a) No amounts were classified as investing cash flows from operating leases for the year ended December 31, 2019.

(b) Does not include ROU assets recorded as a result of the adoption of the new lease standard.

	December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Weighted average remaining lease term (years)								
Operating leases	11	9	10	12	8	17	18	6
Finance leases	13	19	16	18	11	—	26	—
Weighted average discount rate^(a)								
Operating leases	3.9%	3.5%	3.8%	3.9%	3.8%	4.2%	4.1%	3.6%
Finance leases	8.1%	11.8%	11.9%	12.4%	8.3%	—%	11.9%	—%

(a) The discount rate is calculated using the rate implicit in a lease if it is readily determinable. Generally, the rate used by the lessor is not provided to Duke Energy and in these cases the incremental borrowing rate is used. Duke Energy will typically use its fully collateralized incremental borrowing rate as of the commencement date to calculate and record the lease. The incremental borrowing rate is influenced by the lessee's credit rating and lease term and as such may differ for individual leases, embedded leases or portfolios of leased assets.

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Combined Notes to Consolidated Financial Statements – (Continued)

7. DEBT AND CREDIT FACILITIES

SUMMARY OF DEBT AND RELATED TERMS

The following tables summarize outstanding debt.

(in millions)	December 31, 2019								
	Weighted Average Interest Rate	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unsecured debt, maturing 2020-2078	4.02%	\$ 22,477	\$ 1,150	\$ 3,650	\$ 700	\$ 350	\$ 1,110	\$ 405	\$ 2,399
Secured debt, maturing 2020-2052	3.30%	4,537	544	1,722	335	1,387	—	—	—
First mortgage bonds, maturing 2020-2049 ^(a)	4.13%	27,977	9,557	13,800	7,575	6,225	1,449	3,169	—
Finance leases, maturing 2022-2051 ^(b)	6.60%	969	179	405	307	98	—	10	—
Tax-exempt bonds, maturing 2022-2041 ^(c)	2.90%	730	243	48	48	—	77	362	—
Notes payable and commercial paper ^(d)	1.98%	3,588	—	—	—	—	—	—	—
Money pool/intercompany borrowings	—	—	329	1,970	216	—	337	180	476
Fair value hedge carrying value adjustment	—	5	5	—	—	—	—	—	—
Unamortized debt discount and premium, net ^(e)	—	1,294	(23)	(29)	(17)	(11)	(30)	(19)	(2)
Unamortized debt issuance costs ^(f)	—	(316)	(55)	(111)	(40)	(62)	(12)	(20)	(13)
Total debt	3.92%	\$ 61,261	\$ 11,929	\$ 21,455	\$ 9,124	\$ 7,987	\$ 2,931	\$ 4,087	\$ 2,860
Short-term notes payable and commercial paper	—	(3,135)	—	—	—	—	—	—	—
Short-term money pool/intercompany borrowings	—	—	(29)	(1,821)	(66)	—	(312)	(30)	(476)
Current maturities of long-term debt ^(g)	—	(3,141)	(458)	(1,577)	(1,006)	(571)	—	(503)	—
Total long-term debt ^(g)	—	\$ 54,985	\$ 11,442	\$ 18,057	\$ 8,052	\$ 7,416	\$ 2,619	\$ 3,554	\$ 2,384

- (a) Substantially all electric utility property is mortgaged under mortgage bond indentures.
- (b) Duke Energy includes \$44 million and \$419 million of finance lease purchase accounting adjustments related to Duke Energy Progress and Duke Energy Florida, respectively, related to PPAs that are not accounted for as finance leases in their respective financial statements because of grandfathering provisions in GAAP.
- (c) Substantially all tax-exempt bonds are secured by first mortgage bonds, letters of credit or the Master Credit Facility.
- (d) Includes \$625 million classified as Long-Term Debt on the Consolidated Balance Sheets due to the existence of long-term credit facilities that backstop these commercial paper balances, along with Duke Energy's ability and intent to refinance these balances on a long-term basis. The weighted average days to maturity for Duke Energy's commercial paper program was 14 days.
- (e) Duke Energy includes \$1,275 million and \$137 million in purchase accounting adjustments related to Progress Energy and Piedmont, respectively.
- (f) Duke Energy includes \$37 million in purchase accounting adjustments primarily related to the merger with Progress Energy.
- (g) Refer to Note 18 for additional information on amounts from consolidated VIEs.

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	December 31, 2018								
	Weighted Average Interest Rate	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unsecured debt, maturing 2019-2078	4.26%	\$ 20,955	\$ 1,150	\$ 3,800	\$ 50	\$ 350	\$ 1,000	\$ 408	\$ 2,150
Secured debt, maturing 2020-2037	3.69%	4,297	450	1,703	300	1,403	—	—	—
First mortgage bonds, maturing 2019-2048 ^(a)	4.32%	25,628	8,759	13,100	7,574	5,526	1,099	2,670	—
Finance leases, maturing 2019-2051 ^(b)	5.06%	941	109	251	137	114	2	10	—
Tax-exempt bonds, maturing 2019-2041 ^(c)	3.40%	941	243	48	48	—	77	572	—
Notes payable and commercial paper ^(d)	2.73%	4,035	—	—	—	—	—	—	—
Money pool/intercompany borrowings	—	—	739	1,385	444	108	299	317	198
Fair value hedge carrying value adjustment	—	5	5	—	—	—	—	—	—
Unamortized debt discount and premium, net ^(e)	—	1,434	(23)	(29)	(15)	(11)	(31)	(8)	(1)
Unamortized debt issuance costs ^(f)	—	(297)	(54)	(112)	(40)	(61)	(7)	(20)	(11)
Total debt	4.13%	\$ 57,939	\$11,378	\$ 20,146	\$ 8,498	\$ 7,429	\$ 2,439	\$ 3,949	\$ 2,336
Short-term notes payable and commercial paper	—	(3,410)	—	—	—	—	—	—	—
Short-term money pool/intercompany borrowings	—	—	(439)	(1,235)	(294)	(108)	(274)	(167)	(198)
Current maturities of long-term debt ^(g)	—	(3,406)	(6)	(1,672)	(603)	(270)	(551)	(63)	(350)
Total long-term debt^(g)	—	\$ 51,123	\$10,933	\$ 17,239	\$ 7,601	\$ 7,051	\$ 1,614	\$ 3,719	\$ 1,788

(a) Substantially all electric utility property is mortgaged under mortgage bond indentures.

(b) Duke Energy includes \$63 million and \$531 million of finance lease purchase accounting adjustments related to Duke Energy Progress and Duke Energy Florida, respectively, related to PPAs that are not accounted for as finance leases in their respective financial statements because of grandfathering provisions in GAAP.

(c) Substantially all tax-exempt bonds are secured by first mortgage bonds, letters of credit or the Master Credit Facility.

(d) Includes \$625 million that was classified as Long-Term Debt on the Consolidated Balance Sheets due to the existence of long-term credit facilities that backstop these commercial paper balances, along with Duke Energy's ability and intent to refinance these balances on a long-term basis. The weighted average days to maturity for Duke Energy's commercial paper programs was 16 days.

(e) Duke Energy includes \$1,380 million and \$156 million in purchase accounting adjustments related to Progress Energy and Piedmont, respectively.

(f) Duke Energy includes \$41 million in purchase accounting adjustments primarily related to the merger with Progress Energy.

(g) Refer to Note 18 for additional information on amounts from consolidated VIEs.

CURRENT MATURITIES OF LONG-TERM DEBT

The following table shows the significant components of Current maturities of Long-Term Debt on the Consolidated Balance Sheets. The Duke Energy Registrants currently anticipate satisfying these obligations with cash on hand and proceeds from additional borrowings.

(in millions)	Maturity Date	Interest Rate	December 31, 2019
Unsecured Debt			
Duke Energy (Parent)	June 2020	2.100%	\$ 330
Duke Energy Progress	December 2020	2.510% ^(a)	700
First Mortgage Bonds			
Duke Energy Florida	January 2020	1.850%	250
Duke Energy Florida	April 2020	4.550%	250
Duke Energy Carolinas	June 2020	4.300%	450
Duke Energy Indiana	July 2020	3.750%	500
Duke Energy Progress	September 2020	2.065% ^(a)	300
Other^(b)			361
Current maturities of long-term debt			\$ 3,141

(a) Debt has a floating interest rate.

(b) Includes finance lease obligations, amortizing debt and small bullet maturities.

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Combined Notes to Consolidated Financial Statements – (Continued)

Maturities and Call Options

The following table shows the annual maturities of long-term debt for the next five years and thereafter. Amounts presented exclude short-term notes payable, commercial paper and money pool borrowings and debt issuance costs for the Subsidiary Registrants.

(in millions)	December 31, 2019							
	Duke Energy ^(a)	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
2020	\$ 3,141	\$ 458	\$ 1,578	\$ 1,006	\$ 572	\$ —	\$ 503	\$ —
2021	5,053	504	2,257	932	825	50	70	160
2022	4,334	830	1,048	508	90	—	94	—
2023	3,112	1,006	398	319	79	325	3	45
2024	1,965	306	227	160	67	25	154	40
Thereafter	39,542	8,875	14,267	6,190	6,427	2,261	3,272	2,155
Total long-term debt, including current maturities	\$ 57,147	\$ 11,979	\$ 19,775	\$ 9,115	\$ 8,060	\$ 2,661	\$ 4,096	\$ 2,400

(a) Excludes \$1,448 million in purchase accounting adjustments related to the Progress Energy merger and the Piedmont acquisition.

The Duke Energy Registrants have the ability under certain debt facilities to call and repay the obligation prior to its scheduled maturity. Therefore, the actual timing of future cash repayments could be materially different than as presented above.

Short-Term Obligations Classified as Long-Term Debt

Tax-exempt bonds that may be put to the Duke Energy Registrants at the option of the holder and certain commercial paper issuances and money pool borrowings are classified as Long-Term Debt on the Consolidated Balance Sheets. These tax-exempt bonds, commercial paper issuances and money pool borrowings, which are short-term obligations by nature, are classified as long-term due to Duke Energy's intent and ability to utilize such borrowings as long-term financing. As Duke Energy's Master Credit Facility and other bilateral letter of credit agreements have non-cancelable terms in excess of one year as of the balance sheet date, Duke Energy has the ability to refinance these short-term obligations on a long-term basis. The following tables show short-term obligations classified as long-term debt.

(in millions)	December 31, 2019				
	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Ohio	Duke Energy Indiana
Tax-exempt bonds	\$ 312	\$ —	\$ —	\$ 27	\$ 285
Commercial paper ^(a)	625	300	150	25	150
Total	\$ 937	\$ 300	\$ 150	\$ 52	\$ 435

(in millions)	December 31, 2018				
	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Ohio	Duke Energy Indiana
Tax-exempt bonds	\$ 312	\$ —	\$ —	\$ 27	\$ 285
Commercial paper ^(a)	625	300	150	25	150
Total	\$ 937	\$ 300	\$ 150	\$ 52	\$ 435

(a) Progress Energy amounts are equal to Duke Energy Progress amounts.

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Combined Notes to Consolidated Financial Statements – (Continued)

Summary of Significant Debt Issuances

The following tables summarize significant debt issuances (in millions).

			Year Ended December 31, 2019							
			Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Issuance Date	Maturity Date	Interest Rate	Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unsecured Debt										
March 2019 ^(a)	Mar 2022	2.538% ^(b)	\$ 300	\$ 300	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
March 2019 ^(a)	Mar 2022	3.227%	300	300	—	—	—	—	—	—
May 2019 ^(e)	Jun 2029	3.500%	600	—	—	—	—	—	—	600
June 2019 ^(a)	Jun 2029	3.400%	600	600	—	—	—	—	—	—
June 2019 ^(a)	Jun 2049	4.200%	600	600	—	—	—	—	—	—
July 2019 ^(g)	Jul 2049	4.320%	40	—	—	—	—	40	—	—
September 2019 ^(g)	Oct 2025	3.230%	95	—	—	—	—	95	—	—
September 2019 ^(g)	Oct 2029	3.560%	75	—	—	—	—	75	—	—
November 2019 ^(h)	Nov 2021	2.167% ^(b)	200	—	—	—	200	—	—	—
First Mortgage Bonds										
January 2019 ^(c)	Feb 2029	3.650%	400	—	—	—	—	400	—	—
January 2019 ^(c)	Feb 2049	4.300%	400	—	—	—	—	400	—	—
March 2019 ^(d)	Mar 2029	3.450%	600	—	—	600	—	—	—	—
August 2019 ^(a)	Aug 2029	2.450%	450	—	450	—	—	—	—	—
August 2019 ^(a)	Aug 2049	3.200%	350	—	350	—	—	—	—	—
September 2019 ^(f)	Oct 2049	3.250%	500	—	—	—	—	—	500	—
November 2019 ⁽ⁱ⁾	Dec 2029	2.500%	700	—	—	—	700	—	—	—
Total issuances			\$ 6,210	\$ 1,800	\$ 800	\$ 600	\$ 900	\$ 1,010	\$ 500	\$ 600

- (a) Debt issued to pay down short-term debt and for general corporate purposes.
(b) Debt issuance has a floating interest rate.
(c) Debt issued to repay at maturity \$450 million first mortgage bonds due April 2019, pay down short-term debt and for general corporate purposes.
(d) Debt issued to fund eligible green energy projects in the Carolinas.
(e) Debt issued to repay in full the outstanding \$350 million Piedmont unsecured term loan due September 2019, pay down short-term debt and for general corporate purposes.
(f) Debt issued to retire \$150 million of pollution control bonds, pay down short-term debt and for general corporate purposes.
(g) Debt issued to repay at maturity \$100 million debentures due October 2019, pay down short-term debt and for general corporate purposes.
(h) Debt issued to fund storm restoration costs and for general corporate purposes.
(i) Debt issued to reimburse the payment of existing and new Eligible Green Expenditures in Florida.

In January 2020, Duke Energy Carolinas closed and funded \$900 million of first mortgage bonds of which \$500 million carry a fixed interest rate of 2.45% and mature February 2030 and \$400 million carry a fixed interest rate of 3.20% and mature August 2049. The proceeds will be used to repay at maturity \$450 million, 4.30% debentures maturing June 2020, and for general corporate purposes.

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Combined Notes to Consolidated Financial Statements – (Continued)

			Year Ended December 31, 2018				
Issuance Date	Maturity Date	Interest Rate	Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida
Unsecured Debt							
March 2018 ^(a)	April 2025	3.950%	\$ 250	\$ 250	\$ —	\$ —	\$ —
May 2018 ^(b)	May 2021	3.114%	500	500	—	—	—
September 2018 ^(c)	September 2078	5.625%	500	500	—	—	—
First Mortgage Bonds							
March 2018 ^(d)	March 2023	3.050%	500	—	500	—	—
March 2018 ^(d)	March 2048	3.950%	500	—	500	—	—
June 2018 ^(e)	July 2028	3.800%	600	—	—	—	600
June 2018 ^(e)	July 2048	4.200%	400	—	—	—	400
August 2018 ^(f)	September 2023	3.375%	300	—	—	300	—
August 2018 ^(f)	September 2028	3.700%	500	—	—	500	—
November 2018 ^(g)	May 2022	3.350%	350	—	350	—	—
November 2018 ^(g)	November 2028	3.950%	650	—	650	—	—
Total issuances			\$ 5,050	\$ 1,250	\$ 2,000	\$ 800	\$ 1,000

(a) Debt issued to pay down short-term debt.

(b) Debt issued to pay down short-term debt. Debt issuance has a floating debt rate.

(c) Callable after September 2023 at par. Junior subordinated hybrid debt issued to pay down short-term debt and for general corporate purposes.

(d) Debt issued to repay at maturity a \$300 million first mortgage bond due April 2018, pay down intercompany short-term debt and for general corporate purposes.

(e) Debt issued to repay a portion of intercompany short-term debt under the money pool borrowing arrangement and for general corporate purposes.

(f) Debt issued to repay short-term debt and for general corporate purposes.

(g) Debt issued to fund eligible green energy projects, including zero-carbon solar and energy storage, in the Carolinas.

Available Credit Facilities

In March 2019, Duke Energy amended its existing \$8 billion Master Credit Facility to extend the termination date to March 2024. The Duke Energy Registrants, excluding Progress Energy, have borrowing capacity under the Master Credit Facility up to a specified sublimit for each borrower. Duke Energy has the unilateral ability at any time to increase or decrease the borrowing sublimits of each borrower, subject to a maximum sublimit for each borrower.

The amount available under the Master Credit Facility has been reduced to backstop issuances of commercial paper, certain letters of credit and variable-rate demand tax-exempt bonds that may be put to the Duke Energy Registrants at the option of the holder. Duke Energy Carolinas and Duke Energy Progress are also required to each maintain \$250 million of available capacity under the Master Credit Facility as security to meet obligations under plea agreements reached with the U.S. Department of Justice in 2015 related to violations at North Carolina facilities with ash basins.

The table below includes the current borrowing sublimits and available capacity under these credit facilities.

(in millions)	December 31, 2019							
	Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Facility size ^(a)	\$ 8,000	\$ 2,650	\$ 1,500	\$ 1,250	\$ 800	\$ 600	\$ 600	\$ 600
Reduction to backstop issuances								
Commercial paper ^(b)	(2,537)	(1,119)	(325)	(207)	—	(296)	(176)	(414)
Outstanding letters of credit	(50)	(42)	(4)	(2)	—	—	—	(2)
Tax-exempt bonds	(81)	—	—	—	—	—	(81)	—
Coal ash set-aside	(500)	—	(250)	(250)	—	—	—	—
Available capacity	\$ 4,832	\$ 1,489	\$ 921	\$ 791	\$ 800	\$ 304	\$ 343	\$ 184

(a) Represents the sublimit of each borrower.

(b) Duke Energy issued \$625 million of commercial paper and loaned the proceeds through the money pool to Duke Energy Carolinas, Duke Energy Progress, Duke Energy Ohio and Duke Energy Indiana. The balances are classified as Long-Term Debt Payable to Affiliated Companies in the Consolidated Balance Sheets.

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Combined Notes to Consolidated Financial Statements – (Continued)

Three-Year Revolving Credit Facility

Duke Energy (Parent) has a \$1 billion revolving credit facility. The facility had an initial termination date of June 2020, but in May 2019, Duke Energy extended the termination date of the facility to May 2022. Borrowings under this facility will be used for general corporate purposes. As of December 31, 2019, \$500 million has been drawn under this facility. This balance is classified as Long-term debt on Duke Energy's Consolidated Balance Sheets. Any undrawn commitments can be drawn, and borrowings can be prepaid, at any time throughout the term of the facility. The terms and conditions of the facility are generally consistent with those governing Duke Energy's Master Credit Facility.

Duke Energy Progress Term Loan Facility

In December 2018, Duke Energy Progress entered into a two-year term loan facility with commitments totaling \$700 million. Borrowings under the facility were used to pay storm-related costs, pay down commercial paper and to partially finance an upcoming bond maturity. As of December 31, 2019, the entire \$700 million has been drawn under the term loan. This balance is classified as Current maturities of long-term debt on Duke Energy Progress' Consolidated Balance Sheets.

Piedmont Term Loan Facility

In May 2019, the \$350 million Piedmont term loan was paid off in full with proceeds from the \$600 million Piedmont debt offering.

Other Debt Matters

In September 2019, Duke Energy filed a Form S-3 with the SEC. Under this Form S-3, which is uncapped, the Duke Energy Registrants, excluding Progress Energy, may issue debt and other securities in the future at amounts, prices and with terms to be determined at the time of future offerings. The registration statement was filed to replace a similar prior filing upon expiration of its three-year term and also allows for the issuance of common and preferred stock by Duke Energy. The expired Form S-3 was amended in March 2019, to allow Duke Energy to issue preferred stock.

Duke Energy has an effective Form S-3 with the SEC to sell up to \$3 billion of variable denomination floating-rate demand notes, called PremierNotes. The Form S-3 states that no more than \$1.5 billion of the notes will be outstanding at any particular time. The notes are offered on a continuous basis and bear interest at a floating rate per annum determined by the Duke Energy PremierNotes Committee, or its designee, on a weekly basis. The interest rate payable on notes held by an investor may vary based on the principal amount of the investment. The notes have no stated maturity date, are non-transferable and may be redeemed in whole or in part by Duke Energy or at the investor's option at any time. The balance as of December 31, 2019, and 2018, was \$1,049 million and \$1,010 million, respectively. The notes are short-term debt

obligations of Duke Energy and are reflected as Notes payable and commercial paper on Duke Energy's Consolidated Balance Sheets.

Money Pool

The Subsidiary Registrants, excluding Progress Energy, are eligible to receive support for their short-term borrowing needs through participation with Duke Energy and certain of its subsidiaries in a money pool arrangement. Under this arrangement, those companies with short-term funds may provide short-term loans to affiliates participating in this arrangement. The money pool is structured such that the Subsidiary Registrants, excluding Progress Energy, separately manage their cash needs and working capital requirements. Accordingly, there is no net settlement of receivables and payables between money pool participants. Duke Energy (Parent), may loan funds to its participating subsidiaries, but may not borrow funds through the money pool. Accordingly, as the money pool activity is between Duke Energy and its wholly owned subsidiaries, all money pool balances are eliminated within Duke Energy's Consolidated Balance Sheets.

Money pool receivable balances are reflected within Notes receivable from affiliated companies on the Subsidiary Registrants' Consolidated Balance Sheets. Money pool payable balances are reflected within either Notes payable to affiliated companies or Long-Term Debt Payable to Affiliated Companies on the Subsidiary Registrants' Consolidated Balance Sheets.

Restrictive Debt Covenants

The Duke Energy Registrants' debt and credit agreements contain various financial and other covenants. Duke Energy's Master Credit Facility contains a covenant requiring the debt-to-total capitalization ratio not to exceed 65% for each borrower, excluding Piedmont, and 70% for Piedmont. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements. As of December 31, 2019, each of the Duke Energy Registrants was in compliance with all covenants related to their debt agreements. In addition, some credit agreements may allow for acceleration of payments or termination of the agreements due to nonpayment, or acceleration of other significant indebtedness of the borrower or some of its subsidiaries. None of the debt or credit agreements contain material adverse change clauses.

Other Loans

As of December 31, 2019, and 2018, Duke Energy had loans outstanding of \$777 million, including \$36 million at Duke Energy Progress and \$741 million, including \$37 million at Duke Energy Progress, respectively, against the cash surrender value of life insurance policies it owns on the lives of its executives. The amounts outstanding were carried as a reduction of the related cash surrender value that is included in Other within Other Noncurrent Assets on the Consolidated Balance Sheets.

8. GUARANTEES AND INDEMNIFICATIONS

Duke Energy has various financial and performance guarantees and indemnifications with non-consolidated entities, which are issued in the normal course of business. As discussed below, these contracts include performance guarantees, standby letters of credit, debt guarantees and indemnifications. Duke Energy enters into these arrangements to facilitate commercial transactions with third parties by enhancing the value of the transaction to the third party. At December 31, 2019, Duke Energy does not believe conditions are likely for significant performance under these guarantees. To the extent liabilities

are incurred as a result of the activities covered by the guarantees, such liabilities are included on the accompanying Consolidated Balance Sheets.

On January 2, 2007, Duke Energy completed the spin-off of its previously wholly-owned natural gas businesses to shareholders. Guarantees issued by Duke Energy or its affiliates, or assigned to Duke Energy prior to the spin-off, remained with Duke Energy subsequent to the spin-off. Guarantees issued by Spectra Capital or its affiliates prior to the spin-off remained with Spectra Capital subsequent to the spin-off, except for guarantees that were later

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Combined Notes to Consolidated Financial Statements – (Continued)

assigned to Duke Energy. Duke Energy has indemnified Spectra Capital against any losses incurred under certain of the guarantee obligations that remain with Spectra Capital. At December 31, 2019, the maximum potential amount of future payments associated with these guarantees were \$65 million, the majority of which expires by 2028.

In October 2017, ACP executed a \$3.4 billion revolving credit facility with a stated maturity date of October 2021. Duke Energy entered into a guarantee agreement to support its share of the ACP revolving credit facility. Duke Energy's maximum exposure to loss under the terms of the guarantee is \$827 million as of December 31, 2019. This amount represents 47% of the outstanding borrowings under the credit facility.

In addition to the Spectra Capital and ACP revolving credit facility guarantees above, Duke Energy has issued performance guarantees to customers and other third parties that guarantee the payment and performance of other parties, including certain non-wholly owned entities, as well as guarantees of debt of certain non-consolidated entities. If such entities were to default on payments or performance, Duke Energy would be required under the guarantees to make payments on the obligations of these entities. The maximum potential amount of future payments required under these guarantees as of December 31, 2019, was \$128 million, of which, \$114 million expire

between 2020 and 2030, with the remaining performance guarantees having no contractual expiration. Additionally, certain guarantees have uncapped maximum potential payments; however, Duke Energy does not believe these guarantees will have a material effect on its results of operations, cash flows or financial position.

Duke Energy uses bank-issued standby letters of credit to secure the performance of wholly owned and non-wholly owned entities to a third party or customer. Under these arrangements, Duke Energy has payment obligations to the issuing bank that are triggered by a draw by the third party or customer due to the failure of the wholly owned or non-wholly owned entity to perform according to the terms of its underlying contract. At December 31, 2019, Duke Energy had issued a total of \$634 million in letters of credit, which expire between 2020 and 2022. The unused amount under these letters of credit was \$81 million.

Duke Energy recognized \$23 million as of December 31, 2019, and 2018, primarily in Other within Other Noncurrent Liabilities on the Consolidated Balance Sheets, for the guarantees discussed above. As current estimates change, additional losses related to guarantees and indemnifications to third parties, which could be material, may be recorded by the Duke Energy Registrants in the future.

9. JOINT OWNERSHIP OF GENERATING AND TRANSMISSION FACILITIES

The Duke Energy Registrants maintain ownership interests in certain jointly owned generating and transmission facilities. The Duke Energy Registrants are entitled to a share of the generating capacity and output of each unit equal to their respective ownership interests. The Duke Energy Registrants pay their ownership share of additional construction costs, fuel

inventory purchases and operating expenses. The Duke Energy Registrants share of revenues and operating costs of the jointly owned facilities is included within the corresponding line in the Consolidated Statements of Operations. Each participant in the jointly owned facilities must provide its own financing.

The following table presents the Duke Energy Registrants' interest of jointly owned plant or facilities and amounts included on the Consolidated Balance Sheets. All facilities are operated by the Duke Energy Registrants and are included in the Electric Utilities and Infrastructure segment.

(in millions except for ownership interest)	December 31, 2019			
	Ownership Interest	Property, Plant and Equipment	Accumulated Depreciation	Construction Work in Progress
Duke Energy Carolinas				
Catawba (units 1 and 2) ^(a)	19.25%	\$ 1,011	\$ 510	\$ 21
W.S. Lee CC ^(b)	87.27%	609	32	1
Duke Energy Indiana				
Gibson (unit 5) ^(c)	50.05%	410	183	3
Vermillion ^(d)	62.50%	172	119	—
Transmission and local facilities ^(c)	Various	5,421	1,436	172

(a) Jointly owned with North Carolina Municipal Power Agency Number 1, NCEMC and PMPA.

(b) Jointly owned with NCEMC.

(c) Jointly owned with WVPA and IMPA.

(d) Jointly owned with WVPA.

10. ASSET RETIREMENT OBLIGATIONS

Duke Energy records an ARO when it has a legal obligation to incur retirement costs associated with the retirement of a long-lived asset and the obligation can be reasonably estimated. Certain assets of the Duke Energy Registrants have an indeterminate life, such as transmission and distribution facilities, and thus the fair value of the retirement obligation is not reasonably estimable. A liability for these AROs will be recorded when a fair value is determinable.

The Duke Energy Registrants' regulated operations accrue costs of removal for property that does not have an associated legal retirement obligation based on regulatory orders from state commissions. These costs of removal are recorded as a regulatory liability in accordance with regulatory accounting treatment. The Duke Energy Registrants do not accrue the estimated cost of removal for any nonregulated assets. See Note 4 for the estimated cost of removal for assets without an associated legal retirement obligation, which are included in Regulatory liabilities on the Consolidated Balance Sheets.

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Combined Notes to Consolidated Financial Statements – (Continued)

The following table presents the AROs recorded on the Consolidated Balance Sheets.

	December 31, 2019							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Decommissioning of nuclear power facilities ^(a)	\$ 6,633	\$ 2,551	\$ 4,028	\$ 3,499	\$ 529	\$ —	\$ —	\$ —
Closure of ash impoundments	6,333	3,118	2,368	2,352	16	41	805	—
Other	352	65	75	42	33	39	27	17
Total asset retirement obligation	\$ 13,318	\$ 5,734	\$ 6,471	\$ 5,893	\$ 578	\$ 80	\$ 832	\$ 17
Less: current portion	881	206	485	485	—	1	189	—
Total noncurrent asset retirement obligation	\$ 12,437	\$ 5,528	\$ 5,986	\$ 5,408	\$ 578	\$ 79	\$ 643	\$ 17

(a) Duke Energy amount includes purchase accounting adjustments related to the merger with Progress Energy.

Nuclear Decommissioning Liability

AROs related to nuclear decommissioning are based on site-specific cost studies. The NCUC, PSCSC and FPSC require updated cost estimates for decommissioning nuclear plants every five years.

The following table summarizes information about the most recent site-specific nuclear decommissioning cost studies. Decommissioning costs are stated in 2018 or 2019 dollars, depending on the year of the cost study, and include costs to decommission plant components not subject to radioactive contamination.

(in millions)	Annual Funding Requirement ^(a)	Decommissioning Costs ^(a)	Year of Cost Study
Duke Energy	\$ 24	\$ 9,152	2018 and 2019
Duke Energy Carolinas ^{(b)(c)}	—	4,365	2018
Duke Energy Progress ^(d)	24	4,181	2019
Duke Energy Florida ^(e)	—	606	2019

(a) Amounts for Progress Energy equal the sum of Duke Energy Progress and Duke Energy Florida.

(b) Decommissioning cost for Duke Energy Carolinas reflects its ownership interest in jointly owned reactors. Other joint owners are responsible for decommissioning costs related to their interest in the reactors.

(c) Duke Energy Carolinas' site-specific nuclear decommissioning cost study completed in 2018 was filed with the NCUC and PSCSC in 2019. A new funding study was also completed and filed with the NCUC and PSCSC in 2019.

(d) Duke Energy Progress' site-specific nuclear decommissioning cost study completed in 2019 is expected to be filed with the NCUC and PSCSC during the first quarter 2020. Duke Energy Progress will also complete a new funding study, which will be completed and filed with the NCUC and PSCSC in July 2020.

(e) During 2019, Duke Energy Florida reached an agreement to transfer decommissioning work for Crystal River Unit 3 to a third party. The agreement requires regulatory approval from the NRC and the FPSC. See Note 4 for more information.

Nuclear Decommissioning Trust Funds

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida each maintain NDTFs that are intended to pay for the decommissioning costs of their respective nuclear power plants. The NDTF investments are managed and invested in accordance with applicable requirements of various regulatory bodies including the NRC, FERC, NCUC, PSCSC, FPSC and the IRS.

Use of the NDTF investments is restricted to nuclear decommissioning activities including license termination, spent fuel and site restoration. The license termination and spent fuel obligations relate to contaminated decommissioning and are recorded as AROs. The site restoration obligation relates to non-contaminated decommissioning and is recorded to cost of removal within Regulatory liabilities on the Consolidated Balance Sheets.

The following table presents the fair value of NDTF assets legally restricted for purposes of settling AROs associated with nuclear decommissioning. Duke Energy Florida is actively decommissioning Crystal River Unit 3 and was granted an exemption from the NRC, which allows for use of the NDTF for all aspects of nuclear decommissioning. The entire balance of Duke Energy Florida's NDTF may be applied toward license termination, spent fuel and site restoration costs incurred to decommission Crystal River Unit 3 and is excluded from the table below. See Note 17 for additional information related to the fair value of the Duke Energy Registrants' NDTFs.

	December 31,	
(in millions)	2019	2018
Duke Energy	\$ 6,766	\$ 5,579
Duke Energy Carolinas	3,837	3,133
Duke Energy Progress	2,929	2,446

Nuclear Operating Licenses

Operating licenses for nuclear units are potentially subject to extension. The following table includes the current expiration of nuclear operating licenses.

Unit	Year of Expiration
Duke Energy Carolinas	
Catawba Units 1 and 2	2043
McGuire Unit 1	2041
McGuire Unit 2	2043
Oconee Units 1 and 2	2033
Oconee Unit 3	2034
Duke Energy Progress	
Brunswick Unit 1	2036
Brunswick Unit 2	2034
Harris	2046
Robinson	2030

The NRC has acknowledged permanent cessation of operation and permanent removal of fuel from the reactor vessel at Crystal River Unit 3. Therefore, the license no longer authorizes operation of the reactor. In 2019, Duke Energy Florida entered into an agreement for the accelerated decommissioning of Crystal River Unit 3. The agreement is subject to the approval of the NRC and FPSC. See Note 4 for more information.

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Combined Notes to Consolidated Financial Statements – (Continued)

Closure of Ash Impoundments

The Duke Energy Registrants are subject to state and federal regulations covering the closure of coal ash impoundments, including the EPA CCR rule and the Coal Ash Act, and other agreements. AROs recorded on the Duke Energy Registrants' Consolidated Balance Sheets include the legal obligation for closure of coal ash basins and the disposal of related ash as a result of these regulations and agreements.

The ARO amount recorded on the Consolidated Balance Sheets is based upon estimated closure costs for impacted ash impoundments. The amount recorded represents the discounted cash flows for estimated closure costs based upon specific closure plans. Actual costs to be incurred will be dependent upon factors that vary from site to site. The most significant factors are the method and time frame of closure at the individual sites. Closure methods considered include removing the water from ash basins, consolidating material as necessary and capping the ash with a synthetic barrier, excavating and relocating the ash to a lined structural fill or lined landfill or recycling the ash for

concrete or some other beneficial use. The ultimate method and timetable for closure will be in compliance with standards set by federal and state regulations and other agreements. The ARO amount will be adjusted as additional information is gained through the closure and post-closure process, including acceptance and approval of compliance approaches, which may change management assumptions, and may result in a material change to the balance. See ARO Liability Rollforward section below for information on revisions made to the coal ash liability during 2019 and 2018.

Asset retirement costs associated with the AROs for operating plants and retired plants are included in Net property, plant and equipment and Regulatory assets, respectively, on the Consolidated Balance Sheets. See Note 4 for additional information on Regulatory assets related to AROs.

Cost recovery for future expenditures will be pursued through the normal ratemaking process with federal and state utility commissions, which permit recovery of necessary and prudently incurred costs associated with Duke Energy's regulated operations. See Note 4 for additional information on recovery of coal ash costs.

ARO Liability Rollforward

The following tables present changes in the liability associated with AROs.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Balance at December 31, 2017	\$ 10,175	\$ 3,610	\$ 5,414	\$ 4,673	\$ 742	\$ 84	\$ 781	\$ 15
Accretion expense ^(a)	427	179	225	196	29	4	29	1
Liabilities settled ^(b)	(638)	(281)	(272)	(227)	(45)	(5)	(79)	—
Liabilities incurred in the current year ^(c)	39	8	5	—	5	—	25	—
Revisions in estimates of cash flows	464	433	39	178	(140)	10	(34)	3
Balance at December 31, 2018	10,467	3,949	5,411	4,820	591	93	722	19
Accretion expense ^(a)	508	235	252	227	25	3	28	1
Liabilities settled ^(b)	(895)	(329)	(499)	(460)	(39)	(12)	(54)	—
Liabilities incurred in the current year	25	18	7	—	7	—	—	—
Revisions in estimates of cash flows ^(d)	3,213	1,861	1,300	1,306	(6)	(4)	136	(3)
Balance at December 31, 2019	\$ 13,318	\$ 5,734	\$ 6,471	\$ 5,893	\$ 578	\$ 80	\$ 832	\$ 17

(a) Substantially all accretion expense for the years ended December 31, 2019, and 2018, relates to Duke Energy's regulated operations and has been deferred in accordance with regulatory accounting treatment.

(b) Amounts primarily relate to ash impoundment closures and nuclear decommissioning of Crystal River Unit 3.

(c) Amounts primarily relate to AROs recorded as a result of state agency closure requirements at Duke Energy Indiana.

(d) Amounts primarily relate to increases in closure estimates for certain ash impoundments as a result of the NCDEQ's April 1 Order and the related settlement agreement dated December 31, 2019. See Note 5 for more information. The amount recorded in the fourth quarter of 2019 for coal ash closures as a result of the settlement was not material.

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Combined Notes to Consolidated Financial Statements – (Continued)

11. PROPERTY, PLANT AND EQUIPMENT

The following tables summarize the property, plant and equipment for Duke Energy and its subsidiary registrants.

(in millions)	Estimated Useful Life (Years)	December 31, 2019							
		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Land		\$ 2,091	\$ 520	\$ 884	\$ 449	\$ 435	\$ 150	\$ 117	\$ 388
Plant – Regulated									
Electric generation, distribution and transmission	15-100	111,739	42,723	48,142	30,018	18,124	5,838	15,032	—
Natural gas transmission and distribution	4-73	9,839	—	—	—	—	2,892	—	6,947
Other buildings and improvements	23-90	1,810	714	401	162	239	269	278	148
Plant – Nonregulated									
Electric generation, distribution and transmission	5-30	5,103	—	—	—	—	—	—	—
Other buildings and improvements	25-35	488	—	—	—	—	—	—	—
Nuclear fuel		3,253	1,891	1,362	1,362	—	—	—	—
Equipment	3-25	2,313	546	665	452	213	319	205	128
Construction in process		6,102	1,389	2,149	1,114	1,035	504	381	531
Other	2-40	4,916	1,139	1,467	1,046	411	269	292	304
Total property, plant and equipment ^{(a)(e)}		147,654	48,922	55,070	34,603	20,457	10,241	16,305	8,446
Total accumulated depreciation – regulated ^{(b)(c)}		(43,419)	(16,525)	(17,159)	(11,915)	(5,236)	(2,843)	(5,233)	(1,681)
Total accumulated depreciation – nonregulated ^{(d)(e)}		(2,354)	—	—	—	—	—	—	—
Generation facilities to be retired, net		246	—	246	246	—	—	—	—
Total net property, plant and equipment		\$102,127	\$ 32,397	\$ 38,157	\$ 22,934	\$15,221	\$ 7,398	\$11,072	\$ 6,765

(a) Includes finance leases of \$952 million, \$211 million, \$443 million, \$308 million, \$135 million and \$10 million at Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana, respectively, primarily within Plant – Regulated. The Progress Energy, Duke Energy Progress and Duke Energy Florida amounts are net of \$143 million, \$17 million and \$126 million, respectively, of accumulated amortization of finance leases.

(b) Includes \$1,807 million, \$1,082 million, \$725 million and \$725 million of accumulated amortization of nuclear fuel at Duke Energy, Duke Energy Carolinas, Progress Energy and Duke Energy Progress, respectively.

(c) Includes accumulated amortization of finance leases of \$6 million, \$13 million and \$3 million at Duke Energy, Duke Energy Carolinas and Duke Energy Indiana, respectively.

(d) Includes accumulated amortization of finance leases of \$20 million at Duke Energy.

(e) Includes gross property, plant and equipment cost of consolidated VIEs of \$5,747 million and accumulated depreciation of consolidated VIEs of \$1,041 million at Duke Energy.

During the year ended December 31, 2019, Duke Energy evaluated recoverability of the wind and solar generation assets included in the minority interest sale as a result of the portfolio fair value of consideration received being less than the carrying value of the assets and determined the assets were all recoverable. Additionally, in 2019, Duke Energy evaluated recoverability of its renewable merchant plants principally located in the Electric Reliability Council

of Texas West market due to declining market pricing and declining long-term forecasted energy prices, primarily driven by lower forecasted natural gas prices. Duke Energy determined that the assets were not impaired because the carrying value of \$160 million approximates the aggregate estimated future cash flows. A continued decline in energy market pricing would likely result in a future impairment.

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Estimated Useful Life (Years)	December 31, 2018							
		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Land		\$ 2,072	\$ 472	\$ 868	\$ 445	\$ 423	\$ 136	\$ 116	\$ 448
Plant – Regulated									
Electric generation, distribution and transmission	15-100	100,706	38,468	42,760	26,147	16,613	5,182	14,292	—
Natural gas transmission and distribution	12-80	8,808	—	—	—	—	2,719	—	6,089
Other buildings and improvements	24-90	1,966	681	636	295	341	270	253	126
Plant – Nonregulated									
Electric generation, distribution and transmission	5-30	4,410	—	—	—	—	—	—	—
Other buildings and improvements	25-35	494	—	—	—	—	—	—	—
Nuclear fuel		3,460	1,898	1,562	1,562	—	—	—	—
Equipment	3-55	2,141	467	565	399	166	384	178	141
Construction in process		5,726	1,678	2,515	1,659	856	412	325	382
Other	3-40	4,675	1,077	1,354	952	393	257	279	300
Total property, plant and equipment ^{(a)(d)}		134,458	44,741	50,260	31,459	18,792	9,360	15,443	7,486
Total accumulated depreciation – regulated ^{(b)(c)(d)}		(41,079)	(15,496)	(16,398)	(11,423)	(4,968)	(2,717)	(4,914)	(1,575)
Total accumulated depreciation – nonregulated ^{(c)(d)}		(2,047)	—	—	—	—	—	—	—
Generation facilities to be retired, net		362	—	362	362	—	—	—	—
Total net property, plant and equipment		\$ 91,694	\$ 29,245	\$ 34,224	\$ 20,398	\$13,824	\$ 6,643	\$10,529	\$ 5,911

- (a) Includes finance leases of \$1,237 million, \$135 million, \$257 million, \$137 million, \$120 million, \$73 million and \$35 million at Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio and Duke Energy Indiana, respectively, primarily within Plant – Regulated. The Progress Energy, Duke Energy Progress and Duke Energy Florida amounts are net of \$131 million, \$14 million and \$117 million, respectively, of accumulated amortization of finance leases.
- (b) Includes \$1,947 million, \$1,087 million, \$860 million and \$860 million of accumulated amortization of nuclear fuel at Duke Energy, Duke Energy Carolinas, Progress Energy and Duke Energy Progress, respectively.
- (c) Includes accumulated amortization of finance leases of \$61 million, \$12 million, \$20 million and \$10 million at Duke Energy, Duke Energy Carolinas, Duke Energy Ohio and Duke Energy Indiana, respectively.
- (d) Includes gross property, plant and equipment cost of consolidated VIEs of \$4,007 million and accumulated depreciation of consolidated VIEs of \$698 million at Duke Energy.

During the year ended December 31, 2017, Duke Energy recorded a pretax impairment charge of \$69 million on a wholly owned non-contracted wind project. The impairment was recorded within Impairment charges on Duke Energy's Consolidated Statements of Operations. \$58 million of the impairment related to property, plant and equipment and \$11 million of the impairment related to a net intangible asset. The charge represents the excess carrying value over the estimated fair value of the project, which was based on a Level 3

Fair Value measurement that was determined from the income approach using discounted cash flows. The impairment was primarily due to the non-contracted wind project being located in a market that has experienced continued declining market pricing during 2017 and declining long-term forecasted energy and capacity prices, driven by low natural gas prices, additional renewable generation placed in service and lack of significant load growth.

The following tables present capitalized interest, which includes the debt component of AFUDC.

(in millions)	Years Ended December 31,		
	2019	2018	2017
Duke Energy	\$159	\$161	\$128
Duke Energy Carolinas	30	35	45
Progress Energy	31	51	45
Duke Energy Progress	28	26	21
Duke Energy Florida	3	25	24
Duke Energy Ohio	22	17	10
Duke Energy Indiana	26	27	9
Piedmont	26	17	12

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Combined Notes to Consolidated Financial Statements – (Continued)

12. GOODWILL AND INTANGIBLE ASSETS

GOODWILL

Duke Energy

The following table presents goodwill by reportable segment for Duke Energy included on Duke Energy's Consolidated Balance Sheets at December 31, 2019, and 2018.

(in millions)	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total
Goodwill Balance at December 31, 2018	\$ 17,379	\$ 1,924	\$ 122	\$ 19,425
Accumulated impairment charges ^(a)	—	—	(122)	(122)
Goodwill balance at December 31, 2018, adjusted for accumulated impairment charges	\$ 17,379	\$ 1,924	\$ —	\$ 19,303
Goodwill Balance at December 31, 2019	\$ 17,379	\$ 1,924	\$ 122	\$ 19,425
Accumulated impairment charges^(a)	—	—	(122)	(122)
Goodwill balance at December 31, 2019, adjusted for accumulated impairment charges	\$ 17,379	\$ 1,924	\$ —	\$ 19,303

(a) Duke Energy evaluated the recoverability of goodwill during 2018 and 2017 and recorded impairment charges of \$93 million and \$29 million, respectively, related to the Commercial Renewables reporting unit included in Impairment charges on Duke Energy's Consolidated Statements of Operations. The fair value of the reporting unit was determined based on the income approach and market approach in 2018 and 2017, respectively. See "Goodwill Impairment Testing" below for the results of the 2019 goodwill impairment test.

Duke Energy Ohio

Duke Energy Ohio's Goodwill balance of \$920 million, allocated \$596 million to Electric Utilities and Infrastructure and \$324 million to Gas Utilities and Infrastructure, is presented net of accumulated impairment charges of \$216 million on the Consolidated Balance Sheets at December 31, 2019, and 2018.

Progress Energy

Progress Energy's Goodwill is included in the Electric Utilities and Infrastructure segment and there are no accumulated impairment charges.

Piedmont

Piedmont's Goodwill is included in the Gas Utilities and Infrastructure segment and there are no accumulated impairment charges.

Goodwill Impairment Testing

Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont are required to perform an annual goodwill impairment test as of the same date each year and, accordingly, perform their annual impairment testing of goodwill as of August 31. Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont update their test between annual tests if events or circumstances occur that would more likely than not reduce the fair value of a reporting unit below its carrying value. As the fair value for Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont exceeded their respective carrying values at the date of the annual impairment analysis, no goodwill impairment charges were recorded in 2019.

Intangible Assets

The following tables show the carrying amount and accumulated amortization of intangible assets included in Other within Other Noncurrent Assets on the Consolidated Balance Sheets of the Duke Energy Registrants at December 31, 2019, and 2018.

	December 31, 2019							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Emission allowances	\$ 18	\$ —	\$ 5	\$ 2	\$ 3	\$ —	\$ 12	\$ —
Renewable energy certificates	172	53	118	118	—	1	—	—
Natural gas, coal and power contracts	24	—	—	—	—	—	24	—
Renewable operating and development projects	89	—	—	—	—	—	—	—
Other	2	—	—	—	—	—	—	—
Total gross carrying amounts	305	53	123	120	3	1	36	—
Accumulated amortization – natural gas, coal and power contracts	(21)	—	—	—	—	—	(21)	—
Accumulated amortization – renewable operating and development projects	(34)	—	—	—	—	—	—	—
Accumulated amortization – other	(1)	—	—	—	—	—	—	—
Total accumulated amortization	(56)	—	—	—	—	—	(21)	—
Total intangible assets, net	\$ 249	\$ 53	\$ 123	\$ 120	\$ 3	\$ 1	\$ 15	\$ —

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Emission allowances	\$ 18	\$ —	\$ 5	\$ 2	\$ 3	\$ —	\$ 12	\$ —
Renewable energy certificates	168	46	120	120	—	2	—	—
Natural gas, coal and power contracts	24	—	—	—	—	—	24	—
Renewable operating and development projects	84	—	—	—	—	—	—	—
Other	6	—	—	—	—	—	—	3
Total gross carrying amounts	300	46	125	122	3	2	36	3
Accumulated amortization – natural gas, coal and power contracts	(20)	—	—	—	—	—	(20)	—
Accumulated amortization – renewable operating and development projects	(29)	—	—	—	—	—	—	—
Accumulated amortization – other	(5)	—	—	—	—	—	—	(3)
Total accumulated amortization	(54)	—	—	—	—	—	(20)	(3)
Total intangible assets, net	\$ 246	\$ 46	\$ 125	\$ 122	\$ 3	\$ 2	\$ 16	\$ —

See Note 11 for information related to 2017 impairment charge.

Amortization Expense

Amortization expense amounts for natural gas, coal and power contracts, renewable operating projects and other intangible assets are immaterial for the years ended December 31, 2019, 2018 and 2017, and are expected to be immaterial for the next five years as of December 31, 2019.

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Combined Notes to Consolidated Financial Statements – (Continued)

13. INVESTMENTS IN UNCONSOLIDATED AFFILIATES

EQUITY METHOD INVESTMENTS

Investments in affiliates that are not controlled by Duke Energy, but over which it has significant influence, are accounted for using the equity method.

The following table presents Duke Energy's investments in unconsolidated affiliates accounted for under the equity method, as well as the respective equity in earnings, by segment.

(in millions)	Years Ended December 31,					
	2019		2018		2017	
	Investments	Equity in earnings	Investments	Equity in earnings	Investments	Equity in earnings
Electric Utilities and Infrastructure	\$ 122	\$ 9	\$ 97	\$ 6	\$ 89	\$ 5
Gas Utilities and Infrastructure	1,388	114	1,003	27	763	62
Commercial Renewables	314	(4)	201	(1)	190	(5)
Other	112	43	108	51	133	57
Total	\$ 1,936	\$ 162	\$ 1,409	\$ 83	\$ 1,175	\$ 119

During the years ended December 31, 2019, 2018 and 2017, Duke Energy received distributions from equity investments of \$55 million, \$108 million and \$13 million, respectively, which are included in Other assets within Cash Flows from Operating Activities on the Consolidated Statements of Cash Flows. During the years ended December 31, 2019, 2018 and 2017, Duke Energy received distributions from equity investments of \$11 million, \$137 million and \$281 million, respectively, which are included in Return of investment capital within Cash Flows from Investing Activities on the Consolidated Statements of Cash Flows.

During the years ended December 31, 2019, 2018 and 2017, Piedmont received distributions from equity investments of \$1 million, \$1 million and \$4 million, respectively, which are included in Other assets within Cash Flows from Operating Activities and \$4 million, \$3 million and \$2 million, respectively, which are included within Cash Flows from Investing Activities on the Consolidated Statements of Cash Flows.

Significant investments in affiliates accounted for under the equity method are discussed below.

Electric Utilities and Infrastructure

Duke Energy owns a 50% interest in DATC and in Pioneer, which build, own and operate electric transmission facilities in North America.

Gas Utilities and Infrastructure

The table below outlines Duke Energy's ownership interests in natural gas pipeline companies and natural gas storage facilities.

Entity Name	Ownership Interest	Investment Amount (in millions)	
		December 31, 2019	December 31, 2018
Pipeline Investments			
ACP	47%	\$ 1,179	\$ 797
Sabal Trail	7.5%	121	112 ^(c)
Constitution	24%	—	25
Cardinal ^(a)	21.49%	9	10
Storage Facilities			
Pine Needle ^(a)	45%	28	13
Hardy Storage ^(a)	50%	51	46
Total Investments ^(b)		\$ 1,388	\$ 1,003

(a) Piedmont owns the Cardinal, Pine Needle and Hardy Storage investments.

(b) Duke Energy includes purchase accounting adjustments related to Piedmont.

(c) Sabal Trail returned capital of \$112 million during the year ended December 31, 2018.

In October 2017, Duke Energy entered into a guarantee agreement to support its share of the ACP revolving credit facility. See Note 8 for additional information. As a result of the financing, ACP returned capital of \$265 million to Duke Energy.

During 2018 and 2019, ACP received several adverse court rulings as described in Note 4. As a result, Duke Energy evaluated this investment for impairment and determined that fair value approximated carrying value and therefore no impairment was necessary.

For regulatory matters and other information on the ACP, Sabal Trail and Constitution investments, see Notes 4 and 18.

Commercial Renewables

DS Cornerstone, LLC, which owns wind farm projects in the U.S. was part of a sale of minority interest in a certain portion of renewable assets to John Hancock in 2019. See Note 2 for more information on the sale. Prior to the sale, Duke Energy had a 50% interest in DS Cornerstone, LLC. After the sale, Duke Energy has a 26% interest in the investment.

In 2019, Duke Energy acquired a majority ownership in a portfolio of distributed fuel cell projects from Bloom Energy Corporation. Duke Energy is not the primary beneficiary of the assets within the portfolio and does not consolidate the assets in the portfolio.

Impairment of Equity Method Investments

Duke Energy recorded OTTI of the Constitution investment within Equity in earnings of unconsolidated affiliates on Duke Energy's Consolidated Statements of Operations of \$25 million and \$55 million for the years ended December 31, 2019, and 2018, respectively. The current year charge resulted in the full write-down of Duke Energy's investment in Constitution. The impairments were primarily due to the continued delay in resolving project uncertainty through the courts and regulatory bodies, as well as recent pricing concerns between the customers and owners. For additional information on the Constitution investment, see Note 4.

Other

Duke Energy owns a 17.5% indirect interest in NMC, which owns and operates a methanol and MTBE business in Jubail, Saudi Arabia. Duke Energy's economic ownership interest decreased from 25% to 17.5% with the successful startup of NMC's polyacetal production facility in 2017. Duke Energy retains 25% of the board representation and voting rights of NMC.

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

14. RELATED PARTY TRANSACTIONS

The Subsidiary Registrants engage in related party transactions in accordance with the applicable state and federal commission regulations. Refer to the Consolidated Balance Sheets of the Subsidiary Registrants for balances due to or due from related parties. Material amounts related to transactions with related parties included in the Consolidated Statements of Operations and Comprehensive Income are presented in the following table.

(in millions)	Years Ended December 31,		
	2019	2018	2017
Duke Energy Carolinas			
Corporate governance and shared service expenses ^(a)	\$ 841	\$ 985	\$ 858
Indemnification coverages ^(b)	20	22	23
Joint Dispatch Agreement (JDA) revenue ^(c)	60	84	49
JDA expense ^(c)	186	207	145
Intercompany natural gas purchases ^(d)	15	15	9
Progress Energy			
Corporate governance and shared service expenses ^(a)	\$ 778	\$ 906	\$ 736
Indemnification coverages ^(b)	37	34	38
JDA revenue ^(c)	186	207	145
JDA expense ^(c)	60	84	49
Intercompany natural gas purchases ^(d)	76	78	77
Duke Energy Progress			
Corporate governance and shared service expenses ^(a)	\$ 462	\$ 577	\$ 438
Indemnification coverages ^(b)	15	13	15
JDA revenue ^(c)	186	207	145
JDA expense ^(c)	60	84	49
Intercompany natural gas purchases ^(d)	76	78	77
Duke Energy Florida			
Corporate governance and shared service expenses ^(a)	\$ 316	\$ 329	\$ 298
Indemnification coverages ^(b)	22	21	23
Duke Energy Ohio			
Corporate governance and shared service expenses ^(a)	\$ 354	\$ 374	\$ 363
Indemnification coverages ^(b)	4	5	5
Duke Energy Indiana			
Corporate governance and shared service expenses ^(a)	\$ 412	\$ 405	\$ 370
Indemnification coverages ^(b)	7	7	8

Intercompany Income Taxes

Duke Energy and the Subsidiary Registrants file a consolidated federal income tax return and other state and jurisdictional returns. The Subsidiary Registrants have a tax sharing agreement with Duke Energy for the allocation of consolidated tax liabilities and benefits. Income taxes recorded represent amounts the Subsidiary Registrants would incur as separate C-Corporations. The following table includes the balance of intercompany income tax receivables and payables for the Subsidiary Registrants.

(in millions)	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
December 31, 2019							
Intercompany income tax receivable	\$ —	\$ 125	\$ 28	\$ —	\$ 9	\$ 28	\$ 13
Intercompany income tax payable	5	—	—	2	—	—	—
December 31, 2018							
Intercompany income tax receivable	\$ 52	\$ 47	\$ 29	\$ —	\$ —	\$ 8	\$ —
Intercompany income tax payable	—	—	—	16	3	—	45

(in millions)	Years Ended December 31,		
	2019	2018	2017
Piedmont			
Corporate governance and shared service expenses ^(a)	\$ 138	\$ 170	\$ 50
Indemnification coverages ^(b)	3	2	2
Intercompany natural gas sales ^(d)	91	93	86
Natural gas storage and transportation costs ^(a)	23	25	25

- (a) The Subsidiary Registrants are charged their proportionate share of corporate governance and other shared services costs, primarily related to human resources, employee benefits, information technology, legal and accounting fees, as well as other third-party costs. These amounts are primarily recorded in Operation, maintenance and other on the Consolidated Statements of Operations and Comprehensive Income.
- (b) The Subsidiary Registrants incur expenses related to certain indemnification coverages through Bison, Duke Energy's wholly owned captive insurance subsidiary. These expenses are recorded in Operation, maintenance and other on the Consolidated Statements of Operations and Comprehensive Income.
- (c) Duke Energy Carolinas and Duke Energy Progress participate in a JDA, which allows the collective dispatch of power plants between the service territories to reduce customer rates. Revenues from the sale of power and expenses from the purchase of power pursuant to the JDA are recorded in Operating Revenues and Fuel used in electric generation and purchased power, respectively, on the Consolidated Statements of Operations and Comprehensive Income.
- (d) Piedmont provides long-term natural gas delivery service to certain Duke Energy Carolinas and Duke Energy Progress natural gas-fired generation facilities. Piedmont records the sales in Operating Revenues, and Duke Energy Carolinas and Duke Energy Progress record the related purchases as a component of Fuel used in electric generation and purchased power on their respective Consolidated Statements of Operations and Comprehensive Income. These intercompany revenues and expenses are eliminated in consolidation.
- (e) Piedmont has related party transactions as a customer of its equity method investments in Pine Needle, Hardy Storage, and Cardinal natural gas storage and transportation facilities. These expenses are included in Cost of natural gas on Piedmont's Consolidated Statements of Operations and Comprehensive Income.

In addition to the amounts presented above, the Subsidiary Registrants have other affiliate transactions, including rental of office space, participation in a money pool arrangement, other operational transactions and their proportionate share of certain charged expenses. See Note 7 for more information regarding money pool. These transactions of the Subsidiary Registrants are incurred in the ordinary course of business and are eliminated in consolidation.

As discussed in Note 18, certain trade receivables have been sold by Duke Energy Ohio and Duke Energy Indiana to CRC, an affiliate formed by a subsidiary of Duke Energy. The proceeds obtained from the sales of receivables are largely cash but do include a subordinated note from CRC for a portion of the purchase price.

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

15. DERIVATIVES AND HEDGING

The Duke Energy Registrants use commodity and interest rate contracts to manage commodity price risk and interest rate risk. The primary use of commodity derivatives is to hedge the generation portfolio against changes in the prices of electricity and natural gas. Piedmont enters into natural gas supply contracts to provide diversification, reliability and natural gas cost benefits to its customers. Interest rate derivatives are used to manage interest rate risk associated with borrowings.

All derivative instruments not identified as NPNS are recorded at fair value as assets or liabilities on the Consolidated Balance Sheets. Cash collateral related to derivative instruments executed under master netting arrangements is offset against the collateralized derivatives on the Consolidated Balance Sheets. The cash impacts of settled derivatives are recorded as operating activities on the Consolidated Statements of Cash Flows.

INTEREST RATE RISK

The Duke Energy Registrants are exposed to changes in interest rates as a result of their issuance or anticipated issuance of variable-rate and fixed-rate debt and commercial paper. Interest rate risk is managed by limiting variable-rate exposures to a percentage of total debt and by monitoring changes in interest rates. To manage risk associated with changes in interest rates, the Duke Energy Registrants may enter into interest rate swaps, U.S. Treasury lock agreements and other financial contracts. In anticipation of certain fixed-rate debt issuances, a series of forward-starting interest rate swaps or Treasury locks may be executed to lock in components of current market interest rates. These instruments are later terminated prior to or upon the issuance of the corresponding debt.

The following tables show notional amounts of outstanding derivatives related to interest rate risk.

(in millions)	December 31, 2019					
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio
Cash flow hedges	\$ 993	\$ —	\$ —	\$ —	\$ —	\$ —
Undesignated contracts	1,277	450	800	250	550	27
Total notional amount ^(a)	\$ 2,270	\$ 450	\$ 800	\$ 250	\$ 550	\$ 27

(in millions)	December 31, 2018					
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio
Cash flow hedges ^(a)	\$ 923	\$ —	\$ —	\$ —	\$ —	\$ —
Undesignated contracts	1,721	300	1,200	650	550	27
Total notional amount	\$ 2,644	\$ 300	\$ 1,200	\$ 650	\$ 550	\$ 27

(a) Duke Energy includes amounts related to consolidated VIEs of \$693 million in cash flow hedges as of December 31, 2019, and \$422 million in cash flow hedges and \$194 million in undesignated contracts as of December 31, 2018.

COMMODITY PRICE RISK

The Duke Energy Registrants are exposed to the impact of changes in the prices of electricity purchased and sold in bulk power markets and coal and natural gas purchases, including Piedmont's natural gas supply contracts. Exposure to commodity price risk is influenced by a number of factors including the term of contracts, the liquidity of markets and delivery locations. For the Subsidiary Registrants, bulk power electricity and coal and natural gas

Cash Flow Hedges

For a derivative designated as hedging the exposure to variable cash flows of a future transaction, referred to as a cash flow hedge, the effective portion of the derivative's gain or loss is initially reported as a component of other comprehensive income and subsequently reclassified into earnings once the future transaction impacts earnings. Amounts for interest rate contracts are reclassified to earnings as interest expense over the term of the related debt. Gains and losses reclassified out of AOCI for the years ended December 31, 2019, 2018 and 2017 were not material. Duke Energy's interest rate derivatives designated as hedges include interest rate swaps used to hedge existing debt within the Commercial Renewables business and forward-starting interest rate swaps not accounted for under regulatory accounting.

Undesignated Contracts

Undesignated contracts primarily include contracts not designated as a hedge because they are accounted for under regulatory accounting or contracts that do not qualify for hedge accounting.

Duke Energy's interest rate swaps for its regulated operations employ regulatory accounting. With regulatory accounting, the mark-to-market gains or losses on the swaps are deferred as regulatory liabilities or regulatory assets, respectively. Regulatory assets and liabilities are amortized consistent with the treatment of the related costs in the ratemaking process. The accrual of interest on the swaps is recorded as Interest Expense on the Duke Energy Registrant's Consolidated Statements of Operations and Comprehensive Income.

purchases flow through fuel adjustment clauses, formula based contracts or other cost sharing mechanisms. Differences between the costs included in rates and the incurred costs, including undesignated derivative contracts, are largely deferred as regulatory assets or regulatory liabilities. Piedmont policies allow for the use of financial instruments to hedge commodity price risks. The strategy and objective of these hedging programs are to use the financial instruments to reduce gas cost volatility for customers.

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

Volumes

The tables below include volumes of outstanding commodity derivatives. Amounts disclosed represent the absolute value of notional volumes of commodity contracts excluding NPNS. The Duke Energy Registrants have netted contractual amounts where offsetting purchase and sale contracts exist with identical delivery locations and times of delivery. Where all commodity positions are perfectly offset, no quantities are shown.

December 31, 2019								
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Electricity (GWh)	15,858	—	—	—	—	1,887	13,971	—
Natural gas (millions of Dth)	704	130	160	160	—	—	3	411

December 31, 2018								
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Electricity (GWh)	15,286	—	—	—	—	1,786	13,500	—
Natural gas (millions of Dth)	739	121	169	166	3	—	1	448

U.S. EQUITY SECURITIES RISK

In May 2019, Duke Energy Florida entered into a Decommissioning Services Agreement for the accelerated decommissioning of Crystal River Unit 3 with ADP CR3, LLC and ADP SF1, LLC. See Note 4 for additional information on the accelerated decommissioning. Duke Energy Florida executed U.S. equity option collars within the NDTF in May 2019 to preserve the U.S. equity portfolio value in the Duke Energy Florida NDTF in the event the accelerated decommissioning is approved. These option collars were executed as a purchase of a put option and the sale of a call option on certain U.S. equity

index funds. The put and call options create a collar to guarantee a minimum and maximum investment value for the Duke Energy Florida NDTF U.S. equity portfolio. The put and call options were entered into at zero-cost, with the price to purchase the puts offset entirely by the funds received to sell the calls. As of December 31, 2019, the aggregate notional amount of both the put and call options was 305,000 units in U.S. equity security index funds. The options are not designated as hedging instruments. Substantially all of Duke Energy Florida's NDTF qualifies for regulatory accounting. With regulatory accounting, the mark-to-market gains or losses on the options are deferred as regulatory liabilities or regulatory assets, respectively.

LOCATION AND FAIR VALUE OF DERIVATIVE ASSETS AND LIABILITIES RECOGNIZED IN THE CONSOLIDATED BALANCE SHEETS

The following tables show the fair value and balance sheet location of derivative instruments. Although derivatives subject to master netting arrangements are netted on the Consolidated Balance Sheets, the fair values presented below are shown gross and cash collateral on the derivatives has not been netted against the fair values shown.

December 31, 2019								
Derivative Assets	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
(in millions)								
Commodity Contracts								
<i>Not Designated as Hedging Instruments</i>								
Current	\$ 17	\$ —	\$ —	\$ —	\$ —	\$ 3	\$ 13	\$ 1
Noncurrent	1	—	—	—	—	1	—	—
Total Derivative Assets – Commodity Contracts	\$ 18	\$ —	\$ —	\$ —	\$ —	\$ 4	\$ 13	\$ 1
Interest Rate Contracts								
<i>Not Designated as Hedging Instruments</i>								
Current	\$ 6	\$ —	\$ 6	\$ —	\$ 6	\$ —	\$ —	\$ —
Total Derivative Assets – Interest Rate Contracts	\$ 6	\$ —	\$ 6	\$ —	\$ 6	\$ —	\$ —	\$ —
Equity Securities Contracts								
<i>Not Designated as Hedging Instruments</i>								
Current	1	—	1	—	1	—	—	—
Total Derivative Assets – Equity Securities Contracts	\$ 1	\$ —	\$ 1	\$ —	\$ 1	\$ —	\$ —	\$ —
Total Derivative Assets	\$ 25	\$ —	\$ 7	\$ —	\$ 7	\$ 4	\$ 13	\$ 1

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Derivative Liabilities		December 31, 2019						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Commodity Contracts								
<i>Not Designated as Hedging Instruments</i>								
Current	\$ 67	\$ 33	\$ 26	\$ 26	\$ —	\$ —	\$ 1	\$ 7
Noncurrent	156	10	37	22	—	—	—	110
Total Derivative Liabilities – Commodity Contracts	\$ 223	\$ 43	\$ 63	\$ 48	\$ —	\$ —	\$ 1	\$ 117
Interest Rate Contracts								
<i>Designated as Hedging Instruments</i>								
Current	\$ 19	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Noncurrent	21	—	—	—	—	—	—	—
<i>Not Designated as Hedging Instruments</i>								
Current	8	6	1	1	—	1	—	—
Noncurrent	5	—	—	—	—	5	—	—
Total Derivative Liabilities – Interest Rate Contracts	\$ 53	\$ 6	\$ 1	\$ 1	\$ —	\$ 6	\$ —	\$ —
Equity Securities Contracts								
<i>Not Designated as Hedging Instruments</i>								
Current	24	—	24	—	24	—	—	—
Total Derivative Liabilities – Equity Security Contracts	\$ 24	\$ —	\$ 24	\$ —	\$ 24	\$ —	\$ —	\$ —
Total Derivative Liabilities	\$ 300	\$ 49	\$ 88	\$ 49	\$ 24	\$ 6	\$ 1	\$ 117

Derivative Assets		December 31, 2018						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Commodity Contracts								
<i>Not Designated as Hedging Instruments</i>								
Current	\$ 35	\$ 2	\$ 2	\$ 2	\$ —	\$ 6	\$ 23	\$ 3
Noncurrent	4	1	2	2	—	—	—	—
Total Derivative Assets – Commodity Contracts	\$ 39	\$ 3	\$ 4	\$ 4	\$ —	\$ 6	\$ 23	\$ 3
Interest Rate Contracts								
<i>Designated as Hedging Instruments</i>								
Current	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Noncurrent	3	—	—	—	—	—	—	—
<i>Not Designated as Hedging Instruments</i>								
Current	2	—	—	—	—	—	—	—
Noncurrent	12	—	—	—	—	—	—	—
Total Derivative Assets – Interest Rate Contracts	\$ 18	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Total Derivative Assets	\$ 57	\$ 3	\$ 4	\$ 4	\$ —	\$ 6	\$ 23	\$ 3

Derivative Liabilities		December 31, 2018						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Commodity Contracts								
<i>Not Designated as Hedging Instruments</i>								
Current	\$ 33	\$ 14	\$ 10	\$ 5	\$ 6	\$ —	\$ —	\$ 8
Noncurrent	158	10	15	6	—	—	—	133
Total Derivative Liabilities – Commodity Contracts	\$ 191	\$ 24	\$ 25	\$ 11	\$ 6	\$ —	\$ —	\$ 141
Interest Rate Contracts								
<i>Designated as Hedging Instruments</i>								
Current	\$ 12	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Noncurrent	6	—	—	—	—	—	—	—
<i>Not Designated as Hedging Instruments</i>								
Current	23	9	13	11	2	1	—	—
Noncurrent	10	—	6	5	1	4	—	—
Total Derivative Liabilities – Interest Rate Contracts	\$ 51	\$ 9	\$ 19	\$ 16	\$ 3	\$ 5	\$ —	\$ —
Total Derivative Liabilities	\$ 242	\$ 33	\$ 44	\$ 27	\$ 9	\$ 5	\$ —	\$ 141

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

OFFSETTING ASSETS AND LIABILITIES

The following tables present the line items on the Consolidated Balance Sheets where derivatives are reported. Substantially all of Duke Energy's outstanding derivative contracts are subject to enforceable master netting arrangements. The gross amounts offset in the tables below show the effect of these netting arrangements on financial position and include collateral posted to offset the net position. The amounts shown are calculated by counterparty. Accounts receivable or accounts payable may also be available to offset exposures in the event of bankruptcy. These amounts are not included in the tables below.

Derivative Assets		December 31, 2019						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current								
Gross amounts recognized	\$ 24	\$ —	\$ 7	\$ —	\$ 7	\$ 3	\$ 13	\$ 1
Gross amounts offset	(1)	—	(1)	—	(1)	—	—	—
Net amounts presented in Current Assets: Other	\$ 23	\$ —	\$ 6	\$ —	\$ 6	\$ 3	\$ 13	\$ 1
Noncurrent								
Gross amounts recognized	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ 1	\$ —	\$ —
Gross amounts offset	—	—	—	—	—	—	—	—
Net amounts presented in Other Noncurrent Assets: Other	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ 1	\$ —	\$ —

Derivative Liabilities		December 31, 2019						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current								
Gross amounts recognized	\$ 118	\$ 39	\$ 51	\$ 27	\$ 24	\$ 1	\$ 1	\$ 7
Gross amounts offset	(24)	—	(24)	—	(24)	—	—	—
Net amounts presented in Current Liabilities: Other	\$ 94	\$ 39	\$ 27	\$ 27	\$ —	\$ 1	\$ 1	\$ 7
Noncurrent								
Gross amounts recognized	\$ 182	\$ 10	\$ 37	\$ 22	\$ —	\$ 5	\$ —	\$ 110
Gross amounts offset	—	—	—	—	—	—	—	—
Net amounts presented in Other Noncurrent Liabilities: Other	\$ 182	\$ 10	\$ 37	\$ 22	\$ —	\$ 5	\$ —	\$ 110

Derivative Assets		December 31, 2018						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current								
Gross amounts recognized	\$ 38	\$ 2	\$ 2	\$ 2	\$ —	\$ 6	\$ 23	\$ 3
Gross amounts offset	(3)	(2)	(2)	(2)	—	—	—	—
Net amounts presented in Current Assets: Other	\$ 35	\$ —	\$ —	\$ —	\$ —	\$ 6	\$ 23	\$ 3
Noncurrent								
Gross amounts recognized	\$ 19	\$ 1	\$ 2	\$ 2	\$ —	\$ —	\$ —	\$ —
Gross amounts offset	(3)	(1)	(2)	(2)	—	—	—	—
Net amounts presented in Other Noncurrent Assets: Other	\$ 16	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

Derivative Liabilities		December 31, 2018						
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current								
Gross amounts recognized	\$ 68	\$ 23	\$ 23	\$ 16	\$ 8	\$ 1	\$ —	\$ 8
Gross amounts offset	(4)	(2)	(2)	(2)	—	—	—	—
Net amounts presented in Current Liabilities: Other	\$ 64	\$ 21	\$ 21	\$ 14	\$ 8	\$ 1	\$ —	\$ 8
Noncurrent								
Gross amounts recognized	\$ 174	\$ 10	\$ 21	\$ 11	\$ 1	\$ 4	\$ —	\$ 133
Gross amounts offset	(3)	(1)	(2)	(2)	—	—	—	—
Net amounts presented in Other Noncurrent Liabilities: Other	\$ 171	\$ 9	\$ 19	\$ 9	\$ 1	\$ 4	\$ —	\$ 133

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

OBJECTIVE CREDIT CONTINGENT FEATURES

Certain derivative contracts contain objective credit contingent features. These features include the requirement to post cash collateral or letters of credit if specific events occur, such as a credit rating downgrade below investment grade. The following tables show information with respect to derivative contracts that are in a net liability position and contain objective credit-risk-related payment provisions.

(in millions)	December 31, 2019			
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress
Aggregate fair value of derivatives in a net liability position	\$ 79	\$ 35	\$ 44	\$ 44
Fair value of collateral already posted	—	—	—	—
Additional cash collateral or letters of credit in the event credit-risk-related contingent features were triggered	79	35	44	44

(in millions)	December 31, 2018			
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress
Aggregate fair value of derivatives in a net liability position	\$ 44	\$ 19	\$ 25	\$ 25
Fair value of collateral already posted	—	—	—	—
Additional cash collateral or letters of credit in the event credit-risk-related contingent features were triggered	44	19	25	25

The Duke Energy Registrants have elected to offset cash collateral and fair values of derivatives. For amounts to be netted, the derivative and cash collateral must be executed with the same counterparty under the same master netting arrangement.

16. INVESTMENTS IN DEBT AND EQUITY SECURITIES

Duke Energy's investments in debt and equity securities are primarily comprised of investments held in (i) the NDTF at Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, (ii) the grantor trusts at Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana related to OPEB plans and (iii) Bison. The Duke Energy Registrants classify investments in debt securities as AFS and investments in equity securities as FV-NI.

For investments in debt securities classified as AFS, the unrealized gains and losses are included in other comprehensive income until realized, at which

time, they are reported through net income. For investments in equity securities classified as FV-NI, both realized and unrealized gains and losses are reported through net income. Substantially all of Duke Energy's investments in debt and equity securities qualify for regulatory accounting, and accordingly, all associated realized and unrealized gains and losses on these investments are deferred as a regulatory asset or liability.

Duke Energy classifies the majority of investments in debt and equity securities as long term, unless otherwise noted.

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Combined Notes to Consolidated Financial Statements – (Continued)

Investment Trusts

The investments within the Investment Trusts are managed by independent investment managers with discretion to buy, sell and invest pursuant to the objectives set forth by the trust agreements. The Duke Energy Registrants have limited oversight of the day-to-day management of these investments. As a result, the ability to hold investments in unrealized loss positions is outside the control of the Duke Energy Registrants. Accordingly, all unrealized losses associated with debt securities within the Investment Trusts are considered OTTI and are recognized immediately and deferred to regulatory accounts where appropriate.

Other AFS Securities

Unrealized gains and losses on all other AFS securities are included in other comprehensive income until realized, unless it is determined the carrying value of an investment is other-than-temporarily impaired. The Duke Energy Registrants analyze all investment holdings each reporting period to determine whether a decline in fair value should be considered other-than-temporary. If an OTTI exists, the unrealized credit loss is included in earnings. There were no material credit losses as of December 31, 2019, and 2018.

Other Investments amounts are recorded in Other within Other Noncurrent Assets on the Consolidated Balance Sheets.

DUKE ENERGY

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2019			December 31, 2018		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 101	\$ —	\$ —	\$ 88
Equity securities	3,523	55	5,661	2,402	95	4,475
Corporate debt securities	37	1	603	4	13	566
Municipal bonds	13	—	368	1	4	353
U.S. government bonds	33	1	1,256	14	12	1,076
Other debt securities	3	—	141	—	2	148
Total NDTF Investments	\$ 3,609	\$ 57	\$ 8,130	\$ 2,421	\$ 126	\$ 6,706
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 52	\$ —	\$ —	\$ 22
Equity securities	57	—	122	36	1	99
Corporate debt securities	3	—	67	—	2	60
Municipal bonds	4	—	94	—	1	85
U.S. government bonds	2	—	41	1	—	45
Other debt securities	—	—	56	—	1	58
Total Other Investments	\$ 66	\$ —	\$ 432	\$ 37	\$ 5	\$ 369
Total Investments	\$ 3,675	\$ 57	\$ 8,562	\$ 2,458	\$ 131	\$ 7,075

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2019
Due in one year or less	\$ 372
Due after one through five years	550
Due after five through 10 years	452
Due after 10 years	1,252
Total	\$ 2,626

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Combined Notes to Consolidated Financial Statements – (Continued)

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the years ended December 31, 2019, and 2018, and from sales of AFS securities for the year ended December 31, 2017, were as follows.

(in millions)	Years Ended December 31,	
	2019	2018
FV-NI:		
Realized gains	\$ 172	\$ 168
Realized losses	151	126
AFS:		
Realized gains	94	22
Realized losses	67	51

(in millions)	Year Ended December 31,	
	2017	
Realized gains	\$ 202	
Realized losses	160	

DUKE ENERGY CAROLINAS

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2019			December 31, 2018		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 21	\$ —	\$ —	\$ 29
Equity securities	1,914	8	3,154	1,309	54	2,484
Corporate debt securities	21	1	361	2	9	341
Municipal bonds	3	—	96	—	1	81
U.S. government bonds	16	1	578	5	8	475
Other debt securities	3	—	137	—	2	143
Total NDTF Investments	\$ 1,957	\$ 10	\$ 4,347	\$ 1,316	\$ 74	\$ 3,553

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2019
Due in one year or less	\$ 51
Due after one through five years	253
Due after five through 10 years	181
Due after 10 years	687
Total	\$ 1,172

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Combined Notes to Consolidated Financial Statements – (Continued)

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the years ended December 31, 2019, and 2018, and from sales of AFS securities for the year ended December 31, 2017, were as follows.

(in millions)	Years Ended December 31,	
	2019	2018
FV-NI:		
Realized gains	\$ 113	\$ 89
Realized losses	107	73
AFS:		
Realized gains	55	19
Realized losses	38	35

(in millions)	Year Ended December 31,	
	2017	
Realized gains	\$ 135	
Realized losses	103	

PROGRESS ENERGY

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2019			December 31, 2018		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 80	\$ —	\$ —	\$ 59
Equity securities	1,609	47	2,507	1,093	41	1,991
Corporate debt securities	16	—	242	2	4	225
Municipal bonds	10	—	272	1	3	272
U.S. government bonds	17	—	678	9	4	601
Other debt securities	—	—	4	—	—	5
Total NDTF Investments	\$ 1,652	\$ 47	\$ 3,783	\$ 1,105	\$ 52	\$ 3,153
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 49	\$ —	\$ —	\$ 17
Municipal bonds	3	—	51	—	—	47
Total Other Investments	\$ 3	\$ —	\$ 100	\$ —	\$ —	\$ 64
Total Investments	\$ 1,655	\$ 47	\$ 3,883	\$ 1,105	\$ 52	\$ 3,217

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2019
Due in one year or less	\$ 311
Due after one through five years	256
Due after five through 10 years	211
Due after 10 years	469
Total	\$ 1,247

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Combined Notes to Consolidated Financial Statements – (Continued)

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the years ended December 31, 2019, and 2018, and from sales of AFS securities for the year ended December 31, 2017, were as follows.

(in millions)	Years Ended December 31,	
	2019	2018
FV-NI:		
Realized gains	\$ 59	\$ 79
Realized losses	44	53
AFS:		
Realized gains	36	3
Realized losses	29	15

(in millions)	Year Ended December 31,	
	2017	
Realized gains	\$ 65	
Realized losses	56	

DUKE ENERGY PROGRESS

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2019			December 31, 2018		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 53	\$ —	\$ —	\$ 46
Equity securities	1,258	21	2,077	833	30	1,588
Corporate debt securities	16	—	242	2	3	171
Municipal bonds	10	—	272	1	3	271
U.S. government bonds	16	—	403	6	3	415
Other debt securities	—	—	4	—	—	3
Total NDTF Investments	\$ 1,300	\$ 21	\$ 3,051	\$ 842	\$ 39	\$ 2,494
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 2	\$ —	\$ —	\$ 6
Total Other Investments	\$ —	\$ —	\$ 2	\$ —	\$ —	\$ 6
Total Investments	\$ 1,300	\$ 21	\$ 3,053	\$ 842	\$ 39	\$ 2,500

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2019
Due in one year or less	\$ 34
Due after one through five years	247
Due after five through 10 years	204
Due after 10 years	436
Total	\$ 921

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Combined Notes to Consolidated Financial Statements – (Continued)

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the years ended December 31, 2019, and 2018, and from sales of AFS securities for the year ended December 31, 2017, were as follows.

(in millions)	Years Ended December 31,	
	2019	2018
FV-NI:		
Realized gains	\$ 38	\$ 68
Realized losses	33	48
AFS:		
Realized gains	7	2
Realized losses	5	10

(in millions)	Year Ended December 31,	
	2017	
Realized gains	\$ 54	
Realized losses	48	

DUKE ENERGY FLORIDA

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2019			December 31, 2018		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 27	\$ —	\$ —	\$ 13
Equity securities	351	26	430	260	11	403
Corporate debt securities	—	—	—	—	1	54
Municipal bonds	—	—	—	—	—	1
U.S. government bonds	1	—	275	3	1	186
Other debt securities	—	—	—	—	—	2
Total NDTF Investments^(a)	\$ 352	\$ 26	\$ 732	\$ 263	\$ 13	\$ 659
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 4	\$ —	\$ —	\$ 1
Municipal bonds	3	—	51	—	—	47
Total Other Investments	\$ 3	\$ —	\$ 55	\$ —	\$ —	\$ 48
Total Investments	\$ 355	\$ 26	\$ 787	\$ 263	\$ 13	\$ 707

(a) During the year ended December 31, 2019, Duke Energy Florida continued to receive reimbursements from the NDTF for costs related to ongoing decommissioning activity of the Crystal River Unit 3.

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2019
Due in one year or less	\$ 277
Due after one through five years	9
Due after five through 10 years	7
Due after 10 years	33
Total	\$ 326

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Combined Notes to Consolidated Financial Statements – (Continued)

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the years ended December 31, 2019, and 2018, and from sales of AFS securities for the year ended December 31, 2017, were as follows.

(in millions)	Years Ended December 31,	
	2019	2018
FV-NI:		
Realized gains	\$ 21	\$ 11
Realized losses	11	5
AFS:		
Realized gains	29	1
Realized losses	24	5

(in millions)	Year Ended December 31,	
	2017	
Realized gains	\$ 11	
Realized losses	8	

DUKE ENERGY INDIANA

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are measured at FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2019			December 31, 2018		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
Investments						
Equity securities	\$ 43	\$ —	\$ 81	\$ 29	\$ —	\$ 67
Corporate debt securities	—	—	6	—	—	8
Municipal bonds	1	—	36	—	1	33
U.S. government bonds	—	—	2	—	—	—
Total Investments	\$ 44	\$ —	\$ 125	\$ 29	\$ 1	\$ 108

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2019
Due in one year or less	\$ 4
Due after one through five years	16
Due after five through 10 years	7
Due after 10 years	17
Total	\$44

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the year ended December 31, 2019, and 2018, and from sales of AFS securities for the year ended December 31, 2017, were insignificant.

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Combined Notes to Consolidated Financial Statements – (Continued)

17. FAIR VALUE MEASUREMENTS

Fair value is the exchange price to sell an asset or transfer a liability in an orderly transaction between market participants at the measurement date. The fair value definition focuses on an exit price versus the acquisition cost. Fair value measurements use market data or assumptions market participants would use in pricing the asset or liability, including assumptions about risk and the risks inherent in the inputs to the valuation technique. These inputs may be readily observable, corroborated by market data, or generally unobservable. Valuation techniques maximize the use of observable inputs and minimize use of unobservable inputs. A midmarket pricing convention (the midpoint price between bid and ask prices) is permitted for use as a practical expedient.

Fair value measurements are classified in three levels based on the fair value hierarchy as defined by GAAP. Certain investments are not categorized within the fair value hierarchy. These investments are measured at fair value using the NAV per share practical expedient. The net asset value is derived based on the investment cost, less any impairment, plus or minus changes resulting from observable price changes for an identical or similar investment of the same issuer.

Fair value accounting guidance permits entities to elect to measure certain financial instruments that are not required to be accounted for at fair value, such as equity method investments or the company's own debt, at fair value. The Duke Energy Registrants have not elected to record any of these items at fair value.

Valuation methods of the primary fair value measurements disclosed below are as follows.

Investments in equity securities

The majority of investments in equity securities are valued using Level 1 measurements. Investments in equity securities are typically valued at the closing price in the principal active market as of the last business day of the quarter. Principal active markets for equity prices include published exchanges such as the NYSE and Nasdaq Stock Market. Foreign equity prices are translated from their trading currency using the currency exchange rate in effect at the close of the principal active market. There was no after-hours market activity that was required to be reflected in the reported fair value measurements.

DUKE ENERGY

The following tables provide recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets. Derivative amounts in the tables below for all Duke Energy Registrants exclude cash collateral, which is disclosed in Note 15. See Note 16 for additional information related to investments by major security type for the Duke Energy Registrants.

(in millions)	December 31, 2019				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized
NDTF equity securities	\$ 5,684	\$ 5,633	\$ —	\$ —	\$ 51
NDTF debt securities	2,469	826	1,643	—	—
Other equity securities	122	122	—	—	—
Other debt securities	310	91	219	—	—
Derivative assets	25	3	7	15	—
Total assets	8,610	6,675	1,869	15	51
NDTF equity security contracts	(23)	—	(23)	—	—
Derivative liabilities	(277)	(15)	(145)	(117)	—
Net assets (liabilities)	\$ 8,310	\$ 6,660	\$ 1,701	\$ (102)	\$ 51

Investments in debt securities

Most investments in debt securities are valued using Level 2 measurements because the valuations use interest rate curves and credit spreads applied to the terms of the debt instrument (maturity and coupon interest rate) and consider the counterparty credit rating. If the market for a particular fixed-income security is relatively inactive or illiquid, the measurement is Level 3.

Commodity derivatives

Commodity derivatives with clearinghouses are classified as Level 1. If forward price curves are not observable for the full term of the contract and the unobservable period had more than an insignificant impact on the valuation, the commodity derivative is classified as Level 3. In isolation, increases (decreases) in natural gas forward prices result in favorable (unfavorable) fair value adjustments for natural gas purchase contracts; and increases (decreases) in electricity forward prices result in unfavorable (favorable) fair value adjustments for electricity sales contracts. Duke Energy regularly evaluates and validates pricing inputs used to estimate the fair value of natural gas commodity contracts by a market participant price verification procedure. This procedure provides a comparison of internal forward commodity curves to market participant generated curves.

Interest rate derivatives

Most over-the-counter interest rate contract derivatives are valued using financial models that utilize observable inputs for similar instruments and are classified as Level 2. Inputs include forward interest rate curves, notional amounts, interest rates and credit quality of the counterparties.

Other fair value considerations

See Note 12 for a discussion of the valuation of goodwill and intangible assets.

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	December 31, 2018				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized
NDTF equity securities	\$ 4,475	\$ 4,410	\$ —	\$ —	\$ 65
NDTF debt securities	2,231	576	1,655	—	—
Other equity securities	99	99	—	—	—
Other debt securities	270	67	203	—	—
Derivative assets	57	4	25	28	—
Total assets	7,132	5,156	1,883	28	65
Derivative liabilities	(242)	(11)	(90)	(141)	—
Net assets (liabilities)	\$ 6,890	\$ 5,145	\$ 1,793	\$ (113)	\$ 65

The following table provides reconciliations of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	December 31, 2019	December 31, 2018
	Derivatives (net)	Derivatives (net)
Balance at beginning of period	\$ (113)	\$ (114)
Purchases, sales, issuances and settlements:		
Purchases	37	57
Settlements	(44)	(57)
Total gains included on the Consolidated Balance Sheet	18	1
Balance at end of period	\$ (102)	\$ (113)

DUKE ENERGY CAROLINAS

The following tables provide recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2019			
	Total Fair Value	Level 1	Level 2	Not Categorized
NDTF equity securities	\$ 3,154	\$ 3,103	\$ —	\$ 51
NDTF debt securities	1,193	227	966	—
Total assets	4,347	3,330	966	51
Derivative liabilities	(49)	—	(49)	—
Net assets	\$ 4,298	\$ 3,330	\$ 917	\$ 51

(in millions)	December 31, 2018			
	Total Fair Value	Level 1	Level 2	Not Categorized
NDTF equity securities	\$ 2,484	\$ 2,419	\$ —	\$ 65
NDTF debt securities	1,069	149	920	—
Derivative assets	3	—	3	—
Total assets	3,556	2,568	923	65
Derivative liabilities	(33)	—	(33)	—
Net assets	\$ 3,523	\$ 2,568	\$ 890	\$ 65

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Combined Notes to Consolidated Financial Statements – (Continued)

PROGRESS ENERGY

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2019			December 31, 2018		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 2
NDTF equity securities	\$ 2,530	\$ 2,530	\$ —	\$ 1,991	\$ 1,991	\$ —
NDTF debt securities	1,276	599	677	1,162	427	735
Other debt securities	100	49	51	64	17	47
Derivative assets	7	—	7	4	—	4
Total assets	3,913	3,178	735	3,221	2,435	786
NDTF equity security contracts	(23)	—	(23)	—	—	—
Derivative liabilities	(65)	—	(65)	(44)	—	(44)
Net assets	\$ 3,825	\$ 3,178	\$ 647	\$ 3,177	\$ 2,435	\$ 742

DUKE ENERGY PROGRESS

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2019			December 31, 2018		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 2
NDTF equity securities	\$ 2,077	\$ 2,077	\$ —	\$ 1,588	\$ 1,588	\$ —
NDTF debt securities	974	297	677	906	294	612
Other debt securities	2	2	—	6	6	—
Derivative assets	—	—	—	4	—	4
Total assets	3,053	2,376	677	2,504	1,888	616
Derivative liabilities	(49)	—	(49)	(27)	—	(27)
Net assets	\$ 3,004	\$ 2,376	\$ 628	\$ 2,477	\$ 1,888	\$ 589

DUKE ENERGY FLORIDA

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2019			December 31, 2018		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 2
NDTF equity securities	\$ 453	\$ 453	\$ —	\$ 403	\$ 403	\$ —
NDTF debt securities	302	302	—	256	133	123
Other debt securities	55	4	51	48	1	47
Derivative assets	7	—	7	—	—	—
Total assets	817	759	58	707	537	170
NDTF equity security contracts	(23)	—	(23)	—	—	—
Derivative liabilities	(1)	—	(1)	(9)	—	(9)
Net assets	\$ 793	\$ 759	\$ 34	\$ 698	\$ 537	\$ 161

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Combined Notes to Consolidated Financial Statements – (Continued)

DUKE ENERGY OHIO

The recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets were not material at December 31, 2019, and 2018.

DUKE ENERGY INDIANA

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2019				December 31, 2018			
	Total Fair Value	Level 1	Level 2	Level 3	Total Fair Value	Level 1	Level 2	Level 3
Other equity securities	\$ 81	\$ 81	\$ —	\$ —	\$ 67	\$ 67	\$ —	\$ —
Other debt securities	44	—	44	—	41	—	41	—
Derivative assets	13	2	—	11	23	1	—	22
Total assets	138	83	44	11	131	68	41	22
Derivative liabilities	(1)	(1)	—	—	—	—	—	—
Total assets	\$ 137	\$ 82	\$ 44	\$ 11	\$ 131	\$ 68	\$ 41	\$ 22

The following table provides a reconciliation of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Derivatives (net)	
	Years Ended December 31,	
	2019	2018
Balance at beginning of period	\$ 22	\$ 27
Purchases, sales, issuances and settlements:		
Purchases	28	50
Settlements	(36)	(53)
Total losses included on the Consolidated Balance Sheet	(3)	(2)
Balance at end of period	\$ 11	\$ 22

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The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2019			December 31, 2018		
	Total Fair Value	Level 1	Level 3	Total Fair Value	Level 1	Level 3
Derivative assets	\$ 1	\$ 1	\$ —	\$ 3	\$ 3	\$ —
Derivative liabilities	(117)	—	(117)	(141)	—	(141)
Net (liabilities) assets	\$ (116)	\$ 1	\$ (117)	\$ (138)	\$ 3	\$ (141)

The following table provides a reconciliation of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Derivatives (net)	
	Years Ended December 31,	
	2019	2018
Balance at beginning of period	\$ (141)	\$ (142)
Total gains and settlements	24	1
Balance at end of period	\$ (117)	\$ (141)

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Combined Notes to Consolidated Financial Statements – (Continued)

QUANTITATIVE INFORMATION ABOUT UNOBSERVABLE INPUTS

The following tables include quantitative information about the Duke Energy Registrants' derivatives classified as Level 3.

December 31, 2019					
Investment Type	Fair Value (in millions)	Valuation Technique	Unobservable Input	Range	Weighted Average Range
Duke Energy Ohio					
FTRs	\$ 4	RTO auction pricing	FTR price – per MWh	\$ 0.59 — \$ 3.47	\$ 2.07
Duke Energy Indiana					
FTRs	11	RTO auction pricing	FTR price – per MWh	(0.66) — 9.24	1.15
Piedmont					
Natural gas contracts	(117)	Discounted cash flow	Forward natural gas curves – price per MMBtu	1.59 — 2.46	1.91
Duke Energy					
Total Level 3 derivatives	\$ (102)				

December 31, 2018					
Investment Type	Fair Value (in millions)	Valuation Technique	Unobservable Input	Range	
Duke Energy Ohio					
FTRs	\$ 6	RTO auction pricing	FTR price – per MWh	\$ 1.19 — \$ 4.59	
Duke Energy Indiana					
FTRs	22	RTO auction pricing	FTR price – per MWh	(2.07) — 8.27	
Piedmont					
Natural gas contracts	(141)	Discounted cash flow	Forward natural gas curves – price per MMBtu	1.87 — 2.95	
Duke Energy					
Total Level 3 derivatives	\$ (113)				

OTHER FAIR VALUE DISCLOSURES

The fair value and book value of long-term debt, including current maturities, is summarized in the following table. Estimates determined are not necessarily indicative of amounts that could have been settled in current markets. Fair value of long-term debt uses Level 2 measurements.

(in millions)	December 31, 2019		December 31, 2018	
	Book Value	Fair Value	Book Value	Fair Value
Duke Energy ^(a)	\$ 58,126	\$ 63,062	\$ 54,529	\$ 54,534
Duke Energy Carolinas	11,900	13,516	10,939	11,471
Progress Energy	19,634	22,291	18,911	19,885
Duke Energy Progress	9,058	9,934	8,204	8,300
Duke Energy Florida	7,987	9,131	7,321	7,742
Duke Energy Ohio	2,619	2,964	2,165	2,239
Duke Energy Indiana	4,057	4,800	3,782	4,158
Piedmont	2,384	2,642	2,138	2,180

(a) Book value of long-term debt includes \$1.5 billion as of December 31, 2019, and \$1.6 billion as of December 31, 2018, of unamortized debt discount and premium, net in purchase accounting adjustments related to the mergers with Progress Energy and Piedmont that are excluded from fair value of long-term debt.

At both December 31, 2019, and December 31, 2018, fair value of cash and cash equivalents, accounts and notes receivable, accounts payable, notes payable and commercial paper, and nonrecourse notes payable of VIEs are not materially different from their carrying amounts because of the short-term nature of these instruments and/or because the stated rates approximate market rates.

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Combined Notes to Consolidated Financial Statements – (Continued)

18. VARIABLE INTEREST ENTITIES

A VIE is an entity that is evaluated for consolidation using more than a simple analysis of voting control. The analysis to determine whether an entity is a VIE considers contracts with an entity, credit support for an entity, the adequacy of the equity investment of an entity and the relationship of voting power to the amount of equity invested in an entity. This analysis is performed either upon the creation of a legal entity or upon the occurrence of an event requiring reevaluation, such as a significant change in an entity's assets or activities. A qualitative analysis of control determines the party that consolidates a VIE. This assessment is based on (i) what party has the power to direct the activities of the VIE that most significantly impact its economic performance and (ii) what party has rights to receive benefits or is obligated to absorb losses that could potentially be significant to the VIE. The analysis of the party that consolidates a VIE is a continual reassessment.

CONSOLIDATED VIEs

The obligations of the consolidated VIEs discussed in the following paragraphs are nonrecourse to the Duke Energy Registrants. The registrants have no requirement to provide liquidity to, purchase assets of or guarantee performance of these VIEs unless noted in the following paragraphs.

No financial support was provided to any of the consolidated VIEs during the years ended December 31, 2019, 2018, and 2017, or is expected to be provided in the future, that was not previously contractually required.

Receivables Financing – DERF/DEPR/DEFR

DERF, DEPR and DEFR are bankruptcy remote, special purpose subsidiaries of Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, respectively. DERF, DEPR and DEFR are wholly owned LLCs with separate legal existence from their parent companies, and their assets are not generally available to creditors of their parent companies. On a revolving basis, DERF, DEPR and DEFR buy certain accounts receivable arising from the sale of electricity and related services from their parent companies.

DERF, DEPR and DEFR borrow amounts under credit facilities to buy these receivables. Borrowing availability from the credit facilities is limited to the

amount of qualified receivables purchased. The sole source of funds to satisfy the related debt obligations is cash collections from the receivables. Amounts borrowed under the credit facilities are reflected on the Consolidated Balance Sheets as Long-Term Debt.

The most significant activity that impacts the economic performance of DERF, DEPR and DEFR are the decisions made to manage delinquent receivables. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are considered the primary beneficiaries and consolidate DERF, DEPR and DEFR, respectively, as they make those decisions.

Receivables Financing – CRC

CRC is a bankruptcy remote, special purpose entity indirectly owned by Duke Energy. On a revolving basis, CRC buys certain accounts receivable arising from the sale of electricity, natural gas and related services from Duke Energy Ohio and Duke Energy Indiana. CRC borrows amounts under a credit facility to buy the receivables from Duke Energy Ohio and Duke Energy Indiana. Borrowing availability from the credit facility is limited to the amount of qualified receivables sold to CRC. The sole source of funds to satisfy the related debt obligation is cash collections from the receivables. Amounts borrowed under the credit facility are reflected on Duke Energy's Consolidated Balance Sheets as Long-Term Debt.

The proceeds Duke Energy Ohio and Duke Energy Indiana receive from the sale of receivables to CRC are approximately 75% cash and 25% in the form of a subordinated note from CRC. The subordinated note is a retained interest in the receivables sold. Depending on collection experience, additional equity infusions to CRC may be required by Duke Energy to maintain a minimum equity balance of \$3 million.

CRC is considered a VIE because (i) equity capitalization is insufficient to support its operations, (ii) power to direct the activities that most significantly impact the economic performance of the entity is not held by the equity holder and (iii) deficiencies in net worth of CRC are funded by Duke Energy. The most significant activities that impact the economic performance of CRC are decisions made to manage delinquent receivables. Duke Energy is considered the primary beneficiary and consolidates CRC as it makes these decisions. Neither Duke Energy Ohio nor Duke Energy Indiana consolidate CRC.

Receivables Financing – Credit Facilities

The following table summarizes the amounts and expiration dates of the credit facilities and associated restricted receivables described above.

(in millions)	Duke Energy			
	Duke Energy Carolinas		Duke Energy Progress	Duke Energy Florida
	CRC	DERF	DEPR	DEFR
Expiration date	February 2023	December 2022	February 2021	April 2021
Credit facility amount	\$ 350	\$ 475	\$ 325	\$ 250
Amounts borrowed at December 31, 2019	350	474	325	250
Amounts borrowed at December 31, 2018	325	450	300	225
Restricted Receivables at December 31, 2019	522	642	489	336
Restricted Receivables at December 31, 2018	564	699	547	357

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Combined Notes to Consolidated Financial Statements – (Continued)

Nuclear Asset-Recovery Bonds – Duke Energy Florida Project Finance, LLC (DEFPF)

DEFPF is a bankruptcy remote, wholly owned special purpose subsidiary of Duke Energy Florida. DEFPF was formed in 2016 for the sole purpose of issuing nuclear asset-recovery bonds to finance Duke Energy Florida's unrecovered regulatory asset related to Crystal River Unit 3.

In 2016, DEFPF issued senior secured bonds and used the proceeds to acquire nuclear asset-recovery property from Duke Energy Florida. The nuclear asset-recovery property acquired includes the right to impose, bill, collect and adjust a non-bypassable nuclear asset-recovery charge from all Duke Energy Florida retail customers until the bonds are paid in full and all financing costs have been recovered. The nuclear asset-recovery bonds are secured by the nuclear asset-recovery property and cash collections from the nuclear asset-recovery charges are the sole source of funds to satisfy the debt obligation. The bondholders have no recourse to Duke Energy Florida.

DEFPF is considered a VIE primarily because the equity capitalization is insufficient to support its operations. Duke Energy Florida has the power to direct the significant activities of the VIE as described above and therefore Duke Energy Florida is considered the primary beneficiary and consolidates DEFPF.

The following table summarizes the impact of DEFPF on Duke Energy Florida's Consolidated Balance Sheets.

(in millions)	December 31, 2019	December 31, 2018
Receivables of VIEs	\$ 5	\$ 5
Regulatory Assets: Current	52	52
Current Assets: Other	39	39
Other Noncurrent Assets: Regulatory assets	989	1,041
Current Liabilities: Other	10	10
Current maturities of long-term debt	54	53
Long-Term Debt	1,057	1,111

Commercial Renewables

Certain of Duke Energy's renewable energy facilities are VIEs due to Duke Energy issuing guarantees for debt service and operations and maintenance reserves in support of debt financings. Assets are restricted and cannot be pledged as collateral or sold to third parties without prior approval of debt holders. Additionally, Duke Energy has VIEs associated with tax equity arrangements entered into with third-party investors in order to finance the cost of renewable assets eligible for tax credits. The activities that most significantly impacted the economic performance of these renewable energy facilities were decisions associated with siting, negotiating PPAs and EPC agreements, and decisions associated with ongoing operations and maintenance-related activities. Duke Energy is considered the primary beneficiary and consolidates the entities as it is responsible for all of these decisions.

The table below presents material balances reported on Duke Energy's Consolidated Balance Sheets related to Commercial Renewables VIEs.

(in millions)	December 31, 2019	December 31, 2018
Current Assets: Other	\$ 203	\$ 123
Property, Plant and Equipment: Cost	5,747	4,007
Accumulated depreciation and amortization	(1,041)	(698)
Other Noncurrent Assets: Other	106	261
Current maturities of long-term debt	162	174
Long-Term Debt	1,541	1,587
Other Noncurrent Liabilities: AROs	127	106
Other Noncurrent Liabilities: Other	228	212

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Combined Notes to Consolidated Financial Statements – (Continued)

NON-CONSOLIDATED VIEs

The following tables summarize the impact of non-consolidated VIEs on the Consolidated Balance Sheets.

(in millions)	December 31, 2019					
	Duke Energy				Duke Energy Ohio	Duke Energy Indiana
	Pipeline Investments	Commercial Renewables	Other VIEs ^(a)	Total		
Receivables from affiliated companies	\$ —	\$ (1)	\$ —	\$ (1)	\$ 64	\$ 77
Investments in equity method unconsolidated affiliates	1,179	300	—	1,479	—	—
Total assets	\$1,179	\$ 299	\$ —	\$ 1,478	\$ 64	\$ 77
Taxes accrued	(1)	—	—	(1)	—	—
Other current liabilities	—	—	4	4	—	—
Deferred income taxes	59	—	—	59	—	—
Other noncurrent liabilities	—	—	11	11	—	—
Total liabilities	\$ 58	\$ —	\$ 15	\$ 73	\$ —	\$ —
Net assets (liabilities)	\$1,121	\$ 299	\$ (15)	\$ 1,405	\$ 64	\$ 77

(a) Duke Energy holds a 50% equity interest in Pioneer. As of December 31, 2018, Pioneer was considered a VIE due to having insufficient equity to finance its own activities without subordinated financial support. In October 2019, Pioneer closed on a private placement debt offering that gave Pioneer sufficient equity to finance its own activities and, therefore, is no longer considered a VIE. Duke Energy's investment in Pioneer was \$57 million at December 31, 2019.

(in millions)	December 31, 2018					
	Duke Energy				Duke Energy Ohio	Duke Energy Indiana
	Pipeline Investments	Commercial Renewables	Other VIEs	Total		
Receivables from affiliated companies	\$ —	\$ —	\$ —	\$ —	\$ 93	\$ 118
Investments in equity method unconsolidated affiliates	822	190	48	1,060	—	—
Total assets	\$ 822	\$ 190	\$ 48	\$ 1,060	\$ 93	\$ 118
Taxes accrued	(1)	—	—	(1)	—	—
Other current liabilities	—	—	4	4	—	—
Deferred income taxes	21	—	—	21	—	—
Other noncurrent liabilities	—	—	12	12	—	—
Total liabilities	\$ 20	\$ —	\$ 16	\$ 36	\$ —	\$ —
Net assets	\$ 802	\$ 190	\$ 32	\$ 1,024	\$ 93	\$ 118

The Duke Energy Registrants are not aware of any situations where the maximum exposure to loss significantly exceeds the carrying values shown above except for the PPA with OVEC, which is discussed below, and various guarantees, including Duke Energy's guarantee agreement to support its share of the ACP revolving credit facility. Duke Energy's maximum exposure to loss under the terms of the guarantee is \$827 million, which represents 47% of the outstanding borrowings under the credit facility as of December 31, 2019. For more information on various guarantees, refer to Note 8.

Pipeline Investments

Duke Energy has investments in various joint ventures with pipeline projects currently under construction. These entities are considered VIEs due to having insufficient equity to finance their own activities without subordinated financial support. Duke Energy does not have the power to direct the activities that most significantly impact the economic performance, the obligation to absorb losses or the right to receive benefits of these VIEs and therefore does not consolidate these entities.

The table below presents Duke Energy's ownership interest and investment balances in these joint ventures.

Entity Name	Ownership Interest	VIE Investment Amount (in millions)	
		December 31, 2019	December 31, 2018
ACP ^(a)	47%	\$ 1,179	\$ 797
Constitution ^(b)	24%	—	25
Total		\$ 1,179	\$ 822

(a) Duke Energy evaluated this investment for impairment as of December 31, 2019, and 2018, and determined that fair value approximated carrying value and therefore no impairment was necessary.

(b) During the years ended December 31, 2019, and 2018, Duke Energy recorded an OTTI of \$25 million and \$55 million, respectively, related to Constitution within Equity in earnings of unconsolidated affiliates on Duke Energy's Consolidated Statements of Income. The current year charge resulted in the full write-down of Duke Energy's investment in Constitution. See Notes 4 and 13 for additional information.

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Combined Notes to Consolidated Financial Statements – (Continued)

Commercial Renewables

Duke Energy has investments in various renewable energy project entities. Some of these entities are VIEs due to Duke Energy issuing guarantees for debt service and operations and maintenance reserves in support of debt financings. Duke Energy does not consolidate these VIEs because power to direct and control key activities is shared jointly by Duke Energy and other owners. In 2019, Duke Energy acquired a majority ownership in a portfolio of distributed fuel cell projects from Bloom Energy Corporation. Duke Energy is not the primary beneficiary of the assets within the portfolio and does not consolidate the assets in the portfolio.

OVEC

Duke Energy Ohio's 9% ownership interest in OVEC is considered a non-consolidated VIE due to OVEC having insufficient equity to finance its activities without subordinated financial support. The activities that most significantly impact OVEC's economic performance include fuel strategy and supply activities and decisions associated with ongoing operations and maintenance-related activities. Duke Energy Ohio does not have the unilateral power to direct these activities, and therefore, does not consolidate OVEC.

As a counterparty to an Inter-Company Power Agreement (ICPA), Duke Energy Ohio has a contractual arrangement to receive entitlements to capacity and energy from OVEC's power plants through June 2040 commensurate with its power participation ratio, which is equivalent to Duke Energy Ohio's ownership interest. Costs, including fuel, operating expenses, fixed costs, debt amortization and interest expense, are allocated to counterparties to the ICPA based on their power participation ratio. The value of the ICPA is subject to variability due to fluctuation in power prices and changes in OVEC's cost of business. On March 31, 2018, FES, a subsidiary of FirstEnergy Corp. and an ICPA counterparty with a power participation ratio of 4.85%, filed for Chapter 11 bankruptcy, which could

increase costs allocated to the counterparties. On July 31, 2018, the bankruptcy court rejected the FES ICPA, which means OVEC is an unsecured creditor in the FES bankruptcy proceeding. Duke Energy Ohio cannot predict the impact of the bankruptcy filing on its OVEC interests. In addition, certain proposed environmental rulemaking could result in future increased OVEC cost allocations. See Note 4 for additional information.

CRC

See discussion under Consolidated VIEs for additional information related to CRC.

Amounts included in Receivables from affiliated companies in the above table for Duke Energy Ohio and Duke Energy Indiana reflect their retained interest in receivables sold to CRC. These subordinated notes held by Duke Energy Ohio and Duke Energy Indiana are stated at fair value. Carrying values of retained interests are determined by allocating carrying value of the receivables between assets sold and interests retained based on relative fair value. The allocated bases of the subordinated notes are not materially different than their face value because (i) the receivables generally turnover in less than two months, (ii) credit losses are reasonably predictable due to the broad customer base and lack of significant concentration and (iii) the equity in CRC is subordinate to all retained interests and thus would absorb losses first. The hypothetical effect on fair value of the retained interests assuming both a 10% and a 20% unfavorable variation in credit losses or discount rates is not material due to the short turnover of receivables and historically low credit loss history. Interest accrues to Duke Energy Ohio and Duke Energy Indiana on the retained interests using the acceptable yield method. This method generally approximates the stated rate on the notes since the allocated basis and the face value are nearly equivalent. An impairment charge is recorded against the carrying value of both retained interests and purchased beneficial interest whenever it is determined that an OTTI has occurred.

Key assumptions used in estimating fair value are detailed in the following table.

	Duke Energy Ohio		Duke Energy Indiana	
	2019	2018	2019	2018
Anticipated credit loss ratio	0.6%	0.5%	0.3%	0.3%
Discount rate	3.3%	3.0%	3.3%	3.0%
Receivable turnover rate	13.4%	13.5%	11.5%	11.0%

The following table shows the gross and net receivables sold.

(in millions)	Duke Energy Ohio		Duke Energy Indiana	
	December 31,		December 31,	
	2019	2018	2019	2018
Receivables sold	\$ 253	\$ 269	\$ 307	\$ 336
Less: Retained interests	64	93	77	118
Net receivables sold	\$ 189	\$ 176	\$ 230	\$ 218

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Combined Notes to Consolidated Financial Statements – (Continued)

The following table shows sales and cash flows related to receivables sold.

(in millions)	Duke Energy Ohio			Duke Energy Indiana		
	Years Ended December 31,			Years Ended December 31,		
	2019	2018	2017	2019	2018	2017
Sales						
Receivables sold	\$1,979	\$1,987	\$1,879	\$2,837	\$2,842	\$2,711
Loss recognized on sale	14	13	10	17	16	12
Cash flows						
Cash proceeds from receivables sold	1,993	1,967	1,865	2,860	2,815	2,694
Collection fees received	1	1	1	1	1	1
Return received on retained interests	6	6	3	9	9	7

Cash flows from sales of receivables are reflected within Cash Flows From Operating Activities on Duke Energy Ohio's and Duke Energy Indiana's Consolidated Statements of Cash Flows.

Collection fees received in connection with servicing transferred accounts receivable are included in Operation, maintenance and other on Duke Energy Ohio's and Duke Energy Indiana's Consolidated Statements of Operations and Comprehensive Income. The loss recognized on sales of receivables is

calculated monthly by multiplying receivables sold during the month by the required discount. The required discount is derived monthly utilizing a three-year weighted average formula that considers charge-off history, late charge history and turnover history on the sold receivables, as well as a component for the time value of money. The discount rate, or component for the time value of money, is the prior month-end LIBOR plus a fixed rate of 1.00%.

19. REVENUE

Duke Energy recognizes revenue consistent with amounts billed under tariff offerings or at contractually agreed upon rates based on actual physical delivery of electric or natural gas service, including estimated volumes delivered when billings have not yet occurred. As such, the majority of Duke Energy's revenues have fixed pricing based on the contractual terms of the published tariffs, with variability in expected cash flows attributable to the customer's volumetric demand and ultimate quantities of energy or natural gas supplied and used during the billing period. The stand-alone selling price of related sales are designed to support recovery of prudently incurred costs and an appropriate return on invested assets and are primarily governed by published tariff rates or contractual agreements approved by relevant regulatory bodies. As described in Note 1, certain excise taxes and franchise fees levied by state or local governments are required to be paid even if not collected from the customer. These taxes are recognized on a gross basis as part of revenues. Duke Energy elects to account for all other taxes net of revenues.

Performance obligations are satisfied over time as energy or natural gas is delivered and consumed with billings generally occurring monthly and related payments due within 30 days, depending on regulatory requirements. In no event does the timing between payment and delivery of the goods and services exceed one year. Using this output method for revenue recognition provides a faithful depiction of the transfer of electric and natural gas service as customers obtain control of the commodity and benefit from its use at delivery. Additionally, Duke Energy has an enforceable right to consideration for energy or natural gas delivered at any discrete point in time and will recognize revenue at an amount that reflects the consideration to which Duke Energy is entitled for the energy or natural gas delivered.

As described above, the majority of Duke Energy's tariff revenues are at-will and, as such, related contracts with customers have an expected duration of one year or less and will not have future performance obligations for disclosure. Additionally, other long-term revenue streams, including wholesale contracts, generally provide services that are part of a single performance

obligation, the delivery of electricity or natural gas. As such, other than material fixed consideration under long-term contracts, related disclosures for future performance obligations are also not applicable.

Duke Energy earns substantially all of its revenues through its reportable segments, Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables.

Electric Utilities and Infrastructure

Electric Utilities and Infrastructure earns the majority of its revenues through retail and wholesale electric service through the generation, transmission, distribution and sale of electricity. Duke Energy generally provides retail and wholesale electric service customers with their full electric load requirements or with supplemental load requirements when the customer has other sources of electricity.

Retail electric service is generally marketed throughout Duke Energy's electric service territory through standard service offers. The standard service offers are through tariffs determined by regulators in Duke Energy's regulated service territory. Each tariff, which is assigned to customers based on customer class, has multiple components such as an energy charge, a demand charge, a basic facilities charge and applicable riders. Duke Energy considers each of these components to be aggregated into a single performance obligation for providing electric service, or in the case of distribution only customers in Duke Energy Ohio, for delivering electricity. Electricity is considered a single performance obligation satisfied over time consistent with the series guidance and is provided and consumed over the billing period, generally one month. Retail electric service is typically provided to at-will customers who can cancel service at any time, without a substantive penalty. Additionally, Duke Energy adheres to applicable regulatory requirements in each jurisdiction to ensure the collectability of amounts billed and appropriate mitigating procedures are followed when necessary. As such, revenue from contracts with customers for

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Combined Notes to Consolidated Financial Statements – (Continued)

such contracts is equivalent to the electricity supplied and billed in that period (including unbilled estimates).

Wholesale electric service is generally provided under long-term contracts using cost-based pricing. FERC regulates costs that may be recovered from customers and the amount of return companies are permitted to earn. Wholesale contracts include both energy and demand charges. For full requirements contracts, Duke Energy considers both charges as a single performance obligation for providing integrated electric service. For contracts where energy and demand charges are considered separate performance obligations, energy and demand are each a distinct performance obligation under the series guidance and are satisfied as energy is delivered and stand-ready service is provided on a monthly basis. This service represents consumption over the billing period and revenue is recognized consistent with

billings and unbilled estimates, which generally occur monthly. Contractual amounts owed are typically trued up annually based upon incurred costs in accordance with FERC published filings and the specific customer's actual peak demand. Estimates of variable consideration related to potential additional billings or refunds owed are updated quarterly.

The majority of wholesale revenues are full requirements contracts where the customers purchase the substantial majority of their energy needs and do not have a fixed quantity of contractually required energy or capacity. As such, related forecasted revenues are considered optional purchases. Supplemental requirements contracts that include contracted blocks of energy and capacity at contractually fixed prices have the following estimated remaining performance obligations:

(in millions)	Remaining Performance Obligations						Total
	2020	2021	2022	2023	2024	Thereafter	
Progress Energy	\$ 121	\$ 92	\$ 87	\$ 44	\$ 45	\$ 58	\$ 447
Duke Energy Progress	8	8	8	8	8	—	40
Duke Energy Florida	113	84	79	36	37	58	407
Duke Energy Indiana	10	5	—	—	—	—	15

Revenues for block sales are recognized monthly as energy is delivered and stand-ready service is provided, consistent with invoiced amounts and unbilled estimates.

Gas Utilities and Infrastructure

Gas Utilities and Infrastructure earns its revenue through retail and wholesale natural gas service through the transportation, distribution and sale of natural gas. Duke Energy generally provides retail and wholesale natural gas service customers with all natural gas load requirements. Additionally, while natural gas can be stored, substantially all natural gas provided by Duke Energy is consumed by customers simultaneously with receipt of delivery.

Retail natural gas service is marketed throughout Duke Energy's natural gas service territory using published tariff rates. The tariff rates are established by regulators in Duke Energy's service territories. Each tariff, which is assigned to customers based on customer class, have multiple components, such as a commodity charge, demand charge, customer or monthly charge and transportation costs. Duke Energy considers each of these components to be aggregated into a single performance obligation for providing natural gas service. For contracts where Duke Energy provides all of the customer's natural gas needs, the delivery of natural gas is considered a single performance

obligation satisfied over time, and revenue is recognized monthly based on billings and unbilled estimates as service is provided and the commodity is consumed over the billing period. Additionally, natural gas service is typically at-will and customers can cancel service at any time, without a substantive penalty. Duke Energy also adheres to applicable regulatory requirements to ensure the collectability of amounts billed and receivable and appropriate mitigating procedures are followed when necessary.

Certain long-term individually negotiated contracts exist to provide natural gas service. These contracts are regulated and approved by state commissions. The negotiated contracts have multiple components, including a natural gas and a demand charge, similar to retail natural gas contracts. Duke Energy considers each of these components to be a single performance obligation for providing natural gas service. This service represents consumption over the billing period, generally one month.

Fixed capacity payments under long-term contracts for the Gas Utilities and Infrastructure segment include minimum margin contracts and supply arrangements with municipalities and power generation facilities. Revenues for related sales are recognized monthly as natural gas is delivered and stand-ready service is provided, consistent with invoiced amounts and unbilled estimates. Estimated remaining performance obligations are as follows:

(in millions)	Remaining Performance Obligations						Total
	2020	2021	2022	2023	2024	Thereafter	
Piedmont	\$ 69	\$ 64	\$ 64	\$ 61	\$ 58	\$ 372	\$ 688

PART II

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Combined Notes to Consolidated Financial Statements – (Continued)

Commercial Renewables

Commercial Renewables earns the majority of its revenues through long-term PPAs and generally sells all of its wind and solar facility output, electricity and RECs to customers. The majority of these PPAs have historically been accounted for as leases. For PPAs that are not accounted for as leases, the delivery of electricity and the delivery of RECs are considered separate performance obligations.

The delivery of electricity is a performance obligation satisfied over time and represents generation and consumption of the electricity over the billing period, generally one month. The delivery of RECs is a performance obligation satisfied at a point in time and represents delivery of each REC generated by the wind or solar facility. The majority of self-generated RECs are bundled with energy in Duke Energy's contracts and, as such, related revenues are recognized as energy is generated and delivered as that pattern is consistent with Duke Energy's performance. Commercial Renewables recognizes revenue based on the energy generated and billed for the period, generally one month, at contractual rates (including unbilled estimates) according to the invoice practical expedient. Amounts are typically due within 30 days of invoice.

Commercial Renewables also earns revenues from installation of distributed solar generation resources, which is primarily composed of EPC projects to deliver functioning solar power systems, generally completed within two to 12 months from commencement of construction. The installation of distributed solar generation resources is a performance obligation that is satisfied over time. Revenue from fixed-price EPC contracts is recognized using

the input method as work is performed based on the estimated ratio of incurred costs to estimated total costs.

Other

The remainder of Duke Energy's operations is presented as Other, which does not include material revenues from contracts with customers.

Disaggregated Revenues

For the Electric and Gas Utility and Infrastructure segments, revenue by customer class is most meaningful to Duke Energy as each respective customer class collectively represents unique customer expectations of service, generally has different energy and demand requirements, and operates under tailored, regulatory approved pricing structures. Additionally, each customer class is impacted differently by weather and a variety of economic factors including the level of population growth, economic investment, employment levels, and regulatory activities in each of Duke Energy's jurisdictions. As such, analyzing revenues disaggregated by customer class allows Duke Energy to understand the nature, amount, timing and uncertainty of revenue and cash flows arising from contracts with customers. For the Commercial Renewables segment, the majority of revenues from contracts with customers are from selling all of the unit-contingent output at contractually defined pricing under long-term PPAs with consistent expectations regarding the timing and certainty of cash flows. Disaggregated revenues are presented as follows:

(in millions) By market or type of customer	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
<i>Electric Utilities and Infrastructure</i>								
Residential	\$ 9,863	\$ 3,044	\$ 4,998	\$ 2,144	\$ 2,854	\$ 733	\$ 1,087	\$ —
General	6,431	2,244	2,935	1,368	1,567	451	802	—
Industrial	3,071	1,215	934	675	259	147	774	—
Wholesale	2,212	462	1,468	1,281	187	46	235	—
Other revenues	770	276	548	317	231	80	89	—
Total Electric Utilities and Infrastructure revenue from contracts with customers	\$ 22,347	\$ 7,241	\$ 10,883	\$ 5,785	\$ 5,098	\$ 1,457	\$ 2,987	\$ —
<i>Gas Utilities and Infrastructure</i>								
Residential	\$ 976	\$ —	\$ —	\$ —	\$ —	\$ 315	\$ —	\$ 661
Commercial	508	—	—	—	—	130	—	378
Industrial	141	—	—	—	—	19	—	122
Power Generation	—	—	—	—	—	—	—	51
Other revenues	129	—	—	—	—	19	—	110
Total Gas Utilities and Infrastructure revenue from contracts with customers	\$ 1,754	\$ —	\$ —	\$ —	\$ —	\$ 483	\$ —	\$ 1,322
<i>Commercial Renewables</i>								
Revenue from contracts with customers	\$ 223	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
<i>Other</i>								
Revenue from contracts with customers	\$ 24	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Total revenue from contracts with customers	\$ 24,348	\$ 7,241	\$ 10,883	\$ 5,785	\$ 5,098	\$ 1,940	\$ 2,987	\$ 1,322
Other revenue sources ^(a)	\$ 731	\$ 154	\$ 319	\$ 172	\$ 133	\$ —	\$ 17	\$ 59
Total revenues	\$ 25,079	\$ 7,395	\$ 11,202	\$ 5,957	\$ 5,231	\$ 1,940	\$ 3,004	\$ 1,381

(a) Other revenue sources include revenues from leases, derivatives and alternative revenue programs that are not considered revenues from contracts with customers. Alternative revenue programs in certain jurisdictions include regulatory mechanisms that periodically adjust for over or under collection of related revenues.

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Combined Notes to Consolidated Financial Statements – (Continued)

	Year Ended December 31, 2018							
(in millions) By market or type of customer	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
<i>Electric Utilities and Infrastructure</i>								
Residential	\$ 9,587	\$ 2,981	\$ 4,785	\$ 2,019	\$ 2,766	\$ 743	\$ 1,076	\$ —
General	6,127	2,119	2,809	1,280	1,529	422	778	—
Industrial	2,974	1,180	904	642	262	131	760	—
Wholesale	2,324	508	1,462	1,303	159	57	298	—
Other revenues	717	320	502	320	182	73	91	—
Total Electric Utilities and Infrastructure revenue from contracts with customers	\$ 21,729	\$ 7,108	\$ 10,462	\$ 5,564	\$ 4,898	\$ 1,426	\$ 3,003	\$ —
<i>Gas Utilities and Infrastructure</i>								
Residential	\$ 1,000	\$ —	\$ —	\$ —	\$ —	\$ 331	\$ —	\$ 669
Commercial	514	—	—	—	—	135	—	378
Industrial	147	—	—	—	—	18	—	128
Power Generation	—	—	—	—	—	—	—	54
Other revenues	139	—	—	—	—	19	—	120
Total Gas Utilities and Infrastructure revenue from contracts with customers	\$ 1,800	\$ —	\$ —	\$ —	\$ —	\$ 503	\$ —	\$ 1,349
<i>Commercial Renewables</i>								
Revenue from contracts with customers	\$ 209	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
<i>Other</i>								
Revenue from contracts with customers	\$ 19	\$ —	\$ —	\$ —	\$ —	\$ 1	\$ —	\$ —
Total revenue from contracts with customers	\$ 23,757	\$ 7,108	\$ 10,462	\$ 5,564	\$ 4,898	\$ 1,930	\$ 3,003	\$ 1,349
Other revenue sources ^(a)	\$ 764	\$ 192	\$ 266	\$ 135	\$ 123	\$ 27	\$ 56	\$ 26
Total revenues	\$ 24,521	\$ 7,300	\$ 10,728	\$ 5,699	\$ 5,021	\$ 1,957	\$ 3,059	\$ 1,375

(a) Other revenue sources include revenues from leases, derivatives and alternative revenue programs that are not considered revenues from contracts with customers. Alternative revenue programs in certain jurisdictions include regulatory mechanisms that periodically adjust for over or under collection of related revenues.

IMPACT OF WEATHER AND THE TIMING OF BILLING PERIODS

Revenues and costs are influenced by seasonal weather patterns. Peak sales of electricity occur during the summer and winter months, which results in higher revenue and cash flows during these periods. By contrast, lower sales of electricity occur during the spring and fall, allowing for scheduled plant maintenance. Residential and general service customers are more impacted by weather than industrial customers. Estimated weather impacts are based on actual current period weather compared to normal weather conditions. Normal weather conditions are defined as the long-term average of actual historical weather conditions. Heating degree days measure the variation in weather based on the extent the average daily temperature falls below a base temperature. Cooling degree days measure the variation in weather based on the extent the average daily temperature rises above the base temperature. Each degree of temperature below the base temperature counts as one heating degree day and each degree of temperature above the base temperature counts as one cooling degree day.

The estimated impact of weather on earnings for Electric Utilities and Infrastructure is based on the temperature variances from a normal condition and customers' historic usage patterns. The methodology used to estimate the impact of weather does not consider all variables that may impact customer response to weather conditions, such as humidity in the summer or wind chill

in the winter. The precision of this estimate may also be impacted by applying long-term weather trends to shorter-term periods.

Gas Utilities and Infrastructure's costs and revenues are influenced by seasonal patterns due to peak natural gas sales occurring during the winter months as a result of space heating requirements. Residential customers are the most impacted by weather. There are certain regulatory mechanisms for the North Carolina, South Carolina, Tennessee, Ohio and Kentucky service territories that normalize the margins collected from certain customer classes during the winter. In North Carolina, rate design provides protection from both weather and other usage variations such as conservation, while South Carolina, Tennessee and Kentucky revenues are adjusted solely based on weather. Ohio primarily employs a fixed charge each month regardless of the season and usage.

UNBILLED REVENUE

Unbilled revenues are recognized by applying customer billing rates to the estimated volumes of energy or natural gas delivered but not yet billed. Unbilled revenues can vary significantly from period to period as a result of seasonality, weather, customer usage patterns, customer mix, average price in effect for customer classes, timing of rendering customer bills and meter reading schedules, and the impact of weather normalization or margin decoupling mechanisms.

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Combined Notes to Consolidated Financial Statements – (Continued)

Unbilled revenues are included within Receivables and Receivables of VIEs on the Consolidated Balance Sheets as shown in the following table.

(in millions)	December 31,	
	2019	2018
Duke Energy	\$ 843	\$ 896
Duke Energy Carolinas	298	313
Progress Energy	217	244
Duke Energy Progress	122	148
Duke Energy Florida	95	96
Duke Energy Ohio	1	2
Duke Energy Indiana	16	23
Piedmont	78	73

Additionally, Duke Energy Ohio and Duke Energy Indiana sell, on a revolving basis, nearly all of their retail accounts receivable, including receivables for unbilled revenues, to an affiliate, CRC and account for the transfers of receivables as sales. Accordingly, the receivables sold are not reflected on the Consolidated Balance Sheets of Duke Energy Ohio and Duke Energy Indiana. See Note 18 for further information. These receivables for unbilled revenues are shown in the table below.

(in millions)	December 31,	
	2019	2018
Duke Energy Ohio	\$ 82	\$ 86
Duke Energy Indiana	115	128

20. STOCKHOLDERS' EQUITY

Basic EPS is computed by dividing net income available to Duke Energy common stockholders, as adjusted for distributed and undistributed earnings allocated to participating securities, by the weighted average number of common shares outstanding during the period. Diluted EPS is computed by dividing net income available to Duke Energy common stockholders, as adjusted for distributed and undistributed earnings allocated to participating securities, by the diluted weighted average number of common shares outstanding during the period. Diluted EPS reflects the potential dilution that could occur if

securities or other agreements to issue common stock, such as stock options and equity forward sale agreements, were exercised or settled. Duke Energy's participating securities are RSUs that are entitled to dividends declared on Duke Energy common stock during the RSUs vesting periods. Dividends declared on preferred stock are recorded on the Consolidated Statements of Operations as a reduction of net income to arrive at net income available to Duke Energy common stockholders. Dividends accumulated on preferred stock are a reduction to net income used in the calculation of basic and diluted EPS.

The following table presents Duke Energy's basic and diluted EPS calculations, the weighted average number of common shares outstanding and common and preferred share dividends declared.

(in millions, except per share amounts)	Years Ended December 31,		
	2019	2018	2017
Income from continuing operations available to Duke Energy common stockholders excluding impact of participating securities and including accumulated preferred stock dividends	\$3,694	\$2,642	\$3,059
Weighted average common shares outstanding – basic and diluted	729	708	700
EPS from continuing operations available to Duke Energy common stockholders			
Basic and diluted	\$ 5.07	\$ 3.73	\$ 4.37
Potentially dilutive items excluded from the calculation ^(a)	2	2	2
Dividends declared per common share	\$ 3.75	\$ 3.64	\$ 3.49
Dividends declared on Series A preferred stock per depositary share	\$ 1.03	\$ —	\$ —

(a) Performance stock awards were not included in the dilutive securities calculation because the performance measures related to the awards had not been met.

Common Stock

In February 2018, Duke Energy filed a prospectus supplement and executed an Equity Distribution Agreement (EDA) under which it may sell up to \$1 billion of its common stock through an ATM offering program, including an equity forward sales component. Under the terms of the EDA, Duke Energy was allowed to issue and sell shares of common stock. The existing ATM offering program expired in September 2019.

In June 2018, Duke Energy marketed two separate tranches, each for 1.3 million shares, of common stock through equity forward transactions under the ATM program. In December 2018, Duke Energy physically settled these equity forwards by delivering 2.6 million shares of common stock in exchange for net proceeds of approximately \$195 million.

In March 2018, Duke Energy marketed an equity offering of 21.3 million shares of common stock through an Underwriting Agreement. In connection with the offering, Duke Energy entered into equity forward sale agreements. The equity

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Combined Notes to Consolidated Financial Statements – (Continued)

forwards required Duke Energy to either physically settle the transactions by issuing 21.3 million shares in exchange for net proceeds at the then-applicable forward sale price specified by the agreements, or net settle in whole or in part through the delivery or receipt of cash or shares. In June 2018, Duke Energy physically settled one-half of the equity forwards by delivering approximately 10.6 million shares of common stock in exchange for net cash proceeds of approximately \$781 million. In December 2018, Duke Energy physically settled the remaining equity forward by delivering 10.6 million shares of common stock in exchange for net cash proceeds of approximately \$766 million.

In March and April 2019, Duke Energy marketed two separate tranches, each for 1.1 million shares, of common stock through equity forward transactions under the ATM program. The first tranche had an initial forward price of \$89.83 per share and the second tranche had an initial forward price of \$88.82 per share. In May and June 2019, a third tranche of 1.6 million shares of common stock was marketed and had an initial forward price of \$86.23. The equity forwards required Duke Energy to either physically settle the transaction by issuing shares in exchange for net proceeds at the then-applicable forward sale price specified by the agreements or net settle in whole or in part through the delivery or receipt of cash or shares. The settlement alternative was at Duke Energy's election. In December 2019, Duke Energy physically settled the equity forwards by delivering 3.8 million shares of common stock in exchange for net cash proceeds of approximately \$331 million.

In November 2019, Duke Energy filed a prospectus supplement and executed an EDA under which it may sell up to \$1.5 billion of its common stock through a new ATM offering program, including an equity forward sales component. Under the terms of the EDA, Duke Energy may issue and sell shares of common stock through September 2022.

In November 2019, Duke Energy marketed an equity offering of 28.75 million shares of common stock through an Underwriting Agreement. In connection with the offering, Duke Energy entered into equity forward sales agreements with an initial forward price of \$85.99 per share. The equity forward sales agreements require Duke Energy to either physically settle the transaction by issuing shares in exchange for net proceeds at the then-applicable forward sale price specified by the agreement, or net settle in whole or in part through the delivery or receipt of cash or shares. The settlement alternatives are at Duke Energy's election. Settlement of the forward sales agreements are expected to occur on or prior to December 31, 2020. If Duke Energy had elected to net share settle these contracts as of December 31, 2019, Duke Energy would have been required to deliver 1.6 million shares.

For the years ended December 31, 2019, and 2018, Duke Energy issued 1.8 million and 2.2 million shares, respectively, through its DRIP with an increase in additional paid-in capital of approximately \$160 million and \$174 million, respectively.

Preferred Stock

On March 29, 2019, Duke Energy completed the issuance of 40 million depositary shares, each representing 1/1,000th share of its Series A Cumulative Redeemable Perpetual Preferred Stock, at a price of \$25 per depositary share. The transaction resulted in net proceeds of \$973 million after issuance costs with proceeds used for general corporate purposes and to reduce short-term debt. The preferred stock has a \$25 liquidation preference per depositary share and earns dividends on a cumulative basis at a rate of 5.75% per annum. Dividends are payable quarterly in arrears on the 16th day of March, June, September and December, and began on June 16, 2019.

The Series A Preferred Stock has no maturity or mandatory redemption date, is not redeemable at the option of the holders and includes separate call

options. The first call option allows Duke Energy to call the Series A Preferred Stock at a redemption price of \$25.50 per depositary share prior to June 15, 2024, in whole but not in part, at any time within 120 days after a ratings event where a rating agency amends, clarifies or changes the criteria it uses to assign equity credit for securities such as the preferred stock. The second call option allows Duke Energy to call the preferred stock, in whole or in part, at any time, on or after June 15, 2024, at a redemption price of \$25 per depositary share. Duke Energy is also required to redeem all accumulated and unpaid dividends if either call option is exercised.

On September 12, 2019, Duke Energy completed the issuance of 1 million shares of its Series B Fixed-Rate Reset Cumulative Redeemable Perpetual Preferred Stock, at a price of \$1,000 per share. The transaction resulted in net proceeds of \$989 million after issuance costs with proceeds being used to pay down short-term debt, repay at maturity \$500 million senior notes due September 2019, and for general corporate purposes. The preferred stock has a \$1,000 liquidation preference per share and earns dividends on a cumulative basis at an initial rate of 4.875% per annum. Dividends are payable semiannually in arrears on the 16th day of March and September, beginning on March 16, 2020. On September 16, 2024, the First Call Date, and any fifth anniversary of the First Call Date (each a Reset Date), the dividend rate will reset based on the then current five-year U.S. treasury rate plus a spread of 3.388%.

The Series B Preferred Stock has no maturity or mandatory redemption date, is not redeemable at the option of the holders and includes separate call options. The first call option allows Duke Energy to call the Series B Preferred Stock at a redemption price of \$1,020 per share, in whole but not in part, at any time within 120 days after a ratings event. The second call option allows Duke Energy to call the preferred stock, in whole or in part, on the First Call Date or any subsequent Reset Date at a redemption price in cash equal to \$1,000 per share. Duke Energy is also required to redeem all accumulated and unpaid dividends if either call option is exercised.

Dividends issued on its Series A and Series B Preferred Stock are subject to approval by the Board of Directors. However, the deferral of dividend payments on the preferred stock prohibits the declaration of common stock dividends.

The Series A and Series B Preferred Stock rank, with respect to dividends and distributions upon liquidation or dissolution:

- senior to Common Stock and to each other class or series of capital stock established after the original issue date of the Series A and Series B Preferred Stock that is expressly made subordinated to the Series A and Series B Preferred Stock;
- on a parity with any class or series of capital stock established after the original issue date of the Series A and Series B Preferred Stock that is not expressly made senior or subordinated to the Series A or Series B Preferred Stock;
- junior to any class or series of capital stock established after the original issue date of the Series A and Series B Preferred Stock that is expressly made senior to the Series A or Series B Preferred Stock;
- junior to all existing and future indebtedness (including indebtedness outstanding under Duke Energy's credit facilities, unsecured senior notes, junior subordinated debentures and commercial paper) and other liabilities with respect to assets available to satisfy claims against Duke Energy; and

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Combined Notes to Consolidated Financial Statements – (Continued)

- structurally subordinated to existing and future indebtedness and other liabilities of Duke Energy's subsidiaries and future preferred stock of subsidiaries.

Holders of Series A and Series B Preferred Stock have no voting rights with respect to matters that generally require the approval of voting stockholders. The limited voting rights of holders of Series A and Series B Preferred Stock include the right to vote as a single class, respectively, on certain matters that may affect

the preference or special rights of the preferred stock, except in the instance that Duke Energy elects to defer the payment of dividends for a total of six quarterly full dividend periods for Series A Preferred Stock or three semiannual full dividend periods for Series B Preferred Stock. If dividends are deferred for a cumulative total of six quarterly full dividend periods for Series A Preferred Stock or three semiannual full dividend periods for Series B Preferred Stock, whether or not for consecutive dividend periods, holders of the respective preferred stock have the right to elect two additional Board members to the Board of Directors.

21. SEVERANCE

During 2018, Duke Energy reviewed its operations and identified opportunities for improvement to better serve its customers. This operational review included the company's workforce strategy and staffing levels to ensure the company was staffed with the right skillsets and number of teammates to execute the long-term vision for Duke Energy. As such, Duke Energy extended voluntary and involuntary severance benefits to certain employees in specific areas as a part of workforce planning and digital transformation efforts.

The following table presents the direct and allocated severance and related charges accrued for approximately 140 employees in 2019, 1,900 employees in 2018 and 100 employees in 2017 by the Duke Energy Registrants within Operation, maintenance and other on the Consolidated Statements of Operations.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Year Ended December 31, 2019	\$ 16	\$ 8	\$ 6	\$ 3	\$ 3	\$ —	\$ 1	\$ 1
Year Ended December 31, 2018	187	102	69	52	17	6	7	2
Year Ended December 31, 2017	15	2	2	1	1	—	1	9

The table below presents the severance liability for past and ongoing severance plans including the plans described above.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Balance at December 31, 2018	\$ 205	\$ 100	\$ 51	\$ 41	\$ 9	\$ 2	\$ 2	\$ —
Provision/Adjustments	24	4	11	2	10	1	1	—
Cash Reductions	(188)	(93)	(49)	(37)	(12)	(2)	(1)	—
Balance at December 31, 2019	\$ 41	\$ 11	\$ 13	\$ 6	\$ 7	\$ 1	\$ 2	\$ —

22. STOCK-BASED COMPENSATION

The Duke Energy Corporation 2015 Long-Term Incentive Plan (the 2015 Plan) provides for the grant of stock-based compensation awards to employees and outside directors. The 2015 Plan reserves 10 million shares of common stock for issuance. Duke Energy has historically issued new shares upon exercising or vesting of share-based awards. However, Duke Energy may use a combination of new share issuances and open market repurchases for share-based awards that are exercised or vest in the future. Duke Energy has not determined with certainty the amount of such new share issuances or open market repurchases.

The following table summarizes the total expense recognized by the Duke Energy Registrants, net of tax, for stock-based compensation.

	Years Ended December 31,		
(in millions)	2019	2018	2017
Duke Energy	\$ 65	\$ 56	\$ 43
Duke Energy Carolinas	24	20	15
Progress Energy	24	21	16
Duke Energy Progress	15	13	10
Duke Energy Florida	9	8	6
Duke Energy Ohio	5	4	3
Duke Energy Indiana	6	5	4
Piedmont	3	3	3

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Combined Notes to Consolidated Financial Statements – (Continued)

Duke Energy's pretax stock-based compensation costs, the tax benefit associated with stock-based compensation expense and stock-based compensation costs capitalized are included in the following table.

(in millions)	Years Ended December 31,		
	2019	2018	2017
RSU awards	\$ 44	\$ 43	\$ 41
Performance awards	45	35	27
Pretax stock-based compensation cost	\$ 89	\$ 78	\$ 68
Stock-based compensation costs capitalized	5	5	4
Stock-based compensation expense	\$ 84	\$ 73	\$ 64
Tax benefit associated with stock-based compensation expense	\$ 19	\$ 17	\$ 25

RESTRICTED STOCK UNIT AWARDS

RSU awards generally vest over periods from immediate to three years. Fair value amounts are based on the market price of Duke Energy's common stock on the grant date. The following table includes information related to RSU awards.

	Years Ended December 31,		
	2019	2018	2017
Shares granted (in thousands)	571	649	583
Fair value (in millions)	\$ 51	\$ 49	\$ 47

The following table summarizes information about RSU awards outstanding.

	Shares (in thousands)	Weighted Average Grant Date Fair Value (per share)
Outstanding at December 31, 2018	1,153	\$ 77
Granted	571	89
Vested	(631)	77
Forfeited	(83)	82
Outstanding at December 31, 2019	1,010	83
RSU awards expected to vest	951	83

The total grant date fair value of shares vested during the years ended December 31, 2019, 2018 and 2017, was \$49 million, \$43 million and \$42 million, respectively. At December 31, 2019, Duke Energy had \$30 million of unrecognized compensation cost, which is expected to be recognized over a weighted average period of 23 months. Prior to Duke Energy's acquisition of Piedmont, Piedmont had an incentive compensation plan that had a series of three-year performance and RSU awards for eligible officers and other participants. The 2016-2018 performance award cycle was approved subsequent to the Agreement and Plan of Merger between Duke Energy and Piedmont and was converted into a Duke Energy RSU award at the consummation of the acquisition.

PERFORMANCE AWARDS

Stock-based performance awards generally vest after three years if performance targets are met. The actual number of shares issued will range from zero to 200% of target shares, depending on the level of performance achieved.

Performance awards contain performance conditions and a market condition. The performance conditions are based on Duke Energy's cumulative adjusted EPS and total incident case rate (total incident case rate is one of our key employee safety metrics). The market condition is based on TSR of Duke Energy relative to a predefined peer group.

Relative TSR is valued using a path-dependent model that incorporates expected relative TSR into the fair value determination of Duke Energy's performance-based share awards. The model uses three-year historical volatilities and correlations for all companies in the predefined peer group, including Duke Energy, to simulate Duke Energy's relative TSR as of the end of the performance period. For each simulation, Duke Energy's relative TSR associated with the simulated stock price at the end of the performance period plus expected dividends within the period results in a value per share for the award portfolio. The average of these simulations is the expected portfolio value per share. Actual life to date results of Duke Energy's relative TSR for each grant are incorporated within the model. For performance awards granted in 2019, the model used a risk-free interest rate of 2.5%, which reflects the yield on three-year Treasury bonds as of the grant date, and an expected volatility of 14.8% based on Duke Energy's historical volatility over three years using daily stock prices.

The following table includes information related to stock-based performance awards.

	Years Ended December 31,		
	2019	2018	2017
Shares granted assuming target performance (in thousands)	320	372	461
Fair value (in millions)	\$ 27	\$ 27	\$ 37

The following table summarizes information about stock-based performance awards outstanding and assumes payout at the target level.

	Shares (in thousands)	Weighted Average Grant Date Fair Value (per share)
Outstanding at December 31, 2018	1,117	\$ 77
Granted	320	86
Vested	(310)	75
Forfeited	(18)	81
Outstanding at December 31, 2019	1,109	80
Stock-based performance awards expected to vest	1,080	80

The total grant date fair value of shares vested during the years ended December 31, 2019, and 2018, was \$23 million and \$13 million, respectively. No performance awards vested during the year ended December 31, 2017. At December 31, 2019, Duke Energy had \$27 million of unrecognized compensation cost, which is expected to be recognized over a weighted average period of 22 months.

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Combined Notes to Consolidated Financial Statements – (Continued)

23. EMPLOYEE BENEFIT PLANS

DEFINED BENEFIT RETIREMENT PLANS

Duke Energy and certain subsidiaries maintain, and the Subsidiary Registrants participate in, qualified, non-contributory defined benefit retirement plans. The Duke Energy plans cover most employees using a cash balance formula. Under a cash balance formula, a plan participant accumulates a retirement benefit consisting of pay credits based upon a percentage of current eligible earnings, age or age and years of service and interest credits. Certain employees are eligible for benefits that use a final average earnings formula. Under these final average earnings formulas, a plan participant accumulates a retirement benefit equal to the sum of percentages of their (i) highest three-year, four-year, or five-year average earnings, (ii) highest three-year, four-year, or five-year average earnings in excess of covered compensation per year of participation (maximum of 35 years) or (iii) highest three-year average earnings times years of participation in excess of 35 years. Duke Energy also maintains, and the Subsidiary Registrants participate in, non-qualified, non-contributory defined benefit retirement plans that cover certain executives. The qualified and non-qualified, non-contributory defined benefit plans are closed to new participants.

Duke Energy approved plan amendments to restructure its qualified non-contributory defined benefit retirement plans, effective January 1, 2018. The restructuring involved (i) the spin-off of the majority of inactive participants from two plans into a separate inactive plan and (ii) the merger of the active participant portions of such plans, along with a pension plan acquired as part of the Piedmont transaction, into a single active plan. Benefits offered to the plan participants remain unchanged except that the Piedmont plan's final average earnings formula was frozen as of December 31, 2017, and affected participants were moved into the active plan's cash balance formula. Actuarial gains and losses associated with the Inactive Plan will be amortized over the remaining life expectancy of the inactive participants. The longer amortization period lowered Duke Energy's 2018 pretax qualified pension plan expense by approximately \$33 million.

Duke Energy uses a December 31 measurement date for its defined benefit retirement plan assets and obligations.

As a result of the application of settlement accounting due to total lump-sum benefit payments exceeding the settlement threshold (defined as the sum of the service cost and interest cost on projected benefit obligation components of net periodic pension costs) for one of its qualified pension plans, Duke Energy recognized settlement charges of \$94 million, primarily as a regulatory asset within Other Noncurrent Assets on the Consolidated Balance Sheets as of December 31, 2019 (an immaterial amount was recorded in Other income and expenses, net within the Consolidated Statement of Operations).

Settlement charges recognized by the Subsidiary Registrants as of December 31, 2019, which represent amounts allocated by Duke Energy for employees of the Subsidiary Registrants and allocated charges for their proportionate share of settlement charges for employees of Duke Energy's shared services affiliate, were \$53 million for Duke Energy Carolinas, \$26 million for Progress Energy, \$20 million for Duke Energy Progress, \$6 million for Duke Energy Florida, \$4 million for Duke Energy Indiana, \$2 million for Duke Energy Ohio and \$8 million for Piedmont.

The settlement charges reflect the recognition of a pro-rata portion of previously unrecognized actuarial losses, equal to the percentage of reduction in the projected benefit obligation resulting from total lump-sum benefit payments as of December 31, 2019. Settlement charges recognized as a regulatory asset within Other Noncurrent Assets on the Consolidated Balance Sheets are amortized over the average remaining service period for participants in the plan. Amortization of settlement charges is disclosed in the tables below as a component of net periodic pension costs.

Net periodic benefit costs disclosed in the tables below represent the cost of the respective benefit plan for the periods presented prior to capitalization of amounts reflected as Net property, plant and equipment, on the Consolidated Balance Sheets. Only the service cost component of net periodic benefit costs is eligible to be capitalized. The remaining non-capitalized portions of net periodic benefit costs are classified as either: (1) service cost, which is recorded in Operations, maintenance and other on the Consolidated Statements of Operations; or as (2) components of non-service cost, which is recorded in Other income and expenses, net, on the Consolidated Statements of Operations. Amounts presented in the tables below for the Subsidiary Registrants represent the amounts of pension and other post-retirement benefit cost allocated by Duke Energy for employees of the Subsidiary Registrants. Additionally, the Consolidated Statements of Operations of the Subsidiary Registrants also include allocated net periodic benefit costs for their proportionate share of pension and post-retirement benefit cost for employees of Duke Energy's shared services affiliate that provide support to the Subsidiary Registrants. However, in the tables below, these amounts are only presented within the Duke Energy column (except for amortization of settlement charges). These allocated amounts are included in the governance and shared service costs discussed in Note 14.

Duke Energy's policy is to fund amounts on an actuarial basis to provide assets sufficient to meet benefit payments to be paid to plan participants. Duke Energy does not anticipate making any contributions in 2020. The following table includes information related to the Duke Energy Registrants' contributions to its qualified defined benefit pension plans.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Contributions Made:								
2019	\$ 77	\$ 7	\$ 57	\$ 4	\$ 53	\$ 2	\$ 2	\$ 1
2018	141	46	45	25	20	—	8	—
2017	19	—	—	—	—	4	—	11

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Combined Notes to Consolidated Financial Statements – (Continued)

QUALIFIED PENSION PLANS

Components of Net Periodic Pension Costs

	Year Ended December 31, 2019							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 158	\$ 49	\$ 46	\$ 26	\$ 20	\$ 4	\$ 9	\$ 5
Interest cost on projected benefit obligation	317	75	100	45	54	18	26	10
Expected return on plan assets	(567)	(147)	(178)	(88)	(89)	(28)	(43)	(22)
Amortization of actuarial loss	108	24	39	15	24	4	8	8
Amortization of prior service credit	(32)	(8)	(3)	(2)	(1)	—	(2)	(9)
Amortization of settlement charges	6	2	1	1	—	2	—	—
Net periodic pension costs ^{(a)(b)}	\$ (10)	\$ (5)	\$ 5	\$ (3)	\$ 8	\$ —	\$ (2)	\$ (8)

	Year Ended December 31, 2018							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 182	\$ 58	\$ 51	\$ 29	\$ 22	\$ 5	\$ 11	\$ 7
Interest cost on projected benefit obligation	299	72	94	43	50	17	23	11
Expected return on plan assets	(559)	(147)	(178)	(85)	(91)	(28)	(42)	(22)
Amortization of actuarial loss	132	29	44	21	23	5	10	11
Amortization of prior service credit	(32)	(8)	(3)	(2)	(1)	—	(2)	(10)
Net periodic pension costs ^{(a)(b)}	\$ 22	\$ 4	\$ 8	\$ 6	\$ 3	\$ (1)	\$ —	\$ (3)

	Year Ended December 31, 2017							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 159	\$ 48	\$ 45	\$ 26	\$ 19	\$ 4	\$ 9	\$ 10
Interest cost on projected benefit obligation	328	79	100	47	53	18	26	14
Expected return on plan assets	(545)	(142)	(167)	(82)	(85)	(27)	(42)	(24)
Amortization of actuarial loss	146	31	52	23	29	5	12	11
Amortization of prior service credit	(24)	(8)	(3)	(2)	(1)	(1)	(2)	(2)
Settlement charge	12	—	—	—	—	—	—	12
Other	8	2	2	1	1	—	1	1
Net periodic pension costs ^{(a)(b)}	\$ 84	\$ 10	\$ 29	\$ 13	\$ 16	\$ (1)	\$ 4	\$ 22

(a) Duke Energy amounts exclude \$4 million, \$5 million and \$7 million for the years ended December 2019, 2018 and 2017, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.

(b) Duke Energy Ohio amounts exclude \$2 million, \$2 million and \$3 million for the years ended December 2019, 2018 and 2017, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.

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Combined Notes to Consolidated Financial Statements – (Continued)

Amounts Recognized in Accumulated Other Comprehensive Income and Regulatory Assets

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net increase (decrease)	\$ (212)	\$ (156)	\$ (79)	\$ (59)	\$ (20)	\$ 12	\$ 22	\$ —
Accumulated other comprehensive loss (income)								
Deferred income tax expense (benefit)	\$ 20	—	1	—	(1)	—	—	—
Amortization of prior year service credit	1	—	—	—	—	—	—	—
Amortization of prior year actuarial losses	(15)	—	(2)	—	3	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ 6	\$ —	\$ (1)	\$ —	\$ 2	\$ —	\$ —	\$ —

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net increase	\$ 298	\$ 170	\$ 40	\$ 31	\$ 9	\$ 10	\$ 30	\$ 8
Accumulated other comprehensive (income) loss								
Deferred income tax expense	\$ (2)	\$ —	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —
Prior year service credit arising during the year	1	—	—	—	—	—	—	—
Amortization of prior year actuarial losses	10	—	(4)	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ 9	\$ —	\$ (3)	\$ —	\$ —	\$ —	\$ —	\$ —

Reconciliation of Funded Status to Net Amount Recognized

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Obligation at prior measurement date	\$ 7,869	\$ 1,954	\$ 2,433	\$ 1,125	\$ 1,295	\$ 435	\$ 618	\$ 264
Service cost	150	47	43	25	18	4	8	5
Interest cost	317	75	100	45	54	18	26	10
Actuarial loss	716	101	223	87	135	54	87	33
Transfers	—	11	—	—	—	—	—	—
Benefits paid	(731)	(265)	(191)	(112)	(78)	(30)	(46)	(20)
Obligation at measurement date	\$ 8,321	\$ 1,923	\$ 2,608	\$ 1,170	\$ 1,424	\$ 481	\$ 693	\$ 292
Accumulated Benefit Obligation at measurement date	\$ 8,262	\$ 1,923	\$ 2,578	\$ 1,170	\$ 1,392	\$ 471	\$ 686	\$ 292
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 8,233	\$ 2,168	\$ 2,606	\$ 1,268	\$ 1,322	\$ 405	\$ 611	\$ 305
Employer contributions	77	7	57	4	53	2	2	1
Actual return on plan assets	1,331	342	426	204	218	66	100	49
Benefits paid	(731)	(265)	(191)	(112)	(78)	(30)	(46)	(20)
Transfers	—	11	—	—	—	—	—	—
Plan assets at measurement date	\$ 8,910	\$ 2,263	\$ 2,898	\$ 1,364	\$ 1,515	\$ 443	\$ 667	\$ 335
Funded status of plan	\$ 589	\$ 340	\$ 290	\$ 194	\$ 91	\$ (38)	\$ (26)	\$ 43

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Combined Notes to Consolidated Financial Statements – (Continued)

	Year Ended December 31, 2018							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Obligation at prior measurement date	\$ 8,448	\$ 2,029	\$ 2,637	\$ 1,211	\$ 1,410	\$ 479	\$ 669	\$ 313
Service cost	174	56	49	28	21	5	10	7
Interest cost	299	72	94	43	50	17	23	11
Actuarial gain	(485)	(44)	(204)	(87)	(114)	(29)	(29)	(18)
Transfers	—	—	—	—	—	—	—	(16)
Benefits paid	(567)	(159)	(143)	(70)	(72)	(37)	(55)	(33)
Obligation at measurement date	\$ 7,869	\$ 1,954	\$ 2,433	\$ 1,125	\$ 1,295	\$ 435	\$ 618	\$ 264
Accumulated Benefit Obligation at measurement date	\$ 7,818	\$ 1,954	\$ 2,404	\$ 1,125	\$ 1,265	\$ 425	\$ 614	\$ 264
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 9,003	\$ 2,372	\$ 2,814	\$ 1,366	\$ 1,429	\$ 458	\$ 684	\$ 368
Employer contributions	141	46	45	25	20	—	8	—
Actual return on plan assets	(344)	(91)	(110)	(53)	(55)	(16)	(26)	(14)
Benefits paid	(567)	(159)	(143)	(70)	(72)	(37)	(55)	(33)
Transfers	—	—	—	—	—	—	—	(16)
Plan assets at measurement date	\$ 8,233	\$ 2,168	\$ 2,606	\$ 1,268	\$ 1,322	\$ 405	\$ 611	\$ 305
Funded status of plan	\$ 364	\$ 214	\$ 173	\$ 143	\$ 27	\$ (30)	\$ (7)	\$ 41

Amounts Recognized in the Consolidated Balance Sheets

	December 31, 2019							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Prefunded pension ^(a)	\$ 621	\$ 340	\$ 322	\$ 194	\$ 123	\$ 38	\$ 57	\$ 43
Noncurrent pension liability ^(b)	\$ 32	\$ —	\$ 32	\$ —	\$ 32	\$ 76	\$ 83	\$ —
Net asset (liability) recognized	\$ 589	\$ 340	\$ 290	\$ 194	\$ 91	\$ (38)	\$ (26)	\$ 43
Regulatory assets	\$ 1,972	\$ 420	\$ 717	\$ 313	\$ 404	\$ 112	\$ 204	\$ 81
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (23)	\$ —	\$ (1)	\$ —	\$ (1)	\$ —	\$ —	\$ —
Prior service credit	(3)	—	—	—	—	—	—	—
Net actuarial loss	111	—	3	—	3	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 85	\$ —	\$ 2	\$ —	\$ 2	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension costs in the next year								
Unrecognized net actuarial loss	\$ 135	\$ 29	\$ 43	\$ 19	\$ 24	\$ 7	\$ 10	\$ 9
Unrecognized prior service credit	(32)	(8)	(3)	(2)	(1)	(1)	(2)	(9)

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Prefunded pension ^(a)	\$ 433	\$ 214	\$ 242	\$ 143	\$ 96	\$ 24	\$ 39	\$ 41
Noncurrent pension liability ^(b)	\$ 69	\$ —	\$ 69	\$ —	\$ 69	\$ 54	\$ 46	\$ —
Net asset recognized	\$ 364	\$ 214	\$ 173	\$ 143	\$ 27	\$ (30)	\$ (7)	\$ 41
Regulatory assets	\$ 2,184	\$ 576	\$ 796	\$ 372	\$ 424	\$ 100	\$ 182	\$ 81
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (43)	\$ —	\$ (2)	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(4)	—	—	—	—	—	—	—
Net actuarial loss	126	—	5	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 79	\$ —	\$ 3	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension costs in the next year								
Unrecognized net actuarial loss	\$ 97	\$ 22	\$ 37	\$ 13	\$ 24	\$ 3	\$ 5	\$ 7
Unrecognized prior service credit	\$ (32)	\$ (8)	\$ (3)	\$ (2)	\$ (1)	\$ —	\$ (2)	\$ (9)

(a) Included in Other within Other Noncurrent Assets on the Consolidated Balance Sheets.

(b) Included in Accrued pension and other post-retirement benefit costs on the Consolidated Balance Sheets.

Information for Plans with Accumulated Benefit Obligation in Excess of Plan Assets

(in millions)	December 31, 2019	
	Duke Energy Ohio	Duke Energy Indiana
Projected benefit obligation	\$ 155	\$ 260
Accumulated benefit obligation	146	252
Fair value of plan assets	79	177

(in millions)	December 31, 2018				
	Duke Energy	Progress Energy	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Projected benefit obligation	\$ 679	\$ 679	\$ 679	\$ 123	\$ 203
Accumulated benefit obligation	651	651	651	115	199
Fair value of plan assets	610	610	610	69	159

Assumptions Used for Pension Benefits Accounting

The discount rate used to determine the current year pension obligation and following year's pension expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

The average remaining service period for participants in active plans and life expectancy of participants in inactive plans is 12 years for Duke Energy, Duke Energy Carolinas, Progress Energy and Duke Energy Florida, 13 years for Duke Energy Progress, Duke Energy Indiana and Duke Energy Ohio, and 9 years for Piedmont.

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Combined Notes to Consolidated Financial Statements – (Continued)

The following tables present the assumptions or range of assumptions used for pension benefit accounting.

	December 31,		
	2019	2018	2017
Benefit Obligations			
Discount rate	3.30%	4.30%	3.60%
Salary increase	3.50% – 4.00%	3.50% – 4.00%	3.50% – 4.00%
Net Periodic Benefit Cost			
Discount rate	4.30%	3.60%	4.10%
Salary increase	3.50% – 4.00%	3.50% – 4.00%	4.00% – 4.50%
Expected long-term rate of return on plan assets	6.85%	6.50%	6.50% – 6.75%

Expected Benefit Payments

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Years ending December 31,								
2020	\$ 643	\$ 167	\$ 169	\$ 89	\$ 79	\$ 37	\$ 50	\$ 28
2021	653	171	178	95	82	37	50	24
2022	649	177	176	92	84	37	49	22
2023	649	174	182	95	86	36	48	21
2024	638	168	184	96	87	35	48	20
2025-2029	2,851	714	871	419	448	156	220	87

NON-QUALIFIED PENSION PLANS

The accumulated benefit obligation, which equals the projected benefit obligation for non-qualified pension plans, was \$318 million for Duke Energy, \$15 million for Duke Energy Carolinas, \$110 million for Progress Energy, \$32 million for Duke Energy Progress, \$45 million for Duke Energy Florida, \$4 million for Duke Energy Ohio, \$3 million for Duke Energy Indiana and \$4 million for Piedmont as of December 31, 2019.

Employer contributions, which equal benefits paid for non-qualified pension plans, were \$25 million for Duke Energy, \$2 million for Duke Energy Carolinas, \$9 million for Progress Energy, \$3 million for Duke Energy Progress and \$3 million for Duke Energy Florida for the year ended December 31, 2019. Employer contributions were not material for Duke Energy Ohio, Duke Energy Indiana or Piedmont for the year ended December 31, 2019.

Net periodic pension costs for non-qualified pension plans were not material for the years ended December 31, 2019, 2018 or 2017.

OTHER POST-RETIREMENT BENEFIT PLANS

Duke Energy provides, and the Subsidiary Registrants participate in, some health care and life insurance benefits for retired employees on a contributory and non-contributory basis. Employees are eligible for these benefits if they have met age and service requirements at retirement, as defined in the plans. The health care benefits include medical, dental and prescription drug coverage and are subject to certain limitations, such as deductibles and copayments.

Duke Energy did not make any pre-funding contributions to its other post-retirement benefit plans during the years ended December 31, 2019, 2018 or 2017.

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Combined Notes to Consolidated Financial Statements – (Continued)

Components of Net Periodic Other Post-Retirement Benefit Costs

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 4	\$ 1	\$ 1	\$ —	\$ 1	\$ —	\$ 1	\$ —
Interest cost on accumulated post-retirement benefit obligation	30	7	12	7	5	1	3	1
Expected return on plan assets	(12)	(7)	—	—	—	—	—	(1)
Amortization of actuarial loss	4	2	1	—	1	—	4	—
Amortization of prior service credit	(19)	(5)	(8)	(1)	(7)	(1)	(1)	(2)
Net periodic post-retirement benefit costs ^{(a)(b)}	\$ 7	\$ (2)	\$ 6	\$ 6	\$ —	\$ —	\$ 7	\$ (2)

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 6	\$ 1	\$ 1	\$ —	\$ 1	\$ 1	\$ 1	\$ 1
Interest cost on accumulated post-retirement benefit obligation	28	7	12	6	6	1	3	1
Expected return on plan assets	(13)	(8)	—	—	—	—	—	(2)
Amortization of actuarial loss	6	3	1	1	—	—	4	—
Amortization of prior service credit	(19)	(5)	(8)	(1)	(7)	(1)	(1)	(2)
Net periodic post-retirement benefit costs ^{(a)(b)}	\$ 8	\$ (2)	\$ 6	\$ 6	\$ —	\$ 1	\$ 7	\$ (2)

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 4	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 1
Interest cost on accumulated post-retirement benefit obligation	34	8	13	7	6	1	3	1
Expected return on plan assets	(14)	(8)	—	—	—	—	(1)	(2)
Amortization of actuarial loss (gain)	10	(2)	21	12	9	(2)	(1)	1
Amortization of prior service credit	(115)	(10)	(84)	(54)	(30)	—	(1)	—
Curtailement credit ^(c)	(30)	(4)	(16)	—	(16)	(2)	(2)	—
Net periodic post-retirement benefit costs ^{(a)(b)}	\$ (111)	\$ (15)	\$ (66)	\$ (35)	\$ (31)	\$ (3)	\$ (2)	\$ 1

(a) Duke Energy amounts exclude \$6 million, \$7 million and \$7 million for the years ended December 2019, 2018 and 2017, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.

(b) Duke Energy Ohio amounts exclude \$2 million, \$2 million and \$2 million for the years ended December 2019, 2018 and 2017, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.

(c) Curtailment credit resulted from a reduction in average future service of plan participants due to a plan amendment.

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Combined Notes to Consolidated Financial Statements – (Continued)

Amounts Recognized in Accumulated Other Comprehensive Income and Regulatory Assets and Liabilities

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net increase (decrease)	\$ (127)	\$ —	\$ (127)	\$ (82)	\$ (45)	\$ —	\$ (5)	\$ —
Regulatory liabilities, net increase (decrease)	\$ (152)	\$ 1	\$ (149)	\$ (93)	\$ (56)	\$ (1)	\$ (4)	\$ 3
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amortization of prior year actuarial gain	(4)	—	—	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ (4)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net increase (decrease)	\$ 137	\$ —	\$ 133	\$ 84	\$ 49	\$ —	\$ (5)	\$ 4
Regulatory liabilities, net increase (decrease)	\$ 154	\$ (6)	\$ 149	\$ 93	\$ 56	\$ 2	\$ 3	\$ —
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (1)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amortization of prior year prior service credit	1	—	—	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

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Combined Notes to Consolidated Financial Statements – (Continued)

Reconciliation of Funded Status to Accrued Other Post-Retirement Benefit Costs

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Accumulated post-retirement benefit obligation at prior measurement date	\$ 728	\$ 174	\$ 303	\$ 166	\$ 137	\$ 29	\$ 67	\$ 30
Service cost	4	1	1	—	1	—	1	—
Interest cost	30	7	12	7	5	1	3	1
Plan participants' contributions	16	3	6	3	2	1	2	—
Actuarial losses	28	9	13	9	5	1	2	—
Transfers	—	—	—	—	—	—	—	—
Benefits paid	(83)	(19)	(32)	(17)	(15)	(3)	(11)	(1)
Accumulated post-retirement benefit obligation at measurement date	\$ 723	\$ 175	\$ 303	\$ 168	\$ 135	\$ 29	\$ 64	\$ 30
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 195	\$ 115	\$ —	\$ —	\$ —	\$ 8	\$ 5	\$ 29
Actual return on plan assets	32	20	(1)	—	—	1	—	6
Benefits paid	(83)	(19)	(32)	(17)	(15)	(3)	(11)	(1)
Employer contributions	60	11	26	13	13	2	9	—
Plan participants' contributions	16	3	6	3	2	1	2	—
Plan assets at measurement date	\$ 220	\$ 130	\$ (1)	\$ (1)	\$ —	\$ 9	\$ 5	\$ 34
Funded status of plan	\$ (503)	\$ (45)	\$ (304)	\$ (169)	\$ (135)	\$ (20)	\$ (59)	\$ 4

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Accumulated post-retirement benefit obligation at prior measurement date	\$ 813	\$ 189	\$ 342	\$ 184	\$ 156	\$ 30	\$ 78	\$ 32
Service cost	6	1	1	—	1	1	1	1
Interest cost	28	7	12	6	6	1	3	1
Plan participants' contributions	18	3	6	4	3	1	2	—
Actuarial losses (gains)	(51)	(8)	(23)	(9)	(13)	(2)	(5)	(1)
Transfers	—	—	—	—	—	—	—	(1)
Benefits paid	(86)	(18)	(35)	(19)	(16)	(2)	(12)	(2)
Accumulated post-retirement benefit obligation at measurement date	\$ 728	\$ 174	\$ 303	\$ 166	\$ 137	\$ 29	\$ 67	\$ 30
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 225	\$ 133	\$ —	\$ —	\$ —	\$ 7	\$ 11	\$ 31
Actual return on plan assets	(8)	(5)	—	—	—	—	—	(1)
Benefits paid	(86)	(18)	(35)	(19)	(16)	(2)	(12)	(2)
Employer contributions (reimbursements)	46	2	29	15	13	2	4	1
Plan participants' contributions	18	3	6	4	3	1	2	—
Plan assets at measurement date	\$ 195	\$ 115	\$ —	\$ —	\$ —	\$ 8	\$ 5	\$ 29
Funded status of plan	\$ (533)	\$ (59)	\$ (303)	\$ (166)	\$ (137)	\$ (21)	\$ (62)	\$ (1)

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Combined Notes to Consolidated Financial Statements – (Continued)

Amounts Recognized in the Consolidated Balance Sheets

(in millions)	December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current post-retirement liability ^(a)	\$ 9	\$ —	\$ 5	\$ 3	\$ 2	\$ 1	\$ —	\$ —
Noncurrent post-retirement liability ^(b)	494	45	299	166	133	19	59	(4)
Total accrued post-retirement liability	\$ 503	\$ 45	\$ 304	\$ 169	\$ 135	\$ 20	\$ 59	\$ (4)
Regulatory assets	\$ 135	\$ —	\$ 135	\$ 82	\$ 53	\$ —	\$ 36	\$ —
Regulatory liabilities	\$ 149	\$ 39	\$ —	\$ —	\$ —	\$ 17	\$ 63	\$ 3
Accumulated other comprehensive (income) loss								
Deferred income tax expense	\$ 3	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(2)	—	—	—	—	—	—	—
Net actuarial gain	(13)	—	—	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive income	\$ (12)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year								
Unrecognized net actuarial loss	\$ 5	\$ 3	\$ 1	\$ —	\$ 1	\$ —	\$ —	\$ —
Unrecognized prior service credit	(14)	(4)	(3)	(1)	(2)	(1)	(1)	(2)

(in millions)	December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current post-retirement liability ^(a)	\$ 8	\$ —	\$ 5	\$ 3	\$ 2	\$ 2	\$ —	\$ —
Noncurrent post-retirement liability ^(b)	525	59	298	163	135	19	62	1
Total accrued post-retirement liability	\$ 533	\$ 59	\$ 303	\$ 166	\$ 137	\$ 21	\$ 62	\$ 1
Regulatory assets	\$ 262	\$ —	\$ 262	\$ 164	\$ 98	\$ —	\$ 41	\$ —
Regulatory liabilities	\$ 301	\$ 38	\$ 149	\$ 93	\$ 56	\$ 18	\$ 67	\$ —
Accumulated other comprehensive (income) loss								
Deferred income tax expense	\$ 3	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(2)	—	—	—	—	—	—	—
Net actuarial gain	(9)	—	—	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive income	\$ (8)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year								
Unrecognized net actuarial loss (gain)	\$ 4	\$ 2	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —
Unrecognized prior service credit	(19)	(5)	(7)	(1)	(6)	(1)	(1)	(2)

(a) Included in Other within Current Liabilities on the Consolidated Balance Sheets.

(b) Included in Accrued pension and other post-retirement benefit costs on the Consolidated Balance Sheets.

Assumptions Used for Other Post-Retirement Benefits Accounting

The discount rate used to determine the current year other post-retirement benefits obligation and following year's other post-retirement benefits expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

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Combined Notes to Consolidated Financial Statements – (Continued)

The average remaining service period of active covered employees is eight years for Duke Energy and Duke Energy Carolinas, seven years for Progress Energy, Duke Energy Florida, and Duke Energy Ohio, and six years for Duke Energy Progress, Duke Energy Indiana, and Piedmont.

The following tables present the assumptions used for other post-retirement benefits accounting.

	December 31,		
	2019	2018	2017
Benefit Obligations			
Discount rate	3.30%	4.30%	3.60%
Net Periodic Benefit Cost			
Discount rate	4.30%	3.60%	4.10%
Expected long-term rate of return on plan assets	6.85%	6.50%	6.50%
Assumed tax rate	23%	35%	35%

Assumed Health Care Cost Trend Rate

	December 31,	
	2019	2018
Health care cost trend rate assumed for next year	6.00%	6.50%
Rate to which the cost trend is assumed to decline (the ultimate trend rate)	4.75%	4.75%
Year that rate reaches ultimate trend	2026	2024

Sensitivity to Changes in Assumed Health Care Cost Trend Rates

(in millions)	Year Ended December 31, 2019							Piedmont
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	
1-Percentage Point Increase								
Effect on total service and interest costs	\$ 1	\$ —	\$ 1	\$ 1	\$ —	\$ —	\$ —	\$ —
Effect on post-retirement benefit obligation	22	5	9	5	4	1	2	1
1-Percentage Point Decrease								
Effect on total service and interest costs	(1)	—	(1)	(1)	—	—	—	—
Effect on post-retirement benefit obligation	(20)	(5)	(8)	(4)	(4)	(1)	(2)	(1)

Expected Benefit Payments

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Years ending December 31,								
2020	\$ 76	\$18	\$ 29	\$16	\$13	\$ 4	\$ 8	\$ 2
2021	70	17	28	15	13	3	7	2
2022	66	16	27	14	12	3	7	2
2023	63	15	25	14	12	3	6	2
2024	59	15	24	13	11	3	6	2
2025-2029	246	60	101	55	46	11	23	11

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Combined Notes to Consolidated Financial Statements – (Continued)

PLAN ASSETS

Description and Allocations

Duke Energy Master Retirement Trust

Assets for both the qualified pension and other post-retirement benefits are maintained in the Duke Energy Master Retirement Trust. Approximately 98% of the Duke Energy Master Retirement Trust assets were allocated to qualified pension plans and approximately 2% were allocated to other post-retirement plans (comprised of 401(h) accounts), as of December 31, 2019, and 2018. The investment objective of the Duke Energy Master Retirement Trust is to invest in a diverse portfolio of assets that is expected to generate positive surplus return over time (i.e. asset growth greater than liability growth) subject to a prudent level of portfolio risk, for the purpose of enhancing the security of benefits for plan participants.

As of December 31, 2019, Duke Energy assumes pension and other post-retirement plan assets will generate a long-term rate of return of 6.85%. The expected long-term rate of return was developed using a weighted average calculation of expected returns based primarily on future expected returns across asset classes considering the use of active asset managers, where applicable. The asset allocation targets were set after considering the investment objective and the risk profile. Equity securities are held for their higher expected returns. Debt securities are primarily held to hedge the qualified pension plan liability. Real assets, return seeking fixed income, hedge funds and other global securities are held for diversification. Investments within asset classes are diversified to achieve broad market participation and reduce the impact of individual managers or investments.

The following table includes the target asset allocations by asset class at December 31, 2019, and the actual asset allocations for the Duke Energy Master Retirement Trust.

	Target Allocation	Actual Allocation at December 31,	
		2019	2018
U.S. equity securities	—%	—%	11%
Global equity securities	28%	27%	18%
Global private equity securities	1%	1%	2%
Debt securities	58%	57%	63%
Return seeking debt securities	4%	5%	—%
Hedge funds	3%	3%	2%
Real estate and cash	6%	7%	2%
Other global securities	—%	—%	2%
Total	100%	100%	100%

Other post-retirement assets

Duke Energy's other post-retirement assets are comprised of VEBA trusts and 401(h) accounts held within the Duke Energy Master Retirement Trust. Duke Energy's investment objective is to achieve sufficient returns, subject to a prudent level of portfolio risk, for the purpose of promoting the security of plan benefits for participants.

The following table presents target and actual asset allocations for the VEBA trusts at December 31, 2019.

	Target Allocation	Actual Allocation at December 31,	
		2019	2018
U.S. equity securities	33%	35%	43%
Non-U.S. equity securities	7%	9%	8%
Real estate	2%	2%	2%
Debt securities	45%	37%	40%
Cash	13%	17%	7%
Total	100%	100%	100%

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Combined Notes to Consolidated Financial Statements – (Continued)

Fair Value Measurements

Duke Energy classifies recurring and non-recurring fair value measurements based on the fair value hierarchy as discussed in Note 17.

Valuation methods of the primary fair value measurements disclosed below are as follows:

Investments in equity securities

Investments in equity securities are typically valued at the closing price in the principal active market as of the last business day of the reporting period. Principal active markets for equity prices include published exchanges such as NASDAQ and NYSE. Foreign equity prices are translated from their trading currency using the currency exchange rate in effect at the close of the principal active market. Prices have not been adjusted to reflect after-hours market activity. The majority of investments in equity securities are valued using Level 1 measurements. When the price of an institutional commingled fund is unpublished, it is not categorized in the fair value hierarchy, even though the funds are readily available at the fair value.

Investments in corporate debt securities and U.S. government securities

Most debt investments are valued based on a calculation using interest rate curves and credit spreads applied to the terms of the debt instrument (maturity and coupon interest rate) and consider the counterparty credit rating. Most debt valuations are Level 2 measurements. If the market for a particular fixed-income security is relatively inactive or illiquid, the measurement is Level 3. U.S. Treasury debt is typically Level 2.

Investments in short-term investment funds

Investments in short-term investment funds are valued at the net asset value of units held at year end and are readily redeemable at the measurement date. Investments in short-term investment funds with published prices are valued as Level 1. Investments in short-term investment funds with unpublished prices are valued as Level 2.

Duke Energy Master Retirement Trust

The following tables provide the fair value measurement amounts for the Duke Energy Master Retirement Trust qualified pension and other post-retirement assets.

(in millions)	December 31, 2019				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized ^(b)
Equity securities	\$2,730	\$2,712	\$ —	\$ —	\$ 18
Corporate debt securities	3,999	—	3,999	—	—
Short-term investment funds	545	455	90	—	—
Partnership interests	104	—	—	—	104
Hedge funds	206	—	—	—	206
Real estate limited partnerships	—	—	—	—	—
U.S. government securities	1,231	—	1,231	—	—
Guaranteed investment contracts	11	—	—	11	—
Governments bonds – foreign	78	—	78	—	—
Cash	75	75	—	—	—
Net pending transactions and other investments	46	(43)	89	—	—
Total assets^(a)	\$9,025	\$3,199	\$5,487	\$ 11	\$ 328

(a) Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana, and Piedmont were allocated approximately 26%, 31%, 15%, 17%, 5%, 7%, and 4%, respectively, of the Duke Energy Master Retirement Trust at December 31, 2019. Accordingly, all amounts included in the table above are allocable to the Subsidiary Registrants using these percentages.

(b) Certain investments that are measured at fair value using the net asset value per share practical expedient have not been categorized in the fair value hierarchy.

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Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	December 31, 2018				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized ^(b)
Equity securities	\$2,373	\$1,751	\$ —	\$ —	\$ 622
Corporate debt securities	4,054	—	4,054	—	—
Short-term investment funds	363	279	84	—	—
Partnership interests	120	—	—	—	120
Hedge funds	226	—	—	—	226
Real estate limited partnerships	144	—	—	—	144
U.S. government securities	961	—	961	—	—
Guaranteed investment contracts	27	—	—	27	—
Governments bonds – foreign	30	—	30	—	—
Cash	28	28	—	—	—
Net pending transactions and other investments	(2)	(6)	4	—	—
Total assets^(a)	\$8,324	\$2,052	\$5,133	\$ 27	\$ 1,112

- (a) Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana, and Piedmont were allocated approximately 27%, 31%, 15%, 16%, 5%, 7%, and 4%, respectively, of the Duke Energy Master Retirement Trust and Piedmont's Pension assets at December 31, 2018. Accordingly, all amounts included in the table above are allocable to the Subsidiary Registrants using these percentages.
- (b) Certain investments that are measured at fair value using the net asset value per share practical expedient have not been categorized in the fair value hierarchy.

The following table provides a reconciliation of beginning and ending balances of Duke Energy Master Retirement Trust qualified pension and other post-retirement assets at fair value on a recurring basis where the determination of fair value includes significant unobservable inputs (Level 3).

(in millions)	2019	2018
Balance at January 1	\$ 27	\$ 28
Sales	(18)	(1)
Total gains and other, net	2	—
Transfer of Level 3 assets to other classifications	—	—
Balance at December 31	\$ 11	\$ 27

Other post-retirement assets

The following tables provide the fair value measurement amounts for VEBA trust assets.

(in millions)	December 31, 2019	
	Total Fair Value	Level 2
Cash and cash equivalents	\$ 9	\$ 9
Real estate	1	1
Equity securities	22	22
Debt securities	18	18
Total assets	\$ 50	\$ 50

(in millions)	December 31, 2018	
	Total Fair Value	Level 2
Cash and cash equivalents	\$ 3	\$ 3
Real estate	1	1
Equity securities	25	25
Debt securities	20	20
Total assets	\$ 49	\$ 49

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Combined Notes to Consolidated Financial Statements – (Continued)

EMPLOYEE SAVINGS PLANS

Retirement Savings Plan

Duke Energy or its affiliates sponsor, and the Subsidiary Registrants participate in, employee savings plans that cover substantially all U.S. employees. Most employees participate in a matching contribution formula where Duke Energy provides a matching contribution generally equal to 100% of employee before-tax and Roth 401(k) contributions of up to 6% of eligible pay per pay period. Dividends on Duke Energy shares held by the savings plans are charged

to retained earnings when declared and shares held in the plans are considered outstanding in the calculation of basic and diluted EPS.

For new and rehired employees who are not eligible to participate in Duke Energy's defined benefit plans, an additional employer contribution of 4% of eligible pay per pay period, which is subject to a three-year vesting schedule, is provided to the employee's savings plan account. Certain Piedmont employees whose participation in a prior Piedmont defined benefit plan (that was frozen as of December 31, 2017) are eligible for employer transition credit contributions of 3% to 5% of eligible pay per period, for each pay period during the three-year period ending December 31, 2020.

The following table includes pretax employer matching contributions made by Duke Energy and expensed by the Subsidiary Registrants.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Years ended December 31,								
2019	\$214	\$66	\$58	\$38	\$20	\$5	\$ 11	\$ 13
2018	213	68	58	40	19	4	10	12
2017	179	61	53	37	16	3	9	7

24. INCOME TAXES

Tax Act

On December 22, 2017, President Trump signed the Tax Act into law. Among other provisions, the Tax Act lowered the corporate federal income tax rate from 35% to 21%, limits interest deductions outside of regulated utility operations, requires the normalization of excess deferred taxes associated with property under the average rate assumption method as a prerequisite to qualifying for accelerated depreciation and repealed the federal manufacturing deduction. The Tax Act also repealed the corporate AMT and stipulates a refund of 50% of remaining AMT credit carryforwards (to the extent the credits exceed regular tax for the year) for tax years 2018, 2019, and 2020, with all remaining AMT credits to be refunded in tax year 2021.

On December 22, 2017, the SEC staff issued Staff Accounting Bulletin (SAB) 118, Income Tax Accounting Implications of the Tax Cuts and Jobs Act, which provides guidance on accounting for the Tax Act's impact. SAB 118 provides a measurement period, which in no case should extend beyond one year from the Tax Act enactment date, during which a company acting in good faith may complete the accounting for the impacts of the Tax Act under ASC Topic 740. In accordance with SAB 118, a company must reflect the income tax effects of the Tax Act in the reporting period in which the accounting under ASC Topic 740 is complete. To the extent that a company's accounting for certain income tax effects of the Tax Act is incomplete, a company can determine a reasonable estimate for those effects and record a provisional estimate in the financial statements in the first reporting period in which a reasonable estimate can be determined.

As of December 31, 2018, the accounting for the effects of the Tax Act was complete. During the year ended December 31, 2018, Duke Energy recorded the following measurement period adjustments in accordance with SAB 118:

- Additional tax expense of \$23 million related to the completion of the analysis of Duke Energy's existing regulatory liability related to deferred taxes;
- A \$10 million tax benefit for the remeasurement of deferred tax assets and deferred tax liabilities primarily related to the guidance on

bonus depreciation issued by the IRS in August 2018, affecting the computation of the Company's 2017 Federal income tax liability;

- Additional tax expense of \$7 million related to the portion of the deferred tax asset as of December 31, 2017, that represents nondeductible long-term incentives under the Tax Act's limitation on the deductibility of executive compensation; and
- During the fourth quarter of 2018, the Company released the \$76 million valuation allowance that it recorded in the first quarter of 2018 as a result of additional guidance published by the IRS that stated refundable AMT credits would not be subject to sequestration.
- The majority of Duke Energy's operations are regulated and it is expected that the Subsidiary Registrants will ultimately pass on the savings associated with the amount representing the remeasurement of deferred tax balances related to regulated operations to customers. For Duke Energy's regulated operations, where the reduction is expected to be returned to customers in future rates, the remeasurement has been deferred as a regulatory liability. During 2018, Duke Energy recorded an additional regulatory liability of \$83 million, representing the revaluation of those deferred tax balances. The Subsidiary Registrants continue to respond to requests from regulators in various jurisdictions to determine the timing and magnitude of savings they will pass on to customers.

In addition, during 2018, Duke Energy reclassified \$573 million of AMT credit carryforwards from noncurrent deferred tax liabilities to a current federal income tax receivable. In 2019, Duke Energy received a refund of \$573 million related to AMT credit carryforwards based on the filing of Duke Energy's 2018 income tax return in 2019 and reclassified \$286 million of AMT credits from noncurrent deferred tax liabilities to a current federal income tax receivable.

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Combined Notes to Consolidated Financial Statements – (Continued)

Income Tax Expense

Components of Income Tax Expense

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current income taxes								
Federal	\$ (299)	\$ 164	\$ (173)	\$ (36)	\$ (43)	\$ (41)	\$ (23)	\$ (92)
State	10	13	(7)	(3)	18	(1)	1	(1)
Foreign	2	—	—	—	—	—	—	—
Total current income taxes	(287)	177	(180)	(39)	(25)	(42)	(22)	(93)
Deferred income taxes								
Federal	855	175	422	220	153	77	128	133
State	(38)	(37)	17	(18)	27	5	28	3
Total deferred income taxes ^(a)	817	138	439	202	180	82	156	136
ITC amortization	(11)	(4)	(6)	(6)	—	—	—	—
Income tax expense from continuing operations	519	311	253	157	155	40	134	43
Tax benefit from discontinued operations	(2)	—	—	—	—	—	—	—
Total income tax expense included in Consolidated Statements of Operations	\$ 517	\$ 311	\$ 253	\$ 157	\$ 155	\$ 40	\$ 134	\$ 43

(a) Total deferred income taxes includes the generation of tax credit carryforwards of \$8 million at Duke Energy Carolinas. In addition, total deferred income taxes includes utilization of NOL carryforwards and tax credit carryforwards of \$243 million at Progress Energy, \$35 million at Duke Energy Progress, \$152 million at Duke Energy Florida, \$25 million at Duke Energy Ohio, \$60 million at Duke Energy Indiana, \$90 million at Piedmont and \$775 million at Duke Energy.

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current income taxes								
Federal	\$ (647)	\$ (8)	\$ (135)	\$ (71)	\$ (49)	\$ 20	\$ 29	\$ 67
State	(11)	6	(5)	(5)	(10)	(1)	3	1
Foreign	3	—	—	—	—	—	—	—
Total current income taxes	(655)	(2)	(140)	(76)	(59)	19	32	68
Deferred income taxes								
Federal	1,064	299	341	256	115	21	74	(36)
State	49	11	20	(17)	45	3	22	5
Total deferred income taxes ^{(a)/(b)}	1,113	310	361	239	160	24	96	(31)
ITC amortization	(10)	(5)	(3)	(3)	—	—	—	—
Income tax expense from continuing operations	448	303	218	160	101	43	128	37
Tax benefit from discontinued operations	(26)	—	—	—	—	—	—	—
Total income tax expense included in Consolidated Statements of Operations	\$ 422	\$ 303	\$ 218	\$ 160	\$ 101	\$ 43	\$ 128	\$ 37

(a) Includes benefits of NOL carryforwards and tax credit carryforwards of \$22 million at Duke Energy Carolinas, \$293 million at Progress Energy, \$59 million at Duke Energy Progress, \$219 million at Duke Energy Florida, \$17 million at Duke Energy Ohio, \$21 million at Duke Energy Indiana and \$39 million at Piedmont. In addition, total deferred income taxes includes utilization of NOL carryforwards and tax credit carryforwards of \$18 million at Duke Energy.

(b) For the year ended December 31, 2018, the Company has revised the December 31, 2017, estimates of the income tax effects of the Tax Act, in accordance with SAB 118. See the Statutory Rate Reconciliation section below for additional information on the Tax Act's impact on income tax expense.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

(in millions)	Year Ended December 31, 2017							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current income taxes								
Federal	\$ (247)	\$ 221	\$ (436)	\$ (95)	\$ (188)	\$ (37)	\$ 128	\$ (90)
State	4	20	(5)	2	(11)	2	21	(3)
Foreign	3	—	—	—	—	—	—	—
Total current income taxes	(240)	241	(441)	(93)	(199)	(35)	149	(93)
Deferred income taxes								
Federal	1,344	381	664	378	194	99	138	147
State	102	35	44	10	51	(4)	14	8
Total deferred income taxes ^{(a)(b)}	1,446	416	708	388	245	95	152	155
ITC amortization	(10)	(5)	(3)	(3)	—	(1)	—	—
Income tax expense from continuing operations	1,196	652	264	292	46	59	301	62
Tax benefit from discontinued operations	(6)	—	—	—	—	—	—	—
Total income tax expense included in Consolidated Statements of Operations	\$ 1,190	\$ 652	\$ 264	\$ 292	\$ 46	\$ 59	\$ 301	\$ 62

(a) Includes utilization of NOL carryforwards and tax credit carryforwards of \$428 million at Duke Energy, \$74 million at Progress Energy, \$36 million at Duke Energy Florida, \$17 million at Duke Energy Ohio, \$42 million at Duke Energy Indiana and \$79 million at Piedmont. In addition, total deferred income taxes includes benefits of NOL carryforwards and tax credit carryforwards of \$10 million at Duke Energy Carolinas and \$1 million at Duke Energy Progress.

(b) As a result of the Tax Act, Duke Energy's deferred tax assets and liabilities were revalued as of December 31, 2017. See the Statutory Rate Reconciliation section below for additional information on the Tax Act's impact on income tax expense.

Duke Energy Income from Continuing Operations before Income Taxes

(in millions)	Years Ended December 31,		
	2019	2018	2017
Domestic ^(a)	\$ 4,053	\$ 3,018	\$ 4,207
Foreign	44	55	59
Income from continuing operations before income taxes	\$ 4,097	\$ 3,073	\$ 4,266

(a) Includes a \$16 million expense in 2017 related to the Tax Act impact on equity earnings included within Equity in earnings of unconsolidated affiliates on the Consolidated Statement of Operations.

Statutory Rate Reconciliation

The following tables present a reconciliation of income tax expense at the U.S. federal statutory tax rate to the actual tax expense from continuing operations.

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Income tax expense, computed at the statutory rate of 21%	\$ 860	\$ 360	\$ 332	\$ 202	\$ 178	\$ 59	\$ 120	\$ 51
State income tax, net of federal income tax effect	(22)	(19)	8	(17)	35	3	22	2
Amortization of excess deferred income tax	(121)	(29)	(64)	(10)	(54)	(12)	(6)	(10)
AFUDC equity income	(52)	(9)	(14)	(13)	(1)	(3)	(3)	—
AFUDC equity depreciation	34	19	10	5	5	1	4	—
Renewable energy PTCs	(120)	—	—	—	—	—	—	—
Other tax credits	(23)	(11)	(9)	(7)	(2)	(1)	(1)	(1)
Tax true up	(64)	(9)	(8)	(3)	(5)	(7)	(1)	—
Other items, net	27	9	(2)	—	(1)	—	(1)	1
Income tax expense from continuing operations	\$ 519	\$ 311	\$ 253	\$ 157	\$ 155	\$ 40	\$ 134	\$ 43
Effective tax rate	12.7%	18.1%	16.0%	16.3%	18.3%	14.3%	23.5%	17.6%

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

Year Ended December 31, 2018								
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Income tax expense, computed at the statutory rate of 21%	\$ 645	\$ 288	\$ 263	\$ 174	\$ 137	\$ 46	\$ 109	\$ 35
State income tax, net of federal income tax effect	30	14	13	(17)	28	2	20	4
Amortization of excess deferred income tax	(61)	—	(55)	(1)	(54)	(3)	(2)	—
AFUDC equity income	(42)	(15)	(22)	(12)	(10)	(2)	(2)	—
AFUDC equity depreciation	31	18	9	5	4	1	4	—
Renewable energy PTCs	(129)	—	—	—	—	—	—	—
Other tax credits	(28)	(7)	(13)	(5)	(8)	(1)	(1)	(3)
Tax Act ^(a)	20	1	25	19	—	2	—	—
Other items, net	(18)	4	(2)	(3)	4	(2)	—	1
Income tax expense from continuing operations	\$ 448	\$ 303	\$ 218	\$ 160	\$ 101	\$ 43	\$ 128	\$ 37
Effective tax rate	14.6%	22.1%	17.4%	19.3%	15.4%	19.6%	24.6%	22.3%

(a) For the year ended December 31, 2018, the Company revised the December 31, 2017 estimates of the income tax effects of the Tax Act, in accordance with SAB 118. Amounts primarily include but are not limited to items that are excluded for ratemaking purposes related certain wholesale fixed rate contracts, remeasurement of nonregulated net deferred tax liabilities, Federal NOLs, and valuation allowance on foreign tax credits.

Year Ended December 31, 2017								
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Income tax expense, computed at the statutory rate of 35%	\$ 1,493	\$ 653	\$ 536	\$ 353	\$ 265	\$ 88	\$ 229	\$ 70
State income tax, net of federal income tax effect	69	36	25	8	26	(1)	23	3
AFUDC equity income	(81)	(37)	(32)	(17)	(16)	(4)	(8)	—
Renewable energy PTCs	(132)	—	—	—	—	—	—	—
Tax Act ^(a)	(112)	15	(246)	(40)	(226)	(23)	55	(12)
Tax true up	(52)	(24)	(19)	(13)	(7)	(5)	(6)	—
Other items, net	11	9	—	1	4	4	8	1
Income tax expense from continuing operations	\$ 1,196	\$ 652	\$ 264	\$ 292	\$ 46	\$ 59	\$ 301	\$ 62
Effective tax rate	28.0%	34.9%	17.2%	29.0%	6.1%	23.4%	46.0%	30.8%

(a) Amounts primarily include but are not limited to items that are excluded for ratemaking purposes related to abandoned or impaired assets, certain wholesale fixed rate contracts, remeasurement of nonregulated net deferred tax liabilities, Federal NOLs, and valuation allowance on foreign tax credits.

Valuation allowances have been established for certain state NOL carryforwards and state income tax credits that reduce deferred tax assets to an amount that will be realized on a more-likely-than-not basis. The net change in the total valuation allowance is included in State income tax, net of federal income tax effect, in the above tables.

Valuation allowances have been established for foreign tax credits that reduce deferred tax assets to an amount that will be realized on a more-likely-than-not basis. The net change in the total valuation allowance is included in Tax Act in the above tables.

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Combined Notes to Consolidated Financial Statements – (Continued)

DEFERRED TAXES

Net Deferred Income Tax Liability Components

(in millions)	December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Deferred credits and other liabilities	\$ 125	\$ 24	\$ 25	\$ 49	\$ —	\$ 14	\$ 5	\$ 22
Lease obligations	462	72	193	92	102	5	17	6
Pension, post-retirement and other employee benefits	303	(5)	88	38	44	17	27	(3)
Progress Energy merger purchase accounting adjustments ^(a)	389	—	—	—	—	—	—	—
Tax credits and NOL carryforwards	3,925	262	486	176	253	16	176	19
Regulatory liabilities and deferred credits	—	—	—	—	—	36	52	42
Investments and other assets	—	—	—	—	—	10	—	2
Other	97	5	8	3	2	8	1	6
Valuation allowance	(587)	—	—	—	—	—	—	—
Total deferred income tax assets	4,714	358	800	358	401	106	278	94
Investments and other assets	(1,664)	(981)	(577)	(390)	(190)	—	(12)	—
Accelerated depreciation rates	(10,813)	(3,254)	(3,798)	(1,918)	(1,913)	(1,028)	(1,416)	(802)
Regulatory assets and deferred debits, net	(1,115)	(44)	(887)	(438)	(477)	—	—	—
Total deferred income tax liabilities	(13,592)	(4,279)	(5,262)	(2,746)	(2,580)	(1,028)	(1,428)	(802)
Net deferred income tax liabilities	\$ (8,878)	\$ (3,921)	\$ (4,462)	\$ (2,388)	\$ (2,179)	\$ (922)	\$ (1,150)	\$ (708)

(a) Primarily related to finance lease obligations and debt fair value adjustments.

The following table presents the expiration of tax credits and NOL carryforwards.

(in millions)	December 31, 2019	
	Amount	Expiration Year
General Business Credits	\$ 1,821	2024 – 2039
AMT credits	286	Refundable by 2021
Federal NOL carryforwards ^{(a)(f)}	169	2024 – Indefinite
Capital loss carryforward ^(e)	87	2024
State carryforwards and credits ^{(b)(f)}	303	2020 – Indefinite
Foreign NOL carryforwards ^(c)	12	2027 – 2037
Foreign Tax Credits ^(d)	1,237	2024 – 2027
Charitable contribution carryforwards	10	2020 – 2024
Total tax credits and NOL carryforwards	\$ 3,925	

(a) A valuation allowance of \$4 million has been recorded on the Federal NOL carryforwards, as presented in the Net Deferred Income Tax Liability Components table.

(b) A valuation allowance of \$97 million has been recorded on the state NOL and credit carryforwards, as presented in the Net Deferred Income Tax Liability Components table.

(c) A valuation allowance of \$12 million has been recorded on the foreign NOL carryforwards, as presented in the Net Deferred Income Tax Liability Components table.

(d) A valuation allowance of \$387 million has been recorded on the foreign tax credits, as presented in the Net Deferred Income Tax Liability Components table.

(e) A valuation allowance of \$87 million has been recorded on the Federal capital loss carryforward, as presented in the Net Deferred Income Tax Liability Components table.

(f) Indefinite carryforward for Federal NOLs, and NOLs for states that have adopted the Tax Act's NOL provisions, generated in tax years beginning after December 31, 2017.

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Combined Notes to Consolidated Financial Statements – (Continued)

	December 31, 2018							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Deferred credits and other liabilities	\$ 164	\$ 64	\$ 35	\$ 53	\$ —	\$ 17	\$ 6	\$ 17
Finance lease obligations	60	26	—	—	—	—	2	—
Pension, post-retirement and other employee benefits	347	24	110	47	58	16	24	(1)
Progress Energy merger purchase accounting adjustments ^(a)	483	—	—	—	—	—	—	—
Tax credits and NOL carryforwards	4,580	257	693	215	363	42	237	110
Regulatory liabilities and deferred credits	—	—	—	—	—	56	—	48
Investments and other assets	—	—	—	—	—	18	—	16
Other	25	6	5	5	—	1	(1)	—
Valuation allowance	(484)	—	—	—	—	—	—	—
Total deferred income tax assets	5,175	377	843	320	421	150	268	190
Investments and other assets	(1,317)	(795)	(430)	(272)	(163)	—	(5)	—
Accelerated depreciation rates	(10,124)	(3,207)	(3,369)	(1,735)	(1,670)	(967)	(1,081)	(733)
Regulatory assets and deferred debits, net	(1,540)	(64)	(985)	(432)	(574)	—	(191)	—
Other	—	—	—	—	—	—	—	(8)
Total deferred income tax liabilities	(12,981)	(4,066)	(4,784)	(2,439)	(2,407)	(967)	(1,277)	(741)
Net deferred income tax liabilities	\$ (7,806)	\$ (3,689)	\$ (3,941)	\$ (2,119)	\$ (1,986)	\$ (817)	\$ (1,009)	\$ (551)

(a) Primarily related to finance lease obligations and debt fair value adjustments.

UNRECOGNIZED TAX BENEFITS

The following tables present changes to unrecognized tax benefits.

	Year Ended December 31, 2019							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unrecognized tax benefits – January 1	\$ 24	\$ 6	\$ 9	\$ 6	\$ 3	\$ 1	\$ 1	\$ 4
Unrecognized tax benefit increases	105	2	1	1	—	—	—	—
Gross decreases – tax positions in prior periods	(3)	—	(1)	(1)	—	—	—	—
Total changes	102	2	—	—	—	—	—	—
Unrecognized tax benefits – December 31	\$ 126	\$ 8	\$ 9	\$ 6	\$ 3	\$ 1	\$ 1	\$ 4

	Year Ended December 31, 2018							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unrecognized tax benefits – January 1	\$ 25	\$ 5	\$ 5	\$ 5	\$ 5	\$ 1	\$ 1	\$ 3
Unrecognized tax benefits increases (decreases)	—	—	—	—	—	—	—	—
Gross decreases – tax positions in prior periods	(2)	(1)	—	—	(4)	—	—	—
Gross increases – tax positions in prior periods	7	2	4	1	2	—	—	1
Decreases due to settlements	(6)	—	—	—	—	—	—	—
Total changes	(1)	1	4	1	(2)	—	—	1
Unrecognized tax benefits – December 31	\$ 24	\$ 6	\$ 9	\$ 6	\$ 3	\$ 1	\$ 1	\$ 4

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

	Year Ended December 31, 2017							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unrecognized tax benefits – January 1	\$ 17	\$ 1	\$ 2	\$ 2	\$ 4	\$ 4	\$ —	\$ —
Unrecognized tax benefits increases (decreases)								
Gross increases – tax positions in prior periods	12	4	3	3	1	1	1	3
Gross decreases – tax positions in prior periods	(4)	—	—	—	—	(4)	—	—
Total changes	8	4	3	3	1	(3)	1	3
Unrecognized tax benefits – December 31	\$ 25	\$ 5	\$ 5	\$ 5	\$ 5	\$ 1	\$ 1	\$ 3

The following table includes additional information regarding the Duke Energy Registrants' unrecognized tax benefits at December 31, 2019. It is reasonably possible that Duke Energy will reflect a \$3 million decrease in unrecognized tax benefits within the next 12 months.

	December 31, 2019							
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Amount that if recognized, would affect the effective tax rate or regulatory liability ^(a)	\$ 122	\$ 8	\$ 9	\$ 6	\$ 3	\$ 1	\$ 1	\$ 4

(a) The Duke Energy Registrants are unable to estimate the specific amounts that would affect the effective tax rate versus the regulatory liability.

OTHER TAX MATTERS

The following tables include interest recognized in the Consolidated Statements of Operations and the Consolidated Balance Sheets.

	Year Ended December 31, 2019			
(in millions)	Duke Energy	Progress Energy	Duke Energy Progress	Piedmont
Net interest income recognized related to income taxes	\$ 16	\$ 1	\$ 1	\$ —
Interest receivable related to income taxes	1	—	—	—
Interest payable related to income taxes	1	—	—	1

	Year Ended December 31, 2018		
(in millions)	Duke Energy	Progress Energy	Duke Energy Progress
Net interest income recognized related to income taxes	\$ 2	\$ —	\$ —
Interest payable related to income taxes	3	1	1

	Year Ended December 31, 2017				
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida
Net interest income recognized related to income taxes	\$ —	\$ —	\$ 1	\$ —	\$ 1
Net interest expense recognized related to income taxes	—	2	—	—	—
Interest payable related to income taxes	5	25	1	1	—

Duke Energy and its subsidiaries are no longer subject to U.S. federal examination for years before 2016. With few exceptions, Duke Energy and its subsidiaries are no longer subject to state, local or non-U.S. income tax examinations by tax authorities for years before 2016.

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

25. OTHER INCOME AND EXPENSES, NET

The components of Other income and expenses, net on the Consolidated Statements of Operations are as follows.

Year Ended December 31, 2019								
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Interest income	\$ 31	\$ 1	\$ 11	\$ —	\$ 11	\$ 10	\$ 10	\$ 1
AFUDC equity	139	42	66	60	6	13	18	—
Post in-service equity returns	29	20	7	7	—	1	—	—
Nonoperating income, other	231	88	57	33	31	—	13	19
Other income and expense, net	\$430	\$151	\$ 141	\$100	\$ 48	\$ 24	\$ 41	\$ 20

Year Ended December 31, 2018								
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Interest income	\$ 20	\$ 1	\$ 18	\$ 1	\$ 18	\$ 7	\$ 9	\$ 1
AFUDC equity	221	73	104	57	47	11	32	—
Post in-service equity returns	15	9	5	5	—	1	—	—
Nonoperating income, other	143	70	38	24	21	4	4	13
Other income and expense, net	\$399	\$153	\$ 165	\$ 87	\$ 86	\$ 23	\$ 45	\$ 14

Year Ended December 31, 2017								
(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Interest income	\$ 13	\$ 2	\$ 6	\$ 2	\$ 5	\$ 6	\$ 8	\$ —
AFUDC equity	237	106	92	47	45	11	28	—
Post in-service equity returns	40	28	12	12	—	—	—	—
Nonoperating income, other	218	63	99	54	46	6	11	(11)
Other income and expense, net	\$508	\$199	\$ 209	\$115	\$ 96	\$ 23	\$ 47	\$ (11)

26. SUBSEQUENT EVENTS

For information on subsequent events related to the adoption of the new credit losses accounting standard, regulatory matters and debt and credit facilities, see Notes 1, 4 and 7, respectively.

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Combined Notes to Consolidated Financial Statements – (Continued)

27. QUARTERLY FINANCIAL DATA (UNAUDITED)

DUKE ENERGY

Quarterly EPS amounts may not sum to the full-year total due to changes in the weighted average number of common shares outstanding and rounding.

(in millions, except per share data)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2019					
Operating revenues	\$6,163	\$5,873	\$6,940	\$6,103	\$25,079
Operating income	1,373	1,298	1,929	1,109	5,709
Income from continuing operations	893	748	1,323	614	3,578
Loss from discontinued operations, net of tax	—	—	—	(7)	(7)
Net income	893	748	1,323	607	3,571
Net income available to Duke Energy Corporation common stockholders	900	820	1,327	660	3,707
Earnings per share:					
Income from continuing operations available to Duke Energy Corporation common stockholders					
Basic and diluted	\$ 1.24	\$ 1.12	\$ 1.82	\$ 0.89	\$ 5.07
Loss from discontinued operations attributable to Duke Energy Corporation common stockholders					
Basic and diluted	\$ —	\$ —	\$ —	\$ (0.01)	\$ (0.01)
Net income available to Duke Energy Corporation common stockholders					
Basic and diluted	\$ 1.24	\$ 1.12	\$ 1.82	\$ 0.88	\$ 5.06
2018					
Operating revenues	\$6,135	\$5,643	\$6,628	\$6,115	\$24,521
Operating income	1,256	979	1,579	871	4,685
Income from continuing operations	622	507	1,062	434	2,625
(Loss) Income from discontinued operations, net of tax	—	(5)	4	20	19
Net income	622	502	1,066	454	2,644
Net income attributable to Duke Energy Corporation	620	500	1,082	464	2,666
Earnings per share:					
Income from continuing operations attributable to Duke Energy Corporation common stockholders					
Basic and diluted	\$ 0.88	\$ 0.72	\$ 1.51	\$ 0.62	\$ 3.73
(Loss) Income from discontinued operations attributable to Duke Energy Corporation common stockholders					
Basic and diluted	\$ —	\$ (0.01)	\$ —	\$ 0.03	\$ 0.03
Net income attributable to Duke Energy Corporation common stockholders					
Basic and diluted	\$ 0.88	\$ 0.71	\$ 1.51	\$ 0.65	\$ 3.76

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2019					
Impairment Charges (see Notes 4 and 13)	\$ —	\$ —	\$ 25	\$ (14)	\$ 11
Total	\$ —	\$ —	\$ 25	\$ (14)	\$ 11
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (17)	\$ (20)	\$ (16)	\$ (31)	\$ (84)
Regulatory and Legislative Impacts (see Note 4)	(86)	(179)	—	—	(265)
Sale of Retired Plant (see Note 3)	(107)	—	—	—	(107)
Impairment Charges (see Notes 4, 12 and 13)	(55)	—	(93)	(60)	(208)
Severance Charges (see Note 21)	—	—	—	(187)	(187)
Impacts of the Tax Act (see Note 24)	(76)	—	3	53	(20)
Total	\$ (341)	\$ (199)	\$ (106)	\$ (225)	\$ (871)

DUKE ENERGY CAROLINAS

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2019					
Operating revenues	\$ 1,744	\$ 1,713	\$ 2,162	\$ 1,776	\$ 7,395
Operating income	435	451	793	347	2,026
Net income	293	301	590	219	1,403
2018					
Operating revenues	\$ 1,763	\$ 1,672	\$ 2,090	\$ 1,775	\$ 7,300
Operating income	482	224	713	241	1,660
Net income	323	117	496	135	1,071

The following table includes unusual or infrequently occurring items in each quarter during 2018. There were no unusual or infrequently occurring items for the year ended December 31, 2019. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (4)	\$ (2)	\$ (2)	\$ (1)	\$ (9)
Regulatory and Legislative Impacts (see Note 4)	(19)	(179)	—	—	(198)
Severance Charges (see Note 21)	—	—	—	(102)	(102)
Impacts of the Tax Act (see Note 24)	—	—	(1)	—	(1)
Total	\$ (23)	\$ (181)	\$ (3)	\$ (103)	\$ (310)

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

PROGRESS ENERGY

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2019					
Operating revenues	\$ 2,572	\$ 2,744	\$ 3,242	\$ 2,644	\$ 11,202
Operating income	488	580	786	447	2,301
Net income	248	329	521	229	1,327
Net income attributable to Parent	249	328	521	229	1,327
2018					
Operating revenues	\$ 2,576	\$ 2,498	\$ 3,045	\$ 2,609	\$ 10,728
Operating income	447	484	663	334	1,928
Net income	237	267	406	123	1,033
Net income attributable to Parent	235	265	404	123	1,027

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2019					
Impairment Charges (see Note 4)	\$ —	\$ —	\$ 25	\$ 11	\$ 36
Total	\$ —	\$ —	\$ 25	\$ 11	\$ 36
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (4)	\$ (3)	\$ (1)	\$ (2)	\$ (10)
Regulatory and Legislative Impacts (see Note 4)	(67)	—	—	—	(67)
Impairment Charges (see Note 4)	—	—	—	(60)	(60)
Severance Charges (see Note 21)	—	—	—	(69)	(69)
Impacts of the Tax Act (see Note 24)	(1)	—	(5)	(19)	(25)
Total	\$(72)	\$ (3)	\$ (6)	\$(150)	\$(231)

DUKE ENERGY PROGRESS

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2019					
Operating revenues	\$ 1,484	\$ 1,387	\$ 1,688	\$ 1,398	\$ 5,957
Operating income	300	259	373	236	1,168
Net income	203	169	278	155	805
2018					
Operating revenues	\$ 1,460	\$ 1,291	\$ 1,582	\$ 1,366	\$ 5,699
Operating income	269	233	330	227	1,059
Net income	177	139	216	135	667

The following table includes unusual or infrequently occurring items in each quarter during 2018. There were no unusual or infrequently occurring items for the year ended December 31, 2019. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (2)	\$ (2)	\$ (1)	\$ (1)	\$ (6)
Regulatory and Legislative Impacts (see Note 4)	(67)	—	—	—	(67)
Severance Charges (see Note 21)	—	—	—	(52)	(52)
Impacts of the Tax Act (see Note 24)	—	—	(4)	(15)	(19)
Total	\$ (69)	\$ (2)	\$ (5)	\$ (68)	\$ (144)

DUKE ENERGY FLORIDA

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2019					
Operating revenues	\$ 1,086	\$ 1,353	\$ 1,548	\$ 1,244	\$ 5,231
Operating income	188	321	413	205	1,127
Net income	96	201	289	106	692
2018					
Operating revenues	\$ 1,115	\$ 1,203	\$ 1,462	\$ 1,241	\$ 5,021
Operating income	173	245	331	107	856
Net income	103	168	243	40	554

The following table includes unusual or infrequently occurring items in each quarter during the two most recently completed fiscal years. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2019					
Impairment Charges (see Note 4)	\$ —	\$ —	\$ 25	\$ 11	\$ 36
Total	\$ —	\$ —	\$ 25	\$ 11	\$ 36
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (2)	\$ (1)	\$ —	\$ (1)	\$ (4)
Impairment Charges (see Note 4)	—	—	—	(60)	(60)
Severance Charges (see Note 21)	—	—	—	(17)	(17)
Impacts of the Tax Act (see Note 24)	—	—	(2)	2	—
Total	\$ (2)	\$ (1)	\$ (2)	\$ (76)	\$ (81)

PART II

DUKE ENERGY CORPORATION • DUKE ENERGY CAROLINAS, LLC • PROGRESS ENERGY, INC. • DUKE ENERGY PROGRESS, LLC •
DUKE ENERGY FLORIDA, LLC • DUKE ENERGY OHIO, INC. • DUKE ENERGY INDIANA, LLC • PIEDMONT NATURAL GAS COMPANY, INC.

Combined Notes to Consolidated Financial Statements – (Continued)

DUKE ENERGY OHIO

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2019					
Operating revenues	\$ 531	\$ 433	\$ 489	\$ 487	\$ 1,940
Operating income	104	74	108	78	364
Net income	69	47	74	48	238
2018					
Operating revenues	\$ 524	\$ 459	\$ 469	\$ 505	\$ 1,957
Operating (loss) income	(21)	77	139	93	288
Net (loss) income	(25)	46	100	55	176

The following table includes unusual or infrequently occurring items in each quarter during 2018. There were no unusual or infrequently occurring items for the year ended December 31, 2019. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (3)	\$ (5)	\$ —	\$ (6)	\$ (14)
Sale of Retired Plant (see Note 3)	(107)	—	—	—	(107)
Severance Charges (see Note 21)	—	—	—	(6)	(6)
Impacts of the Tax Act (see Note 24)	—	—	—	(2)	(2)
Total	\$ (110)	\$ (5)	\$ —	\$ (14)	\$ (129)

DUKE ENERGY INDIANA

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2019					
Operating revenues	\$ 768	\$ 714	\$ 807	\$ 715	\$ 3,004
Operating income	169	148	235	133	685
Net income	110	97	156	73	436
2018					
Operating revenues	\$ 731	\$ 738	\$ 819	\$ 771	\$ 3,059
Operating income	168	169	173	133	643
Net income	100	98	119	76	393

The following table includes unusual or infrequently occurring items in each quarter during 2018. There were no unusual or infrequently occurring items for the year ended December 31, 2019. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ —	\$ —	\$ (2)	\$ —	\$ (2)
Severance Charges (see Note 21)	—	—	—	(7)	(7)
Total	\$ —	\$ —	\$ (2)	\$ (7)	\$ (9)

PIEDMONT

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2019					
Operating revenues	\$ 579	\$ 209	\$ 168	\$ 425	\$ 1,381
Operating income (loss)	172	6	(13)	139	304
Net income (loss)	122	(7)	(18)	105	202
2018					
Operating revenues	\$ 553	\$ 215	\$ 172	\$ 435	\$ 1,375
Operating income (loss)	161	5	(19)	79	226
Net income (loss)	110	(8)	(21)	48	129

The following table includes unusual or infrequently occurring items in each quarter during 2018. There were no unusual or infrequently occurring items for the year ended December 31, 2019. All amounts discussed below are pretax.

(in millions)	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
2018					
Costs to Achieve Piedmont Merger (see Note 2)	\$ (6)	\$ (9)	\$ (11)	\$ (22)	\$ (48)
Severance Charges (see Note 21)	—	—	—	(2)	(2)
Total	\$ (6)	\$ (9)	\$ (11)	\$ (24)	\$ (50)

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PART II

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

ITEM 9A. CONTROLS AND PROCEDURES

Disclosure Controls and Procedures

Disclosure controls and procedures are controls and other procedures that are designed to ensure that information required to be disclosed by the Duke Energy Registrants in the reports they file or submit under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified by the SEC rules and forms.

Disclosure controls and procedures include, without limitation, controls and procedures designed to provide reasonable assurance that information required to be disclosed by the Duke Energy Registrants in the reports they file or submit under the Exchange Act is accumulated and communicated to management, including the Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.

Under the supervision and with the participation of management, including the Chief Executive Officer and Chief Financial Officer, the Duke Energy Registrants have evaluated the effectiveness of their disclosure controls and procedures (as such term is defined in Rule 13a-15(e) and 15d-15(e) under the Exchange Act) as of December 31, 2019, and, based upon this evaluation, the Chief Executive Officer and Chief Financial Officer have concluded that these controls and procedures are effective in providing reasonable assurance of compliance.

Changes in Internal Control Over Financial Reporting

Under the supervision and with the participation of management, including the Chief Executive Officer and Chief Financial Officer, the Duke Energy Registrants have evaluated changes in internal control over financial reporting (as such term is defined in Rules 13a-15 and 15d-15 under the Exchange Act) that occurred during the fiscal quarter ended December 31, 2019, and have concluded no change has materially affected, or is reasonably likely to materially affect, internal control over financial reporting.

Management's Annual Report on Internal Control Over Financial Reporting

The Duke Energy Registrants' management is responsible for establishing and maintaining an adequate system of internal control over financial reporting, as such term is defined in Exchange Act Rules 13a-15(f) and 15d-15(f). The Duke Energy Registrants' internal control system was designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes, in accordance with GAAP. Due to inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness of the internal control over financial reporting to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with policies and procedures may deteriorate.

The Duke Energy Registrants' management, including their Chief Executive Officer and Chief Financial Officer, has conducted an evaluation of the effectiveness of their internal control over financial reporting as of December 31, 2019, based on the framework in the Internal Control – Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on that evaluation, management concluded that its internal controls over financial reporting were effective as of December 31, 2019.

Deloitte & Touche LLP, Duke Energy's independent registered public accounting firm, has issued an attestation report on the effectiveness of Duke Energy's internal control over financial reporting, which is included herein. This report is not applicable to the Subsidiary Registrants as these companies are not accelerated or large accelerated filers.

PART II

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholders and the Board of Directors of
Duke Energy Corporation

Opinion on Internal Control over Financial Reporting

We have audited the internal control over financial reporting of Duke Energy Corporation and subsidiaries (the "Company") as of December 31, 2019, based on criteria established in *Internal Control - Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2019, based on criteria established in *Internal Control - Integrated Framework (2013)* issued by COSO.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated financial statements as of and for the year ended December 31, 2019, of the Company and our report dated February 20, 2020, expressed an unqualified opinion on those financial statements.

Basis for Opinion

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying *Management's Annual Report on Internal Control Over Financial Reporting*. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 20, 2020

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PART III

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

Information regarding Duke Energy's Executive Officers is set forth in Part I, Item 1, "Business – Executive Officers of the Registrants," in this Annual Report on Form 10-K. Duke Energy will provide information that is responsive to the remainder of this Item 10 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 10 by reference.

ITEM 11. EXECUTIVE COMPENSATION

Duke Energy will provide information that is responsive to this Item 11 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 11 by reference.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

Equity Compensation Plan Information

The following table shows information as of December 31, 2019, about securities to be issued upon exercise of outstanding options, warrants and rights under Duke Energy's equity compensation plans, along with the weighted average exercise price of the outstanding options, warrants and rights and the number of securities remaining available for future issuance under the plans.

Plan Category	Number of securities to be issued upon exercise of outstanding options, warrants and rights (a)	Weighted average exercise price of outstanding options, warrants and rights (b) ⁽¹⁾	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a)) (c)
Equity compensation plans approved by security holders	3,528,022 ⁽²⁾	n/a	5,248,541 ⁽³⁾
Equity compensation plans not approved by security holders	180,188 ⁽⁴⁾	n/a	n/a ⁽⁵⁾
Total	3,708,210	n/a	5,248,541

(1) As of December 31, 2019, no options were outstanding under equity compensation plans.

(2) Includes RSUs and performance shares (assuming the maximum payout level) granted under the Duke Energy Corporation 2015 Long-Term Incentive Plan, as well as shares that could be payable with respect to certain compensation deferred under the Duke Energy Corporation Executive Savings Plan (Executive Savings Plan) or the Directors' Savings Plan.

(3) Includes shares remaining available for issuance pursuant to stock awards under the Duke Energy Corporation 2015 Long-Term Incentive Plan.

(4) Includes shares that could be payable with respect to certain compensation deferred under the Executive Savings Plan or the Duke Energy Corporation Directors' Savings Plan (Directors' Savings Plan), each of which is a non-qualified deferred compensation plan described in more detail below.

(5) The number of shares remaining available for future issuance under equity compensation plans not approved by security holders cannot be determined because it is based on the amount of future voluntary deferrals, if any, under the Executive Savings Plan and the Directors' Savings Plan.

Under the Executive Savings Plan, participants can elect to defer a portion of their base salary and short-term incentive compensation. Participants also receive a company matching contribution in excess of the contribution limits prescribed by the Internal Revenue Code under the Duke Energy Retirement Savings Plan, which is the 401(k) plan in which employees are generally eligible to participate. In general, payments are made following termination of employment or death in the form of a lump sum or installments, as selected by the participant. Participants may direct the deemed investment of base salary deferrals, short-term incentive compensation deferrals and matching contributions among investment options available under the Duke Energy Retirement Savings Plan, including the Duke Energy Common Stock Fund. Participants may change their investment elections on a daily basis. Deferrals of equity awards are credited with earnings and losses based on the performance

of the Duke Energy Common Stock Fund. The benefits payable under the plan are unfunded and subject to the claims of Duke Energy's creditors.

Under the Directors' Savings Plan, outside directors may elect to defer all or a portion of their annual compensation, generally consisting of retainers. Deferred amounts are credited to an unfunded account, the balance of which is adjusted for the performance of phantom investment options, including the Duke Energy Common Stock Fund, as elected by the director, and generally are paid when the director terminates his or her service from the Board of Directors.

Duke Energy will provide additional information that is responsive to this Item 12 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 12 by reference.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE

Duke Energy will provide information that is responsive to this Item 13 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 13 by reference.

PART III

ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

Deloitte provided professional services to the Duke Energy Registrants. The following tables present the Deloitte fees for services rendered to the Duke Energy Registrants during 2019 and 2018.

(in millions)	Year Ended December 31, 2019						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana Piedmont
Types of Fees							
Audit Fees ^(a)	\$ 13.5	\$ 4.6	\$ 5.3	\$ 3.1	\$ 2.2	\$ 0.9	\$ 1.4 \$ 0.8
Audit-Related Fees ^(b)	0.6	0.1	0.2	0.1	0.1	0.2	— —
Tax Fees ^(c)	0.2	0.1	0.1	—	—	—	— —
Total Fees	\$ 14.3	\$ 4.8	\$ 5.6	\$ 3.2	\$ 2.3	\$ 1.1	\$ 1.4 \$ 0.8

(in millions)	Year Ended December 31, 2018						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana Piedmont
Types of Fees							
Audit Fees ^(a)	\$ 14.0	\$ 5.0	\$ 5.5	\$ 3.3	\$ 2.2	\$ 0.9	\$ 1.4 \$ 0.8
Audit-Related Fees ^(b)	0.4	—	0.1	—	0.1	—	— —
Tax Fees ^(c)	0.6	0.2	0.2	0.1	0.1	—	0.1 0.1
Total Fees	\$ 15.0	\$ 5.2	\$ 5.8	\$ 3.4	\$ 2.4	\$ 0.9	\$ 1.5 \$ 0.9

- (a) Audit Fees are fees billed, or expected to be billed, by Deloitte for professional services for the financial statement audits, audit of the Duke Energy Registrants' financial statements included in the Annual Report on Form 10-K, reviews of financial statements included in Quarterly Reports on Form 10-Q, and services associated with securities filings such as comfort letters and consents.
- (b) Audit-Related Fees are fees billed, or expected to be billed, by Deloitte for assurance and related services that are reasonably related to the performance of an audit or review of financial statements, including statutory reporting requirements.
- (c) Tax Fees are fees billed by Deloitte for tax return assistance and preparation, tax examination assistance and professional services related to tax planning and tax strategy.

To safeguard the continued independence of the independent auditor, the Audit Committee of Duke Energy adopted a policy that all services provided by the independent auditor require preapproval by the Audit Committee. Pursuant to the policy, certain audit services, audit-related services, tax services and other services have been specifically preapproved up to fee limits. In the event

the cost of any of these services may exceed the fee limits, the Audit Committee must specifically approve the service. All services performed in 2019 and 2018 by the independent accountant were approved by the Audit Committee pursuant to the preapproval policy.

PART IV

ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

(a) Consolidated Financial Statements, Supplemental Financial Data and Supplemental Schedules included in Part II of this Annual Report are as follows:

Duke Energy Corporation

Consolidated Financial Statements
Consolidated Statements of Operations for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Statements of Comprehensive Income for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Balance Sheets as of December 31, 2019, and 2018
Consolidated Statements of Cash Flows for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2019, 2018 and 2017
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 27 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Carolinas, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Balance Sheets as of December 31, 2019, and 2018
Consolidated Statements of Cash Flows for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2019, 2018 and 2017
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All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Progress Energy, Inc.

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Balance Sheets as of December 31, 2019, and 2018
Consolidated Statements of Cash Flows for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2019, 2018 and 2017
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Duke Energy Progress, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Balance Sheets as of December 31, 2019, and 2018
Consolidated Statements of Cash Flows for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2019, 2018 and 2017
Notes to the Consolidated Financial Statements
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Duke Energy Florida, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Balance Sheets as of December 31, 2019, and 2018
Consolidated Statements of Cash Flows for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2019, 2018 and 2017
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 27 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

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PART IV

Duke Energy Ohio, Inc.

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Balance Sheets as of December 31, 2019, and 2018
Consolidated Statements of Cash Flows for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2019, 2018 and 2017
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 27 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Indiana, LLC

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Balance Sheets as of December 31, 2019, and 2018
Consolidated Statements of Cash Flows for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2019, 2018 and 2017
Notes to the Consolidated Financial Statements
Quarterly Financial Data, (unaudited, included in Note 27 to the Consolidated Financial Statements)
Report of Independent Registered Public Accounting Firm
All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Piedmont Natural Gas Company, Inc.

Consolidated Financial Statements
Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Balance Sheets as of December 31, 2019, and 2018
Consolidated Statements of Cash Flows for the Years Ended December 31, 2019, 2018 and 2017
Consolidated Statements of Changes in Equity for the Years Ended December 31, 2019, 2018 and 2017
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PART IV

EXHIBIT INDEX

Exhibits filed herewithin are designated by an asterisk (*). All exhibits not so designated are incorporated by reference to a prior filing, as indicated. Items constituting management contracts or compensatory plans or arrangements are designated by a double asterisk (**). The Company agrees to furnish upon request to the Commission a copy of any omitted schedules or exhibits upon request on all items designated by a triple asterisk (***).

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
2.1	Agreement and Plan of Merger between Duke Energy Corporation, Diamond Acquisition Corporation and Progress Energy, Inc., dated as of January 8, 2011 (incorporated by reference to Exhibit 2.1 to Duke Energy Corporation's Current Report on Form 8-K filed on January 11, 2011, File No. 1-32853).	X		X					
2.2	Agreement and Plan of Merger between Piedmont Natural Gas Company, Duke Energy Corporation and Forest Subsidiary, Inc. (incorporated by reference to Exhibit 2.1 to Duke Energy Corporation's Current Report on Form 8-K filed on October 26, 2015, File No. 1-32853).	X							X
3.1	Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 to Duke Energy Corporation's Current Report on Form 8-K filed on May 20, 2014, File No. 1-32853).	X							
3.2	Amended and Restated By-Laws of Duke Energy Corporation (incorporated by reference to Exhibit 3.1 to Duke Energy Corporation's Current Report on Form 8-K filed on January 4, 2016, File No. 1-32853).	X							
3.3	Articles of Organization including Articles of Conversion (incorporated by reference to Exhibit 3.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on April 7, 2006, File No. 1-4928).		X						
3.3.1	Amended Articles of Organization, effective October 1, 2006, (incorporated by reference to Exhibit 3.1 to Duke Energy Carolinas, LLC's Quarterly Report on Form 10-Q for the quarter ended September 30, 2006, filed on November 13, 2006, File No. 1-4928).		X						
3.4	Amended Articles of Incorporation of Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company), effective October 23, 1996, (incorporated by reference to Exhibit 3(a) to registrant's Quarterly Report on Form 10-Q for the quarter ended September 30, 1996, filed on November 13, 1996, File No. 1-1232).						X		
3.4.1	Amended Articles of Incorporation, effective September 19, 2006, (incorporated by reference to Exhibit 3.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Quarterly Report on Form 10-Q for the quarter ended September 30, 2006, filed on November 17, 2006, File No. 1-1232).						X		
3.5	Certificate of Conversion of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.1 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.1	Articles of Entity Conversion of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.2	Plan of Entity Conversion of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.3 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.3	Articles of Organization of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.4 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.4	Limited Liability Company Operating Agreement of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.5 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.6	Limited Liability Company Operating Agreement of Duke Energy Carolinas, LLC (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on April 7, 2006, File No. 1-4928).		X						

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
3.7	Regulations of Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company), effective July 23, 2003, (incorporated by reference to Exhibit 3.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2003, filed on August 13, 2003, File No. 1-1232).						X		
3.8	Articles of Organization including Articles of Conversion for Duke Energy Progress, LLC (incorporated by reference to Exhibit 3.1 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3382).				X				
3.8.1	Plan of Conversion of Duke Energy Progress, Inc. (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3382).				X				
3.8.2	Limited Liability Company Operating Agreement of Duke Energy Progress, LLC (incorporated by reference to Exhibit 3.3 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3382).				X				
3.9	Amended and Restated Articles of Incorporation of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective June 15, 2000, (incorporated by reference to Exhibit 3(a)(1) to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2000, filed on August 14, 2000, File No. 1-3382).			X					
3.9.1	Articles of Amendment to the Amended and Restated Articles of Incorporation of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective December 4, 2000, (incorporated by reference to Exhibit 3(b)(1) to registrant's Annual Report on Form 10-K for the year ended December 31, 2001, filed on March 28, 2002, File No. 1-3382).			X					
3.9.2	Articles of Amendment to the Amended and Restated Articles of Incorporation of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective May 10, 2006, (incorporated by reference to Exhibit 3(a) to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006, filed on August 9, 2006, File No. 1-15929).			X					
3.9.3	By-Laws of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective May 10, 2006, (incorporated by reference to Exhibit 3(b) to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006, filed on August 9, 2006, File No. 1-15929).			X					
3.10	Articles of Conversion for Duke Energy Florida, LLC (incorporated by reference to Exhibit 3.4 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).					X			
3.10.1	Articles of Organization for Duke Energy Florida, LLC (incorporated by reference to Exhibit 3.5 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).					X			
3.10.2	Plan of Conversion of Duke Energy Florida, Inc. (incorporated by reference to Exhibit 3.6 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).					X			
3.10.3	Limited Liability Company Operating Agreement of Duke Energy Florida, LLC (incorporated by reference to Exhibit 3.7 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).					X			
3.11	Amended and Restated Articles of Incorporation of Piedmont Natural Gas Company, Inc., dated as of October 3, 2016 (incorporated by reference to Exhibit 3.1 to registrant's Annual Report on Form 10-K for the fiscal year ended October 31, 2016, filed on December 22, 2016, File No. 001-06196).								X
3.11.1	Bylaws of Piedmont Natural Gas Company, Inc., as amended and restated effective October 3, 2016 (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on October 3, 2016, File No. 1-06196).								X
3.12	Certificate of Designations with respect to Series A Preferred Stock, dated March 28, 2019 (incorporated by reference to Exhibit 3.1 to Registrant's Current Report on Form 8-K filed on March 29, 2019, File No. 1-32853).	X							

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
3.13	Certificate of Designation with respect to the Series B Preferred Stock, dated September 11, 2019 (incorporated by reference to Exhibit 3.1 to registrant's Current Report on Form 8-K filed on September 12, 2019, File No. 1-32853).	X							
3.14	Description of Registered Securities (incorporated by reference from the registrant's prospectus contained in Form S-3 filed on September 23, 2019, File No. 333-233896, under the headings "Description of Common Stock," "Description of Preferred Stock," "Description of Depositary Shares," "Description of Stock Purchase Contracts and Stock Purchase Units," and "Description of Debt Securities").	X							
3.15	Description of Registered Securities (incorporated by reference from the registrant's prospectus contained in Form S-3 filed on September 23, 2019, File No. 333-233896-01, under the heading "Description of Debt Securities").								X
3.16	Description of Registered Securities (incorporated by reference from the registrant's prospectus contained in Form S-3 filed on September 23, 2019, File No. 333-233896-02, under the headings "Description of First Mortgage Bonds" and "Description of Debt Securities").				X				
3.17	Description of Registered Securities (incorporated by reference from the registrant's prospectus contained in Form S-3 filed on September 23, 2019, File No. 333-233896-03, under the headings "Description of First Mortgage Bonds" and "Description of Unsecured Debt Securities").						X		
3.18	Description of Registered Securities (incorporated by reference from the registrant's prospectus contained in Form S-3 filed on September 23, 2019, File No. 333-233896-04, under the headings "Description of First Mortgage Bonds" and "Description of Unsecured Debt Securities").							X	
3.19	Description of Registered Securities (incorporated by reference from the registrant's prospectus contained in Form S-3 filed on September 23, 2019, File No. 333-233896-05, under the headings "Description of First Mortgage Bonds" and "Description of Debt Securities").					X			
3.20	Description of Registered Securities (incorporated by reference from the registrant's prospectus contained in Form S-3 filed on September 23, 2019, File No. 333-233896-06, under the headings "Description of First and Refunding Mortgage Bonds," "Description of Senior Notes," and "Description of Subordinate Notes").		X						
4.1	Indenture between Duke Energy Corporation and The Bank of New York Mellon Trust Company, N.A., as Trustee, dated as of June 3, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 16, 2008, File No. 1-32853).	X							
4.1.1	First Supplemental Indenture, dated as of June 16, 2008, (incorporated by reference to Exhibit 4.2 to Duke Energy Corporation's Current Report on Form 8-K filed on June 16, 2008, File No. 1-32853).	X							
4.1.2	Second Supplemental Indenture, dated as of January 26, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on January 26, 2009, File No. 1-32853).	X							
4.1.3	Third Supplemental Indenture, dated as of August 28, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on August 28, 2009, File No. 1-32853).	X							
4.1.4	Fourth Supplemental Indenture, dated as of March 25, 2010, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on March 25, 2010, File No. 1-32853).	X							
4.1.5	Fifth Supplemental Indenture, dated as of August 25, 2011, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on August 25, 2011, File No. 1-32853).	X							

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Step 13 2021

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.1.6	Sixth Supplemental Indenture, dated as of November 17, 2011, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on November 17, 2011, File No. 1-32853).	X							
4.1.7	Seventh Supplemental Indenture, dated as of August 16, 2012, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on August 16, 2012, File No. 1-32853).	X							
4.1.8	Eighth Supplemental Indenture, dated as of January 14, 2013, (incorporated by reference to Exhibit 2 to the Registration Statement of Form 8-A of the Company filed on January 14, 2013, File No. 1-32853).	X							
4.1.9	Ninth Supplemental Indenture, dated as of June 13, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 13, 2013, File No. 1-32853).	X							
4.1.10	Tenth Supplemental Indenture, dated as of October 11, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on October 11, 2013, File No. 1-32853).	X							
4.1.11	Eleventh Supplemental Indenture, dated as of April 4, 2014, (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on April 4, 2014, File No. 1-32853).	X							
4.1.12	Twelfth Supplemental Indenture, dated as of November 19, 2015, (incorporated by reference to Exhibit 4.2 to Duke Energy Corporation's Current Report on Form 8-K filed on November 19, 2015, File No. 1-32853).	X							
4.1.13	Thirteenth Supplemental Indenture, dated as of April 18, 2016, to the indenture dated as of June 3, 2008, between Duke Energy Corporation and The Bank of New York Mellon Trust Company, N.A., as Trustee (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended March 31, 2016, filed on May 5, 2016, File No. 1-32853).	X							
4.1.14	Fourteenth Supplemental Indenture, dated as of August 12, 2016, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 12, 2016, File No. 1-32853).	X							
4.1.15	Fifteenth Supplemental Indenture, dated as of April 11, 2017 (incorporated by reference to Exhibit 4.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).	X							
4.1.16	Sixteenth Supplemental Indenture, dated as of June 13, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2017 filed on August 3, 2017, File No. 1-32853).	X							
4.1.17	Seventeenth Supplemental Indenture, dated as of August 10, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 10, 2017, File No. 1-32853).	X							
4.1.18	Eighteenth Supplemental Indenture, dated as of March 29, 2018 (incorporated by reference to Exhibit 4.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2018 filed on May 10, 2018, File No. 1-32853).	X							
4.1.19	Nineteenth Supplemental Indenture, dated as of May 16, 2018 (incorporated by reference to Exhibit 4.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2018 filed on August 2, 2018, File No. 1-32853).	X							
4.1.20	Twentieth Supplemental Indenture (incorporated by reference to Exhibit 4.2 to registrant's Registration Statement on Form 8-A filed on September 17, 2018, File No. 1-32853).	X							
4.1.21	Twenty-First Supplemental Indenture (incorporated by reference to Exhibit 4.1 to Registrant's Current Report on Form 8-K filed on March 11, 2019, File no. 1-32853).	X							
4.1.22	Twenty-Second Supplemental Indenture, dated as of June 7, 2019 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on June 7, 2019, File No. 1-32853).	X							

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.2	Senior Indenture between Duke Energy Carolinas, LLC and The Bank of New York Mellon Trust Company, N.A., as successor trustee to JPMorgan Chase Bank (formerly known as The Chase Manhattan Bank), dated as of September 1, 1998, (incorporated by reference to Exhibit 4-D-1 to registrant's Post-Effective Amendment No. 2 to Registration Statement on Form S-3 filed on April 7, 1999, File No. 333-14209).		X						
4.2.1	Fifteenth Supplemental Indenture, dated as of April 3, 2006, (incorporated by reference to Exhibit 4.4.1 to registrant's Registration Statement on Form S-3 filed on October 3, 2007, File No. 333-146483-03).		X						
4.2.2	Sixteenth Supplemental Indenture, dated as of June 5, 2007, (incorporated by reference to Exhibit 4.1 registrant's Current Report on Form 8-K filed on June 6, 2007, File No. 1-4928).		X						
4.3	First and Refunding Mortgage from Duke Energy Carolinas, LLC to The Bank of New York Mellon Trust Company, N.A., successor trustee to Guaranty Trust Company of New York, dated as of December 1, 1927, (incorporated by reference to Exhibit 7(a) to registrant's Form S-1, effective October 15, 1947, File No. 2-7224).		X						
4.3.1	Instrument of Resignation, Appointment and Acceptance among Duke Energy Carolinas, LLC, JPMorgan Chase Bank, N.A., as Trustee, and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of September 24, 2007, (incorporated by reference to Exhibit 4.6.1 to registrant's Registration Statement on Form S-3 filed on October 3, 2007, File No. 333-146483).		X						
4.3.2	Ninth Supplemental Indenture, dated as of February 1, 1949, (incorporated by reference to Exhibit 7(j) to registrant's Form S-1 filed on February 3, 1949, File No. 2-7808).		X						
4.3.3	Twentieth Supplemental Indenture, dated as of June 15, 1964, (incorporated by reference to Exhibit 4-B-20 to registrant's Form S-1 filed on August 23, 1966, File No. 2-25367).		X						
4.3.4	Twenty-third Supplemental Indenture, dated as of February 1, 1968, (incorporated by reference to Exhibit 2-B-26 to registrant's Form S-9 filed on January 21, 1969, File No. 2-31304).		X						
4.3.5	Sixtieth Supplemental Indenture, dated as of March 1, 1990, (incorporated by reference to Exhibit 4-B-61 to registrant's Annual Report on Form 10-K for the year ended December 31, 1990, File No.1-4928).		X						
4.3.6	Sixty-third Supplemental Indenture, dated as of July 1, 1991, (incorporated by reference to Exhibit 4-B-64 to registrant's Registration Statement on Form S-3 filed on February 13, 1992, File No. 33-45501).		X						
4.3.7	Eighty-fourth Supplemental Indenture, dated as of March 20, 2006, (incorporated by reference to Exhibit 4.6.9 to registrant's Registration Statement on Form S-3 filed on October 3, 2007, File No. 333-146483-03).		X						
4.3.8	Eighty-fifth Supplemental Indenture, dated as of January 10, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on January 11, 2008, File No.1-4928).		X						
4.3.9	Eighty-seventh Supplemental Indenture, dated as of April 14, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on April 15, 2008, File No.1-4928).		X						
4.3.10	Eighty-eighth Supplemental Indenture, dated as of November 17, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on November 20, 2008, File No.1-4928).		X						
4.3.11	Ninetieth Supplemental Indenture, dated as of November 19, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on November 19, 2009, File No.1-4928).		X						

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Step 13 2021

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.3.12	Ninety-first Supplemental Indenture, dated as of June 7, 2010, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on June 7, 2010, File No.1-4928).		X						
4.3.13	Ninety-third Supplemental Indenture, dated as of May 19, 2011, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on May 19, 2011, File No.1-4928).		X						
4.3.14	Ninety-fourth Supplemental Indenture, dated as of December 8, 2011, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on December 8, 2011, File No.1-4928).		X						
4.3.15	Ninety-fifth Supplemental Indenture, dated as of September 21, 2012, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on September 21, 2012, File No.1-4928).		X						
4.3.16	Ninety-sixth Supplemental Indenture, dated as of March 12, 2015, between Duke Energy Carolinas, LLC and The Bank of New York Mellon Trust Company, N.A., as Trustee (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on March 12, 2015, File No. 1-4928).		X						
4.3.17	Ninety-seventh Supplemental Indenture, dated as of March 11, 2016, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on March 11, 2016, File No. 1-4928).		X						
4.3.18	Ninety-eighth Supplemental Indenture, dated as of November 17, 2016, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on November 17, 2016, File No. 1-4928).		X						
4.3.19	Ninety-ninth Supplemental Indenture, dated as of November 14, 2017, (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC Current Report on Form 8-K filed on November 14, 2017, File No. 1-4928).		X						
4.3.20	One Hundredth Supplemental Indenture, dated as of March 1, 2018 (incorporated by reference to Exhibit 4.1 to Registrant's Current Report on Form 8-K filed on March 1, 2018, File No. 1-4928).		X						
4.3.21	One-Hundred and Second Supplemental Indenture, dated as of August 14, 2019 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 14, 2019, File No. 1-04928).		X						
4.4	Mortgage and Deed of Trust between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and The Bank of New York Mellon (formerly Irving Trust Company) and Frederick G. Herbst (Tina D. Gonzalez, successor), as Trustees, dated as of May 1, 1940.				X				
4.4.1	First through Fifth Supplemental Indentures thereto (incorporated by reference to Exhibit 2(b), File No. 2-64189).				X				
4.4.2	Sixth Supplemental Indenture dated April 1, 1960 (incorporated by reference to Exhibit 2(b)-5, File No. 2-16210).				X				
4.4.3	Seventh Supplemental Indenture dated November 1, 1961 (incorporated by reference to Exhibit 2(b)-6, File No. 2-16210).				X				
4.4.4	Eighth Supplemental Indenture dated July 1, 1964 (incorporated by reference to Exhibit 4(b)-8, File No. 2-19118).				X				
4.4.5	Ninth Supplemental Indenture dated April 1, 1966 (incorporated by reference to Exhibit 4(b)-2, File No. 2-22439).				X				
4.4.6	Tenth Supplemental Indenture dated October 1, 1967 (incorporated by reference to Exhibit 4(b)-2, File No. 2-24624).				X				
4.4.7	Eleventh Supplemental Indenture dated October 1, 1968 (incorporated by reference to Exhibit 2(c), File No. 2-27297).				X				

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Step 13 2021

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.4.8	Twelfth Supplemental Indenture dated January 1, 1970 (incorporated by reference to Exhibit 2(c), File No. 2-30172).				X				
4.4.9	Thirteenth Supplemental Indenture dated August 1, 1970 (incorporated by reference to Exhibit 2(c), File No. 2-35694).				X				
4.4.10	Fourteenth Supplemental Indenture dated January 1, 1971 (incorporated by reference to Exhibit 2(c), File No. 2-37505).				X				
4.4.11	Fifteenth Supplemental Indenture dated October 1, 1971 (incorporated by reference to Exhibit 2(c), File No. 2-39002).				X				
4.4.12	Sixteenth Supplemental Indenture dated May 1, 1972 (incorporated by reference to Exhibit 2(c), File No. 2-41738).				X				
4.4.13	Seventeenth Supplemental Indenture dated November 1, 1973 (incorporated by reference to Exhibit 2(c), File No. 2-43439).				X				
4.4.14	Eighteenth Supplemental Indenture dated (incorporated by reference to Exhibit 2(c), File No. 2-47751).				X				
4.4.15	Nineteenth Supplemental Indenture dated May 1, 1974 (incorporated by reference to Exhibit 2(c), File No. 2-49347).				X				
4.4.16	Twentieth Supplemental Indenture dated December 1, 1974 (incorporated by reference to Exhibit 2(c), File No. 2-53113).				X				
4.4.17	Twenty-first Supplemental Indenture dated April 15, 1975 (incorporated by reference to Exhibit 2(d), File No. 2-53113).				X				
4.4.18	Twenty-second Supplemental Indenture dated October 1, 1977 (incorporated by reference to Exhibit 2(c), File No. 2-59511).				X				
4.4.19	Twenty-third Supplemental Indenture dated June 1, 1978 (incorporated by reference to Exhibit 2(c), File No. 2-61611).				X				
4.4.20	Twenty-fourth Supplemental Indenture dated May 15, 1979 (incorporated by reference to Exhibit 2(d), File No. 2-64189).				X				
4.4.21	Twenty-fifth Supplemental Indenture dated November 1, 1979 (incorporated by reference to Exhibit 2(c), File No. 2-65514).				X				
4.4.22	Twenty-sixth Supplemental Indenture dated November 1, 1979 (incorporated by reference to Exhibit 2(c), File No. 2-66851).				X				
4.4.23	Twenty-seventh Supplemental Indenture dated April 1, 1980 (incorporated by reference to Exhibit 2 (d), File No. 2-66851).				X				
4.4.24	Twenty-eighth Supplemental Indenture dated October 1, 1980 (incorporated by reference to Exhibit 4(b)-1, File No. 2-81299).				X				
4.4.25	Twenty-ninth Supplemental Indenture dated October 1, 1980 (incorporated by reference to Exhibit 4(b)-2, File No. 2-81299).				X				
4.4.26	Thirtieth Supplemental Indenture dated December 1, 1982 (incorporated by reference to Exhibit 4(b)- 3, File No. 2-81299).				X				
4.4.27	Thirty-first Supplemental Indenture dated March 15, 1983 (incorporated by reference to Exhibit 4(c)-1, File No. 2-95505).				X				
4.4.28	Thirty-second Supplemental Indenture dated March 15, 1983 (incorporated by reference to Exhibit 4(c)-2, File No. 2-95505).				X				
4.4.29	Thirty-third Supplemental Indenture dated December 1, 1983 (incorporated by reference to Exhibit 4(c)-3, File No. 2-95505).				X				
4.4.30	Thirty-fourth Supplemental Indenture dated December 15, 1983 (incorporated by reference to Exhibit 4(c)-4, File No. 2-95505).				X				
4.4.31	Thirty-fifth Supplemental Indenture dated April 1, 1984 (incorporated by reference to Exhibit 4(c)-5, File No. 2-95505).				X				

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Step 13 2021

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.4.32	Thirty-sixth Supplemental Indenture dated June 1, 1984 (incorporated by reference to Exhibit 4(c)-6, File No. 2-95505).				X				
4.4.33	Thirty-seventh Supplemental Indenture dated June 1, 1984 (incorporated by reference to Exhibit 4(c)-7, File No. 2-95505).				X				
4.4.34	Thirty-eighth Supplemental Indenture dated June 1, 1984 (incorporated by reference to Exhibit 4(c)- 8, File No. 2-95505).				X				
4.4.35	Thirty-ninth Supplemental Indenture dated April 1, 1985 (incorporated by reference to Exhibit 4(b), File No. 33-25560).				X				
4.4.36	Fortieth Supplemental Indenture dated October 1, 1985 (incorporated by reference to Exhibit 4(c), File No. 33-25560).				X				
4.4.37	Forty-first Supplemental Indenture dated March 1, 1986 (incorporated by reference to Exhibit 4(d), File No. 33-25560).				X				
4.4.38	Forty-second Supplemental Indenture dated July 1, 1986 (incorporated by reference to Exhibit 4(e), File No. 33-25560).				X				
4.4.39	Forty-third Supplemental Indenture dated January 1, 1987 (incorporated by reference to Exhibit 4(f), File No. 33-25560).				X				
4.4.40	Forty-fourth Supplemental Indenture dated December 1, 1987 (incorporated by reference to Exhibit 4(g), File No. 33-25560).				X				
4.4.41	Forty-fifth supplemental Indenture dated September 1, 1988 (incorporated by reference to Exhibit 4(h), File No. 33-25560).				X				
4.4.42	Forty-sixth Supplemental Indenture dated April 1, 1989 (incorporated by reference to Exhibit 4(b), File No. 33-33431).				X				
4.4.43	Forty-seventh Supplemental Indenture dated August 1, 1989 (incorporated by reference to Exhibit 4(c), File No. 33-33431).				X				
4.4.44	Forty-eighth Supplemental Indenture dated November 15, 1990 (incorporated by reference to Exhibit 4(b), File No. 33-38298).				X				
4.4.45	Forty-ninth Supplemental Indenture dated November 15, 1990 (incorporated by reference to Exhibit 4(c), File No. 33-38298).				X				
4.4.46	Fiftieth Supplemental Indenture dated February 15, 1991 (incorporated by reference to Exhibit 4(h), File No. 33-42869).				X				
4.4.47	Fifty-first Supplemental Indenture dated April 1, 1991 (incorporated by reference to Exhibit 4(i), File No. 33-42869).				X				
4.4.48	Fifty-second Supplemental Indenture dated September 15, 1991(incorporated by reference to Exhibit 4(e), File No. 33-48607).				X				
4.4.49	Fifty-third Supplemental Indenture dated January 1, 1992 (incorporated by reference to Exhibit 4(f), File No. 33-48607).				X				
4.4.50	Fifty-fourth Supplemental Indenture dated April 15, 1992 (incorporated by reference to Exhibit 4 (g), File No. 33-48607).				X				
4.4.51	Fifty-fifth Supplemental Indenture dated July 1, 1992 (incorporated by reference to Exhibit 4(e), File No. 33-55060).				X				
4.4.52	Fifty-sixth Supplemental Indenture dated October 1, 1992 (incorporated by reference to Exhibit 4(f), File No. 33-55060).				X				
4.4.53	Fifty-seventh Supplemental Indenture dated February 1, 1993 (incorporated by reference to Exhibit 4(e), File No. 33-60014).				X				
4.4.54	Fifty-eighth Supplemental Indenture dated March 1, 1993 (incorporated by reference to Exhibit 4(f), File No. 33-60014).				X				
4.4.55	Fifty-ninth Supplemental Indenture dated July 1, 1993 (incorporated by reference to Exhibit 4(a) to Post-Effective Amendment No. 1, File No. 33-38349).				X				

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.4.56	Sixtieth Supplemental Indenture dated July 1, 1993 (incorporated by reference to Exhibit 4(b) to Post-Effective Amendment No. 1, File No. 33-38349).				X				
4.4.57	Sixty-first Supplemental Indenture dated August 15, 1993 (incorporated by reference to Exhibit 4(e), File No. 33-50597).				X				
4.4.58	Sixty-second Supplemental Indenture dated January 15, 1994 (incorporated by reference to Exhibit 4 to Duke Energy Progress' Current Report on Form 8-K dated January 19, 1994, File No. 1-3382).				X				
4.4.59	Sixty-third Supplemental Indenture dated May 1, 1994 (incorporated by reference to Exhibit 4(f) for Duke Energy Progress' Form S-3, File No. 033-57835).				X				
4.4.60	Sixty-fourth Supplemental Indenture dated August 15, 1997 (incorporated by reference to Exhibit to Duke Energy Progress' Current Report on Form 8-K dated August 26, 1997, File No. 1-3382).				X				
4.4.61	Sixty-fifth Supplemental Indenture dated April 1, 1998 (incorporated by reference to Exhibit 4(b) for Duke Energy Progress' Registration Statement on Form S-3 filed December 18, 1998, File No. 333-69237).				X				
4.4.62	Sixty-sixth Supplemental Indenture dated March 1, 1999 (incorporated by reference to Exhibit 4(c) to Duke Energy Progress' Current Report on Form 8-K dated March 19, 1999, File No. 1-3382).				X				
4.4.63	Form of Carolina Power & Light Company First Mortgage Bond, 6.80% Series Due August 15, 2007 (incorporated by reference to Exhibit 4 to Duke Energy Progress' Form 10-Q for the period ended September 30, 1998, File No. 1-3382).				X				
4.4.64	Sixty-eighth Supplemental Indenture dated April 1, 2000 (incorporated by reference to Exhibit No. 4(b) to Duke Energy Progress' Current Report on Form 8-K dated April 20, 2000, File No. 1-3382).				X				
4.4.65	Sixty-ninth Supplemental Indenture dated June 1, 2000 (incorporated by reference to Exhibit No. 4b(2) to Duke Energy Progress' Annual Report on Form 10-K dated March 29, 2001, File No. 1-3382).				X				
4.4.66	Seventieth Supplemental Indenture dated July 1, 2000 (incorporated by reference to Exhibit 4b(3) to Duke Energy Progress' Annual Report on Form 10-K dated March 29, 2001, File No. 1-3382).				X				
4.4.67	Seventy-first Supplemental Indenture dated February 1, 2002 (incorporated by reference to Exhibit 4b(2) to Duke Energy Progress' Annual Report on Form 10-K dated March 28, 2002, File No. 1-3382 and 1-15929).				X				
4.4.68	Seventy-second Supplemental Indenture, dated as of September 1, 2003, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on September 12, 2003, File No. 1-3382).				X				
4.4.69	Seventy-third Supplemental Indenture, dated as of March 1, 2005, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on March 22, 2005, File No. 1-3382).				X				
4.4.70	Seventy-fourth Supplemental Indenture, dated as of November 1, 2005, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on November 30, 2005, File No. 1-3382).				X				
4.4.71	Seventy-fifth Supplemental Indenture, dated as of March 1, 2008, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on March 13, 2008, File No. 1-3382).				X				

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Step 13 2021

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.4.72	Seventy-sixth Supplemental Indenture, dated as of January 1, 2009, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on January 15, 2009, File No. 1-3382).				X				
4.4.73	Seventy-seventh Supplemental Indenture, dated as of June 18, 2009, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on June 23, 2009, File No. 1-3382).				X				
4.4.74	Seventy-eighth Supplemental Indenture, dated as of September 1, 2011, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on September 15, 2011, File No. 1-3382).				X				
4.4.75	Seventy-ninth Supplemental Indenture, dated as of May 1, 2012, (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on May 18, 2012, File No. 1-3382).				X				
4.4.76	Eightieth Supplemental Indenture, dated as of March 1, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on March 12, 2013, File No. 1-3382).				X				
4.4.77	Eighty-second Supplemental Indenture, dated as of March 1, 2014, between the Company and The Bank of New York Mellon (formerly Irving Trust Company) and Tina D. Gonzalez (successor to Frederick G. Herbst) and forms of global notes (incorporated by reference to Exhibit 4.1 to Duke Energy Progress, Inc.'s Current Report on Form 8-K filed on March 6, 2014, File No. 1-3382).				X				
4.4.78	Eighty-third Supplemental Indenture, dated as of November 1, 2014, between the Company and The Bank of New York Mellon (formerly Irving Trust Company) and Tina D. Gonzalez (successor to Frederick G. Herbst) and forms of global notes (incorporated by reference to Exhibit 4.1 to Duke Energy Progress, Inc.'s Current Report on Form 8-K filed on November 20, 2014, File No. 1-3382).				X				
4.4.79	Eighty-fifth Supplemental Indenture, dated as of August 1, 2015, (incorporated by reference to Exhibit 4.1 to Duke Energy Progress, LLC's Current Report on Form 8-K filed on August 13, 2015, File No. 1-3382).				X				
4.4.80	Eighty-sixth Supplemental Indenture, dated as of September 1, 2016, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 16, 2016, File No. 1-15929).				X				
4.4.81	Eighty-seventh Supplemental Indenture, dated as of September 1, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 8, 2017, File No. 1-3382).				X				
4.4.82	Eighty-Ninth Supplemental Indenture (incorporated by reference to Exhibit 4.1 to Registrant's Current Report on Form 8-K filed on March 7, 2019, File no. 1-3382).				X				
4.5	Indenture (for Debt Securities) between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and The Bank of New York Mellon (successor in interest to The Chase Manhattan Bank), as Trustee (incorporated by reference to Exhibit 4(a) to registrant's Current Report on Form 8-K filed on November 5, 1999, File No. 1-3382).				X				
4.6	Indenture (for [Subordinated] Debt Securities) (open ended) (incorporated by reference to Exhibit 4(a)(2) to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Registration Statement on Form S-3 filed on November 18, 2008, File No. 333-155418).				X				

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Step 13 2021

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.7	Indenture (for First Mortgage Bonds) between Duke Energy Florida, Inc. (formerly Florida Power Corporation) and The Bank of New York Mellon (as successor to Guaranty Trust Company of New York and The Florida National Bank of Jacksonville), as Trustee, dated as of January 1, 1944, (incorporated by reference to Exhibit B-18 to registrant's Form A-2, File No. 2-5293).					X			
4.7.1	Seventh Supplemental Indenture (incorporated by reference to Exhibit 4(b) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 27, 1991, File No. 33-16788).					X			
4.7.2	Eighth Supplemental Indenture (incorporated by reference to Exhibit 4(c) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 27, 1991, File No. 33-16788).					X			
4.7.3	Sixteenth Supplemental Indenture (incorporated by reference to Exhibit 4(d) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 27, 1991, File No. 33-16788).					X			
4.7.4	Twenty-ninth Supplemental Indenture (incorporated by reference to Exhibit 4(c) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 17, 1982, File No. 2-79832).					X			
4.7.5	Thirty-eighth Supplemental Indenture, dated as of July 25, 1994, (incorporated by reference to exhibit 4(f) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on August 29, 1994, File No. 33-55273).					X			
4.7.6	Forty-first Supplemental Indenture, dated as of February 1, 2003, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Duke Energy Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on February 21, 2003, File No. 1-3274).					X			
4.7.7	Forty-second Supplemental Indenture, dated as of April 1, 2003, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Quarterly Report on Form 10-Q for the quarter ended June 30, 2003, filed on August 11, 2003, File No. 1-3274).					X			
4.7.8	Forty-third Supplemental Indenture, dated as of November 1, 2003, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on November 21, 2003, File No. 1-3274).					X			
4.7.9	Forty-fourth Supplemental Indenture, dated as of August 1, 2004, (incorporated by reference to Exhibit 4(m) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Annual Report on Form 10-K for the year ended December 31, 2004, filed on March 16, 2005, File No. 1-3274).					X			
4.7.10	Forty-sixth Supplemental Indenture, dated as of September 1, 2007, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on September 19, 2007, File No. 1-3274).					X			
4.7.11	Forty-seventh Supplemental Indenture, dated as of December 1, 2007, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on December 13, 2007, File No. 1-3274).					X			
4.7.12	Forty-eighth Supplemental Indenture, dated as of June 1, 2008, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on June 18, 2008, File No. 1-3274).					X			

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Step 13 2021

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.7.13	Forty-ninth Supplemental Indenture, dated as of March 1, 2010, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on March 25, 2010, File No. 1-3274).					X			
4.7.14	Fiftieth Supplemental Indenture, dated as of August 11, 2011, (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on August 18, 2011, File No. 1-3274).					X			
4.7.15	Fifty-first Supplemental Indenture, dated as of November 1, 2012, (incorporated by reference to Exhibit 4.1 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on November 20, 2012, File No. 1-3274).					X			
4.7.16	Fifty-third Supplemental Indenture, dated as of September 1, 2016, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 9, 2016, File No. 1-03274).					X			
4.7.17	Fifty-fifth Supplemental Indenture, dated as of June 1, 2018, (incorporated by reference to Exhibit 4.1 to Registrant's Current Report on Form 8-K filed on June 21, 2018, File No. 1-3274).					X			
4.7.18	Fifty-Sixth Supplemental Indenture, dated as of November 1, 2019 (incorporated by reference to Exhibit 4.1 to Registrant's Current Report on Form 8-K filed on November 26, 2019, File No. 1-3274).					X			
4.8	Indenture (for Debt Securities) between Duke Energy Florida, Inc. (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) and The Bank of New York Mellon Trust Company, National Association (successor in interest to J.P. Morgan Trust Company, National Association), as Trustee, dated as of December 7, 2005, (incorporated by reference to Exhibit 4(a) to registrant's Current Report on Form 8-K filed on December 13, 2005, File No. 1-3274).					X			
4.8.1	First Supplemental Indenture, dated as of December 12, 2017, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on December 12, 2017, File No. 1-03274).					X			
4.8.2	Second Supplemental Indenture, dated as of November 26, 2019 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on November 26, 2019, File No. 1-3274).					X			
4.9	Indenture (for [Subordinated] Debt Securities) (open ended) (incorporated by reference to Exhibit 4(a)(2) Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Registration Statement on Form S-3 filed on November 18, 2008, File No. 333-155418).					X			
4.10	Original Indenture (Unsecured Debt Securities) between Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company) and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of May 15, 1995, (incorporated by reference to Exhibit 3 to registrant's Form 8-A filed on July 27, 1995, File No. 1-1232).						X		
4.10.1	First Supplemental Indenture, dated as of June 1, 1995, (incorporated by reference to Exhibit 4 B to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Quarterly Report on Form 10-Q for the quarter ended June 30, 1995, filed on August 11, 1995, File No. 1-1232).						X		
4.10.2	Seventh Supplemental Indenture, dated as of June 15, 2003, (incorporated by reference to Exhibit 4.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Quarterly Report on Form 10-Q for the quarter ended June 30, 2003, filed on August 13, 2003, File No. 1-1232).						X		

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Step 13 2021

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.11	Original Indenture (First Mortgage Bonds) between Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company) and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of August 1, 1936, (incorporated by reference to an exhibit to registrant's Registration Statement No. 2-2374).						X		
4.11.1	Fortieth Supplemental Indenture, dated as of March 23, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Current Report on Form 8-K filed on March 24, 2009, File No. 1-1232).						X		
4.11.2	Forty-second Supplemental Indenture, dated as of September 6, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Current Report on Form 8-K filed on September 6, 2013, File No. 1-1232).						X		
4.11.3	Forty-fourth Supplemental Indenture, dated as of June 23, 2016, (incorporated by reference to Exhibit 4.1 registrant's Current Report on Form 8-K filed on June 23, 2016, File No. 1-1232).						X		
4.11.4	Forty-fifth Supplemental Indenture, dated as of March 27, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on March 27, 2017, File No. 1-01232).						X		
4.11.5	Forty-sixth Supplemental Indenture, dated as of January 8, 2019, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on January 8, 2019, File No. 1-1232).						X		
4.12	Indenture between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of November 15, 1996, (incorporated by reference to Exhibit 4(v) to the Cinergy Corp. Form 10-K for the year ended December 31, 1996, filed on March 27, 1997, File No. 1-11377).							X	
4.12.1	Third Supplemental Indenture, dated as of March 15, 1998, (incorporated by reference to Exhibit 4-w to Cinergy Corp.'s Annual Report on Form 10-K for the year ended December 31, 1997, filed on March 27, 1998, File No. 1-11377).							X	
4.12.2	Eighth Supplemental Indenture, dated as of September 23, 2003, (incorporated by reference to Exhibit 4.2 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Quarterly Report on Form 10-Q for the quarter ended September 30, 2003, filed on November 13, 2003, File No. 1-3543).							X	
4.12.3	Ninth Supplemental Indenture, dated as of October 21, 2005, (incorporated by reference to Exhibit 4.7.3 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633).							X	
4.12.4	Tenth Supplemental Indenture, dated as of June 9, 2006, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on June 15, 2006, File No. 1-3543).							X	
4.13	Original Indenture (First Mortgage Bonds) between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Deutsche Bank National Trust Company, as Successor Trustee, dated as of September 1, 1939, (filed as an exhibit in File No. 70-258).							X	
4.13.1	Tenth Supplemental Indenture, dated as of July 1, 1952, (filed as an exhibit in File No. 2-9687).							X	
4.13.2	Twenty-third Supplemental Indenture, dated as of January 1, 1977, (filed as an exhibit in File No. 2-57828).							X	
4.13.3	Twenty-fifth Supplemental Indenture, dated as of September 1, 1978, (filed as an exhibit in File No. 2-62543).							X	
4.13.4	Twenty-sixth Supplemental Indenture, dated as of September 1, 1978, (filed as an exhibit in File No. 2-62543).							X	

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Step 13 2021

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.13.5	Thirtieth Supplemental Indenture, dated as of August 1, 1980, (filed as an exhibit in File No. 2-68562).							X	
4.13.6	Thirty-fifth Supplemental Indenture, dated as of March 30, 1984, (filed as an exhibit to registrant's Annual Report on Form 10-K for the year ended December 31, 1984, File No. 1-3543).							X	
4.13.7	Forty-sixth Supplemental Indenture, dated as of June 1, 1990, (filed as an exhibit to registrant's Annual Report on Form 10-K for the year ended December 31, 1991, File No. 1-3543).							X	
4.13.8	Forty-seventh Supplemental Indenture, dated as of July 15, 1991, (filed as an exhibit to registrant's Annual Report on Form 10-K for the year ended December 31, 1991, File No. 1-3543).							X	
4.13.9	Forty-eighth Supplemental Indenture, dated as of July 15, 1992, (filed as an exhibit to registrant's Annual Report on Form 10-K for the year ended December 31, 1992, File No. 1-3543).							X	
4.13.10	Fifty-second Supplemental Indenture, dated as of April 30, 1999, (incorporated by reference to Exhibit 4 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Quarterly Report on Form 10-Q for the quarter ended March 31, 1999, filed on May 13, 1999, File No. 1-3543).							X	
4.13.11	Fifty-seventh Supplemental Indenture, dated as of August 21, 2008, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report Form 8-K filed on August 21, 2008, File No. 1-3543).							X	
4.13.12	Fifty-eighth Supplemental Indenture, dated as of December 19, 2008, (incorporated by reference to Exhibit 4.8.12 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633-02).							X	
4.13.13	Fifty-ninth Supplemental Indenture, dated as of March 23, 2009, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on March 24, 2009, File No. 1-3543).							X	
4.13.14	Sixtieth Supplemental Indenture, dated as of June 1, 2009, (incorporated by reference to Exhibit 4.8.14 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633-02).							X	
4.13.15	Sixty-first Supplemental Indenture, dated as of October 1, 2009, (incorporated by reference to Exhibit 4.8.15 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633-02).							X	
4.13.16	Sixty-second Supplemental Indenture, dated as of July 9, 2010, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on July 9, 2010, File No. 1-3543).							X	
4.13.17	Sixty-third Supplemental Indenture, dated as of September 23, 2010, (incorporated by reference to Exhibit 4.8.17 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633-02).							X	
4.13.18	Sixty-fourth Supplemental Indenture, dated as of December 1, 2011, (incorporated by reference to Exhibit 4(d)(2)(xviii) to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 30, 2013, File No. 333-191462-03).							X	
4.13.19	Sixty-fifth Supplemental Indenture, dated as of March 15, 2012, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on March 15, 2012, File No. 1-3543).							X	
4.13.20	Sixty-sixth Supplemental Indenture, dated as of July 11, 2013, (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on July 11, 2013, File No. 1-3543).							X	

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.13.21	Sixty-seventh Supplemental Indenture, dated as of January 1, 2016, between Duke Energy Indiana, Inc. and Deutsche Bank National Trust Company, as Trustee, supplementing and amending the Indenture of Mortgage or Deed of Trust, dated September 1, 1939, between Duke Energy Indiana, Inc. and Deutsche Bank National Trust Company, as Trustee (incorporated by reference to Exhibit 4.2 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Quarterly Report on Form 10-Q for the quarter ended March 31, 2016, filed on May 5, 2016, File No. 1-3543).							X	
4.13.22	Sixty-eighth Supplemental Indenture, dated as of May 12, 2016, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on May 12, 2016, File No. 1-3543).							X	
4.13.23	Sixty-Ninth Supplemental Indenture, dated as of September 27, 2019 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 27, 2019, File No. 1-3543).							X	
4.14	Repayment Agreement between Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company) and The Dayton Power and Light Company, dated as of December 23, 1992, (filed with registrant's Annual Report on Form 10-K for the year ended December 31, 1992, File No. 1-1232).						X		
4.15	Unsecured Promissory Note between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and the Rural Utilities Service, dated as of October 14, 1998, (incorporated by reference to Exhibit 4 to registrant's Annual Report on Form 10-K for the year ended December 31, 1998, filed on March 8, 1999, File No. 1-3543).							X	
4.16	6.302% Subordinated Note between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Cinergy Corp., dated as of February 5, 2003, (incorporated by reference to Exhibit 4(yyy) to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2003, filed on May 12, 2003, File No. 1-3543).							X	
4.17	6.403% Subordinated Note between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Cinergy Corp., dated as of February 5, 2003, (incorporated by reference to Exhibit 4(zzz) to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2003, filed on May 12, 2003, File No. 1-3543).							X	
4.18	Contingent Value Obligation Agreement between Progress Energy, Inc. (formerly CP&L Energy, Inc.) and The Chase Manhattan Bank, as Trustee, dated as of November 30, 2000, (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on December 1, 2000, File No. 1-3382).			X					
4.19	Form of 3.47% Series A Senior Notes due July 16, 2027 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on March 29, 2012, File No. 1-06196).								X
4.20	Form of 3.57% Series B Senior Notes due July 16, 2027 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on March 29, 2012, File No. 1-06196).								X
4.21	Form of 4.65% Senior Notes due 2043 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on August 1, 2013, File No. 1-06196).								X
4.22	Form of 4.10% Senior Notes due 2034 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on September 18, 2014, File No. 1-06196).								X
4.23	Form of 3.60% Senior Notes due 2025 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on September 14, 2015, File No. 1-06196).								X
4.24	Form of 3.64% Senior Notes due 2046 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on July 28, 2016, File No. 1-06196).								X

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Step 13 2021

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.25	Form of 4.24% Series B Senior Notes due June 6, 2021 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on May 12, 2011, File No. 1-06196).								X
4.26	Indenture, dated as of April 1, 1993, between Piedmont and The Bank of New York Mellon Trust Company, N.A. (as successor to Citibank, N.A.), Trustee (incorporated by reference to Exhibit 4.1 to registrant's Registration Statement on Form S-3 filed on May 16, 1995, File No. 33-59369).								X
4.26.1	Second Supplemental Indenture, dated as of June 15, 2003, between Piedmont and Citibank, N.A., Trustee (incorporated by reference to Exhibit 4.3 to registrant's Registration Statement on Form S-3 filed on June 19, 2003, File No. 333-106268).								X
4.26.2	Fourth Supplemental Indenture, dated as of May 6, 2011, between Piedmont Natural Gas Company, Inc. and The Bank of New York Mellon Trust Company, N.A., as trustee (incorporated by reference to Exhibit 4.2 to registrant's Registration Statement on Form S-3-ASR filed on July 7, 2011, File No. 333-175386).								X
4.26.3	Fifth Supplemental Indenture, dated August 1, 2013, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 1, 2013, File No. 1-06196).								X
4.26.4	Sixth Supplemental Indenture, dated September 18, 2014, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 18, 2014, File No. 1-06196).								X
4.26.5	Seventh Supplemental Indenture, dated September 14, 2015, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 14, 2015, File No. 1-06196).								X
4.26.6	Eighth Supplemental Indenture, dated July 28, 2016, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on July 28, 2016, File No. 1-06196).								X
4.26.7	Ninth Supplemental Indenture, dated as of May 24, 2019 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on May 24, 2019, File No. 1-6196).								X
4.27	Medium-Term Note, Series A, dated as of October 6, 1993 (incorporated by reference to Exhibit 4.8 to registrant's Annual Report on Form 10-K for the year ended October 31, 1993, File No. 1-06196).								X
4.28	Medium-Term Note, Series A, dated as of September 19, 1994 (incorporated by reference to Exhibit 4.9 to registrant's Annual Report on Form 10-K for the year ended October 31, 1994, File No. 1-06196).								X
4.29	Form of 6% Medium-Term Note, Series E, dated as of December 19, 2003 (incorporated by reference to Exhibit 99.2 to registrant's Current Report on Form 8-K filed on December 23, 2003, File No. 1-06196).								X
4.30	Form of Master Global Note (incorporated by reference to Exhibit 4.4 to registrant's Registration Statement on Form S-3 filed on April 30, 1997, File No. 333-26161).								X
4.31	Pricing Supplement of Medium-Term Notes, Series B, dated October 3, 1995 (incorporated by reference to Exhibit 4.10 to registrant's Annual Report on Form 10-K for the year ended October 31, 1995, File No. 1-06196).								X
4.32	Pricing Supplement of Medium-Term Notes, Series B, dated October 4, 1996 (incorporated by reference to Exhibit 4.11 to registrant's Annual Report on Form 10-K for the year ended October 31, 1996, File No. 1-06196).								X

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Step 13 2021

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
4.33	Pricing Supplement of Medium-Term Notes, Series C, dated September 15, 1999 (incorporated by reference to Rule 424(b)(3) Pricing Supplement to Form S-3 Registration Statement Nos. 33-59369 and 333-26161).								X
4.34	Agreement of Resignation, Appointment and Acceptance dated as of March 29, 2007, by and among Piedmont Natural Gas Company, Inc., Citibank, N.A., and The Bank of New York Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended April 30, 2007, filed on June 8, 2007, File No. 1-06196).								X
10.1	Agreements with Piedmont Electric Membership Corporation, Rutherford Electric Membership Corporation and Blue Ridge Electric Membership Corporation (incorporated by reference to Exhibit 10.15 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006, filed on August 9, 2006, File No. 1-32853).		X						
10.2	Asset Purchase Agreement between Saluda River Electric Cooperative, Inc., as Seller, and Duke Energy Carolinas, LLC, as Purchaser, dated as of December 20, 2006, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on December 27, 2006, File No. 1-4928).		X						
10.3	Settlement between Duke Energy Corporation, Duke Energy Carolinas, LLC and the U.S. Department of Justice resolving Duke Energy's used nuclear fuel litigation against the U.S. Department of Energy, dated as of March 6, 2007, (incorporated by reference to Item 8.01 to registrant's Current Report on Form 8-K filed on March 12, 2007, File No. 1-4928).		X						
10.4	Letter Agreement between Georgia Natural Gas Company and Piedmont Energy Company dated February 12, 2016 (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on February 18, 2016, File No. 1-06196).								X
10.5	Assignment of Membership Interests dated as of October 3, 2016 between Piedmont ACP Company, LLC and Dominion Atlantic Coast Pipeline, LLC, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on October 7, 2016, File No. 1-06196).								X
10.6	Agreements between Piedmont Electric Membership Corporation, Rutherford Electric Membership Corporation and Blue Ridge Electric Membership Corporation (incorporated by reference to Exhibit 10.15 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006 filed on August 9, 2006, File No. 1-32853).		X						
10.7	Conveyance and Assignment Agreement, dated as of October 3, 2016, by and between Piedmont Energy Company and Georgia Natural Gas Company (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on October 3, 2016, File No. 1-06196).								X
10.8	Engineering, Procurement and Construction Management Agreement between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Bechtel Power Corporation, dated as of December 15, 2008, (incorporated by reference to Exhibit 10.16 to registrant's Annual Report on Form 10-K for the year ended December 31, 2008, filed on March 13, 2009, File No. 1-3543). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)							X	
10.9	Formation and Sale Agreement between Duke Ventures, LLC, Crescent Resources, LLC, Morgan Stanley Real Estate Fund V U.S. L.P., Morgan Stanley Real Estate Fund V Special U.S., L.P., Morgan Stanley Real Estate Investors V U.S., L.P., MSP Real Estate Fund V, L.P., and Morgan Stanley Strategic Investments, Inc., dated as of September 7, 2006, (incorporated by reference to Exhibit 10.3 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2006, filed on November 9, 2006, File No. 1-32853).	X							

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Step 13 2021

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.10	Operating Agreement of Pioneer Transmission, LLC (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2008, filed on November 7, 2008, File No. 1-32853).	X							
10.11**	Amended and Restated Duke Energy Corporation Directors' Saving Plan, dated as of January 1, 2014, (incorporated by reference to Exhibit 10.32 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2013, filed on February 28, 2014, File No. 1-32853).	X							
10.12	Engineering, Procurement and Construction Management Agreement between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Bechtel Power Corporation, dated as of December 15, 2008, (incorporated by reference to Item 1.01 to registrant's Current Report on Form 8-K filed on December 19, 2008, File Nos. 1-32853 and 1-3543). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)	X						X	
10.13**	Duke Energy Corporation Executive Severance Plan (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on January 13, 2011, File No. 1-32853).	X							
10.14	\$6,000,000,000 Five-Year Credit Agreement between Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Carolina Power and Light Company d/b/a Duke Energy Progress, Inc. and Florida Power Corporation, d/b/a Duke Energy Florida, Inc., as Borrowers, the lenders listed therein, Wells Fargo Bank, National Association, as Administrative Agent, Bank of America, N.A. and The Royal Bank of Scotland plc, as Co-Syndication Agents and Bank of China, New York Branch, Barclays Bank PLC, Citibank, N.A., Credit Suisse AG, Cayman Islands Branch, Industrial and Commercial Bank of China Limited, New York Branch, JPMorgan Chase Bank, N.A. and UBS Securities LLC, as Co-Documentation Agents, dated as of November 18, 2011, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on November 25, 2011, File Nos. 1-32853, 1-4928, 1-1232 and 1-3543).	X	X				X	X	
10.14.1	Amendment No. 1 and Consent between Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Duke Energy Progress, Inc., Duke Energy Florida, Inc., and Wells Fargo Bank, National Association, dated as of December 18, 2013, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on December 23, 2013, File Nos. 1-32853, 1-4928, 1-3382, 1-3274, 1-1232 and 1-3543).	X	X		X	X	X	X	
10.14.2	Amendment No. 2 and Consent between Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Duke Energy Progress, Inc., and Duke Energy Florida, Inc., the Lenders party hereto, the issuing Lenders party hereto, Wells Fargo Bank, National Association, as Administrative Agent and Swingline Lender, dated as of January 30, 2015, (incorporated by reference to Exhibit 10.1 of registrant's Current Report on Form 8-K filed on February 5, 2015, File Nos. 1-32853, 1-4928, 1-1232, 1-3543, 1-3382 and 1-3274).	X	X		X	X	X	X	
10.14.3	Amendment No. 3 and Consent, dated as of March 16, 2017, among the registrants, the Lenders party thereto, the issuing Lenders party thereto, and Wells Fargo Bank, National Association, as Administrative Agent and Swingline Lender (incorporated by reference to Exhibit 10.1 to registrants' Current Report on Form 8-K filed on March 17, 2017, File Nos. 1-32853, 1-04928, 1-03382, 1-03274, 1-01232, 1-03543, 1-06196).	X	X		X	X	X	X	X

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Step 13 2021

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.14.4	Amendment No.4 and Consent, dated as of March 18, 2019, among Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Duke Energy Progress, LLC, Duke Energy Florida, LLC, and Piedmont Natural Gas Company, Inc., the Lenders party thereto, the Issuing Lenders party thereto, and Wells Fargo Bank, National Association, as Administrative Agent and Swingline Lender (incorporated by reference to Exhibit 10.1 to Registrants' Current Report on Form 8-K filed on March 21, 2019, File nos. 1-32853. 1-4928, 1-3382, 1-3274, 1-1232, 1-3543, 1-6196).	X	X		X	X	X	X	X
10.15**	Duke Energy Corporation 2010 Long-Term Incentive Plan (incorporated by reference to Appendix A to registrant's Form DEF 14A filed on March 22, 2010, File No. 1-32853).	X							
10.15.1**	Amendment to Duke Energy Corporation 2010 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.3 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2012, filed on August 8, 2012, File No. 1-32853).	X							
10.16**	Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Appendix C to registrant's DEF 14A filed on March 26, 2015, File No. 1-32853).	X							
10.16.1**	Amendment to Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.16.1 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2018, filed on February 28, 2019, File No. 1-32853).	X							
10.17**	Restricted Stock Unit Award Agreement (incorporated by reference to Exhibit 10.4 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).	X							
10.18**	Restricted Stock Unit Award Agreement (incorporated by reference to Exhibit 10.24 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2017 filed on February 21, 2018, File No. 1-32853).	X							
10.19**	Performance-Based Retention Award Agreement (incorporated by reference to Exhibit 10.2 to registrant's Current Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).	X							
10.20**	Performance Award Agreement (incorporated by reference to Exhibit 10.3 to registrant's Current Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).	X							
10.21**	Performance Award Agreement (incorporated by reference to Exhibit 10.27 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2017 filed on February 21, 2018, File No. 1-32853).	X							
10.22**	Performance Share Award Agreement (incorporated by reference to Exhibit 10.2 to Duke Energy Corporation's Current Report on Form 10-Q for the quarter ended March 31, 2019 filed on May 9, 2019, File No. 1-32853).	X							
10.23**	Restricted Stock Unit Award Agreement (incorporated by reference to Exhibit 10.3 to Duke Energy Corporation's Current Report on Form 10-Q for the quarter ended March 31, 2019 filed on May 9, 2019, File No. 1-32853).	X							
10.24	Settlement Agreement between Duke Energy Corporation, the North Carolina Utilities Commission Staff and the North Carolina Public Staff, dated as of November 28, 2012, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on November 29, 2012, File No. 1-32853).	X							

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Step 13 2021

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.25	Settlement Agreement between Duke Energy Corporation and the North Carolina Attorney General, dated as of December 3, 2012, (incorporated by reference Item 7.01 to registrant's Current Report on Form 8-K filed on December 3, 2012, File No. 1-32853).	X							
10.26	Settlement Agreement between Duke Energy Carolinas, LLC, Duke Energy Progress, LLC, and The North Carolina Department of Environmental Quality, dated as of December 31, 2019, (incorporated by reference to Exhibit 10.1 to registrants' Current Report on Form 8-K filed on January 2, 2020, File Nos. 1-4928, 1-3382).		X		X				
10.27**	Form of Change-in-Control Agreement (incorporated by reference to Exhibit 10.58 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2012, filed on March 1, 2013, File No. 1-32853).	X							
10.28**	Amended and Restated Duke Energy Corporation Executive Cash Balance Plan, dated as of January 1, 2014, (incorporated by reference to Exhibit 10.52 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2013, filed on February 28, 2014, File No. 1-32852).	X							
10.29	Purchase, Construction and Ownership Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Municipal Power Agency Number 3 and Exhibits, together with resolution, dated as of December 16, 1981, changing name to North Carolina Eastern Municipal Power Agency, amending letter, dated as of February 18, 1982, and amendment, dated as of February 24, 1982, (incorporated by reference to Exhibit 10(a) to registrant's File No. 33-25560).				X				
10.30	Operating and Fuel Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Municipal Power Agency Number 3 and Exhibits, together with resolution, dated as of December 16, 1981, changing name to North Carolina Eastern Municipal Power Agency, amending letters, dated as of August 21, 1981, and December 15, 1981, and amendment, dated as of February 24, 1982, (incorporated by reference to Exhibit 10(b) to registrant's File No. 33-25560).				X				
10.31	Power Coordination Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Municipal Power Agency Number 3 and Exhibits, together with resolution, dated as of December 16, 1981, changing name to North Carolina Eastern Municipal Power Agency and amending letter, dated as of January 29, 1982, (incorporated by reference to Exhibit 10(c) to registrant's File No. 33-25560).				X				
10.32	Amendment, dated as of December 16, 1982, to Purchase, Construction and Ownership Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Eastern Municipal Power Agency (incorporated by reference to Exhibit 10(d) to registrant's File No. 33-25560).				X				
10.33**	Progress Energy, Inc. 2007 Equity Incentive Plan (incorporated by reference to Exhibit C to registrant's Form DEF 14A filed on March 30, 2007, File No. 1-15929).			X					

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Step 13 2021

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.34	Precedent and Related Agreements between Duke Energy Florida, Inc. (formerly Florida Power Corporation d/b/a Progress Energy Florida, Inc. ("PEF")), Southern Natural Gas Company, Florida Gas Transmission Company ("FGT"), and BG LNG Services, LLC ("BG"), including: a) Precedent Agreement between Southern Natural Gas Company and PEF, dated as of December 2, 2004; b) Gas Sale and Purchase Contract between BG and PEF, dated as of December 1, 2004; c) Interim Firm Transportation Service Agreement by and between FGT and PEF, dated as of December 2, 2004; d) Letter Agreement between FGT and PEF, dated as of December 2, 2004, and Firm Transportation Service Agreement between FGT and PEF to be entered into upon satisfaction of certain conditions precedent; e) Discount Agreement between FGT and PEF, dated as of December 2, 2004; f) Amendment to Gas Sale and Purchase Contract between BG and PEF, dated as of January 28, 2005; and g) Letter Agreement between FGT and PEF, dated as of January 31, 2005, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K/A filed on March 15, 2005, File Nos. 1-15929 and 1-3274). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)			X		X			
10.35	Engineering, Procurement and Construction Agreement between Duke Energy Florida, Inc. (formerly Florida Power Corporation d/b/a/ Progress Energy Florida, Inc.), as owner, and a consortium consisting of Westinghouse Electric Company LLC and Stone & Webster, Inc., as contractor, for a two-unit AP1000 Nuclear Power Plant, dated as of December 31, 2008, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on March 2, 2009, File Nos. 1-15929 and 1-3274). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)			X		X			
10.36**	Employment Agreement between Duke Energy Corporation and Lynn J. Good, dated as of June 17, 2013, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 18, 2013, File No. 1-32853).	X							
10.36.1**	Amendment to Employment Agreement between Duke Energy Corporation and Lynn J. Good, dated as of June 25, 2015, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 29, 2015, File No. 1-32853).	X							
10.37**	Duke Energy Corporation Executive Short-Term Incentive Plan, effective February 25, 2013, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on May 7, 2013, File No. 1-32853).	X							
10.38**	Duke Energy Corporation 2017 Director Compensation Program Summary (incorporated by reference to Exhibit 10.3 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2017 filed on August 3, 2017, File No. 1-32853).	X							
10.39**	Amended and Restated Duke Energy Corporation Executive Savings Plan, dated as of January 1, 2014, (incorporated by reference to Exhibit 10.82 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2013, filed on February 28, 2014, File No. 1-32853).	X							
10.39.1	Amendment to Duke Energy Corporation Executive Savings Plan, effective as of January 1, 2014 (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2017, filed on November 3, 2017, File No. 1-32853).	X							

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Step 13 2021

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.40	Agreement between Duke Energy SAM, LLC, Duke Energy Ohio, Inc., Duke Energy Commercial Enterprise, Inc. and Dynegy Resource I, LLC, dated as of August 21, 2014, (incorporated by reference to Exhibit 10.61 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2014, filed on March 2, 2015, File No. 1-32853).	X					X		
10.41	Asset Purchase Agreement between Duke Energy Progress, Inc. and North Carolina Eastern Municipal Power Agency, dated as of September 5, 2014, (incorporated by reference to Exhibit 10.62 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2014, filed on March 2, 2015, File No. 1-32853).	X			X				
10.42	Change in Control Agreement between Duke Energy Corporation and Lloyd M. Yates, dated as of April 30, 2014, (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on May 6, 2014, File No. 1-32853).	X							
10.43	Accelerated Stock Repurchase Program executed by Goldman, Sachs & Co., and JPMorgan Chase Bank, N.A. on April 6, 2015, under an agreement with Duke Energy Corporation (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on April 6, 2015, File No. 1-32853).	X							
10.44	Plea Agreement between Duke Energy Corporation and the Court of the Eastern District of North Carolina in connection with the May 14, 2015, Dan River Grand Jury Settlement (incorporated by reference to Exhibit 10.3 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2015, filed on August 7, 2015, File No. 1-32853).	X							
10.45	Plea Agreement between Duke Energy Corporation and the Court of the Eastern District of North Carolina in connection with the May 14, 2015, Dan River Grand Jury Settlement (incorporated by reference to Exhibit 10.4 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2015, filed on August 7, 2015, File No. 1-32853).	X							
10.46	Purchase and Sale Agreement by and among Duke Energy International Group S.à.r.l., Duke Energy International Brazil Holdings S.à.r.l. and China Three Gorges (Luxembourg) Energy S.à.r.l., dated as of October 10, 2016, (incorporated by reference to Exhibit 2.1 to registrant's Current Report on Form 8-K filed on October 13, 2016, File No. 1-32853).	X							
10.47	Purchase and Sale Agreement by and among Duke Energy Brazil Holdings II, C.V., Duke Energy International Uruguay Investments SRL, Duke Energy International Group S.à.r.l., Duke Energy International España Holdings SL, Duke Energy International Investments No. 2 Ltd., ISQ Enerlam Aggregator, L.P., and Enerlam (UK) Holdings Ltd., dated as of October 10, 2016, (incorporated by reference to Exhibit 2.2. to registrant's Current Report on Form 8-K filed on October 13, 2016, File No. 1-32853).	X							
10.48**	Amended and Restated Employment Agreement, dated May 25, 2012, between Piedmont Natural Gas Company, Inc. and Franklin H. Yoho (incorporated by reference to Exhibits 10.1 and 10.2 to Piedmont Natural Gas Company, Inc.'s Quarterly Report on Form 10-Q for the quarter ended July 31, 2012, filed on September 7, 2012, File No. 1-06196).	X							
10.49**	Severance Agreements with Thomas E. Skains and Franklin H. Yoho, dated September 4, 2007, (incorporated by reference to Exhibits 10.2 and 10.2a to Piedmont Natural Gas Company, Inc's Quarterly Report on Form 10-Q for the quarter ended July 31, 2007, filed on September 7, 2007, File No. 1-06196).	X							
10.50**	Piedmont Natural Gas Company, Inc. Incentive Compensation Plan (incorporated by reference to Exhibit 10.64 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).	X							

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Step 13 2021

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.50.1**	First Amendment to Piedmont Natural Gas Company, Inc. Incentive Compensation Plan (incorporated by reference to Exhibit 4.2 to registrant's Registration Statement on Form S-8 filed on October 3, 2016, File No. 1-32853).	X							
10.51**	Waiver of Certain Rights to Terminate for Good Reason between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.66 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).	X							
10.52**	Notice of Non-Renewal of Employment Agreement between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.67 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).	X							
10.53**	Retention Award Agreement, dated as of October 24, 2015, between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.68 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016 filed on February 24, 2017, File No. 1-32853).	X							
*10.54**	Consulting Agreement, dated as of October 4, 2019, between Duke Energy Corporation and Franklin H. Yoho.	X							
10.55	\$1,000,000,000 Credit Agreement, dated as of June 14, 2017, among Duke Energy Corporation, the lenders listed therein, The Bank of Nova Scotia, as Administrative Agent, PNC Bank, National Association, Sumitomo Mitsui Banking Corporation and TD Bank, N.A., as CO-Syndication Agents, and Bank of China, New York Branch, BNP Paribas, Santander Bank, N.A. and U.S. Bank National Association, as Co-Documentation Agents (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on June 14, 2017, File No. 1-32853).	X							
10.56	\$1,000,000,000 Credit Agreement, dated as of May 15, 2019, among Duke Energy Corporation, the Lenders party thereto, The Bank of Nova Scotia, as Administrative Agent, PNC Bank, National Association, Sumitomo Mitsui Banking Corporation and TD Bank, N.A., as Co-Syndication Agents, and Bank of China, New York Branch, BNP Paribas, Santander Bank, N.A., and U.S. Bank National Association, as Co-Documentation Agents (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on May 16, 2019, File No. 1-32853).	X							
10.57	Note Purchase Agreement, dated as of May 6, 2011, among Piedmont Natural Gas Company, Inc. and the Purchasers party thereto (incorporated by reference to Exhibit 10 to registrant's Current Report on Form 8-K filed on May 12, 2011, File No. 1-06196).								X
10.58	Amended and Restated Limited Liability Company Agreement of Constitution Pipeline Company, LLC dated April 9, 2012, by and among Williams Partners Operating LLC and Cabot Pipeline Holdings LLC (incorporated by reference to Exhibit 10.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 2013, filed on March 6, 2013, File No. 1-06196).								X
10.58.1	First Amendment to Amended and Restated Limited Liability Company Agreement of Constitution Pipeline Company, LLC, dated as of November 9, 2012, by and among Constitution Pipeline Company, LLC, Williams Partners Operating LLC, Cabot Pipeline Holdings LLC, and Piedmont Constitution Pipeline Company, LLC (incorporated by reference to Exhibit 10.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 2013, filed on March 6, 2013, File No. 1-06196).								X
10.58.2	Second Amendment to Amended and Restated Limited Liability Company Agreement of Constitution Pipeline Company, LLC, dated as of May 29, 2013, by and among Constitution Pipeline Company, LLC, Williams Partners Operating LLC, Cabot Pipeline Holdings LLC, Piedmont Constitution Pipeline Company, LLC, and Capitol Energy Ventures Corp. (incorporated by reference to Exhibit 99.1 to registrant's Current Report on Form 8-K filed on September 4, 2013, File No. 1-06196).								X

PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
10.59	Second Amended and Restated Limited Liability Company Agreement of SouthStar Energy Services LLC, dated as of September 1, 2013, by and between Georgia Natural Gas Company and Piedmont Energy Company (incorporated by reference to Exhibit 10.39 to registrant's Annual Report on Form 10-K for the year ended October 31, 2013, filed on December 23, 2013, File No. 1-06196).								X
10.60	Limited Liability Company Agreement of Atlantic Coast Pipeline, LLC, dated as of September 2, 2014, by and between Dominion Atlantic Coast Pipeline, LLC, Duke Energy ACP, LLC, Piedmont ACP Company, LLC, and Maple Enterprise Holdings, Inc. (incorporated by reference to Exhibit 10.35 to registrant's Annual Report on Form 10-K for the year ended October 31, 2014, filed on December 23, 2014, File No. 1-06196).								X
10.61	Engineering, Procurement and Construction Agreement between Duke Energy Business Services, LLC, as agent for and on behalf of Piedmont Natural Gas Company Inc. and Matrix Service, Inc., dated as of April 30, 2019 (incorporated by reference to Exhibit 10.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2019, filed on August 6, 2019, File No. 1-06196). (Portions of the exhibit have been omitted for confidentiality.)								X
10.62	Decommissioning Services Agreement between Duke Energy Florida, LLC, and ADP CR3, LLC, and ADP SF1, LLC (incorporated by reference to Exhibit 10.3 to registrants' Quarterly Report on Form 10-Q for the quarter ended June 30, 2019, Filed on August 6, 2019, File No. 2-5293). (Portions of the exhibit have been omitted for confidentiality.)					X			
10.63	Form of Forward Sale Agreement (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on November 8, 2019, File No. 1-32853).	X							
*10.64	Lease Agreement dated as of December 23, 2019, between the registrant and CGA 525 South Tryon TIC 1, LLC, a Delaware limited liability company, CGA 525 South Tryon TIC 2, LLC, a Delaware limited liability company, and CK 525 South Tryon TIC, LLC, a Delaware limited liability company.		X						
*10.65	Construction Agency Agreement dated as of December 23, 2019, between the registrant and CGA 525 South Tryon TIC 1, LLC, a Delaware limited liability company, CGA 525 South Tryon TIC 2, LLC, a Delaware limited liability company, and CK 525 South Tryon TIC, LLC, a Delaware limited liability company.		X						
*21	List of Subsidiaries	X							
*23.1.1	Consent of Independent Registered Public Accounting Firm.	X							
*23.1.2	Consent of Independent Registered Public Accounting Firm.		X						
*23.1.3	Consent of Independent Registered Public Accounting Firm.				X				
*23.1.4	Consent of Independent Registered Public Accounting Firm.					X			
*23.1.5	Consent of Independent Registered Public Accounting Firm.						X		
*23.1.6	Consent of Independent Registered Public Accounting Firm.							X	
*23.1.7	Consent of Independent Registered Public Accounting Firm.								X
*24.1	Power of attorney authorizing Lynn J. Good and others to sign the Annual Report on behalf of the registrant and certain of its directors and officers.	X							
*24.2	Certified copy of resolution of the Board of Directors of the registrant authorizing power of attorney.	X							
*31.1.1	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	X							
*31.1.2	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.		X						

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PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
*31.1.3	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.			X					
*31.1.4	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X				
*31.1.5	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.					X			
*31.1.6	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.						X		
*31.1.7	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.							X	
*31.1.8	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.								X
*31.2.1	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	X							
*31.2.2	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.		X						
*31.2.3	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.			X					
*31.2.4	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X				
*31.2.5	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.					X			
*31.2.6	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.						X		
*31.2.7	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.							X	
*31.2.8	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.								X
*32.1.1	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.	X							
*32.1.2	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.		X						
*32.1.3	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.			X					
*32.1.4	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.				X				
*32.1.5	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.					X			
*32.1.6	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.						X		
*32.1.7	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.							X	
*32.1.8	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.								X
*32.2.1	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.	X							
*32.2.2	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.		X						

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PART IV

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
*32.2.3	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.			X					
*32.2.4	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.				X				
*32.2.5	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.					X			
*32.2.6	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.						X		
*32.2.7	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.							X	
*32.2.8	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.								X
*101.INS	XBRL Instance Document (this does not appear in the Interactive Data File because it's XBRL tags are embedded within the Inline XBRL document).	X	X	X	X	X	X	X	X
*101.SCH	XBRL Taxonomy Extension Schema Document	X	X	X	X	X	X	X	X
*101.CAL	XBRL Taxonomy Calculation Linkbase Document	X	X	X	X	X	X	X	X
*101.LAB	XBRL Taxonomy Label Linkbase Document	X	X	X	X	X	X	X	X
*101.PRE	XBRL Taxonomy Presentation Linkbase Document	X	X	X	X	X	X	X	X
*101.DEF	XBRL Taxonomy Definition Linkbase Document	X	X	X	X	X	X	X	X

The total amount of securities of each respective registrant or its subsidiaries authorized under any instrument with respect to long-term debt not filed as an exhibit does not exceed 10% of the total assets of such registrant and its subsidiaries on a consolidated basis. Each registrant agrees, upon request of the SEC, to furnish copies of any or all of such instruments to it.

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PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrants have duly caused this report to be signed on their behalf by the undersigned, thereunto duly authorized.

Date: February 20, 2020

DUKE ENERGY CORPORATION
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chairman, President and Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chairman, President and Chief Executive Officer (Principal Executive Officer and Director)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:

Michael G. Browning*	William E. Kennard*
Annette K. Clayton*	E. Marie McKee*
Theodore F. Craver, Jr.*	Charles W. Moorman IV*
Robert M. Davis*	Marya M. Rose*
Daniel R. DiMicco*	Carlos A. Saladrigas*
Nicholas C. Fanandakis*	Thomas E. Skains*
Lynn J. Good*	William E. Webster, Jr.*
John T. Herron*	

Steven K. Young, by signing his name hereto, does hereby sign this document on behalf of the registrant and on behalf of each of the above-named persons previously indicated by asterisk (*) pursuant to a power of attorney duly executed by the registrant and such persons, filed with the Securities and Exchange Commission as an exhibit hereto.

By: /s/ STEVEN K. YOUNG
Attorney-In-Fact

Date: February 20, 2020

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PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 20, 2020

DUKE ENERGY CAROLINAS, LLC
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ LYNN J. GOOD
Lynn J. Good
 - /s/ DHIAA M. JAMIL
Dhiala M. Jamil
 - /s/ JULIA S. JANSON
Julia S. Janson

Date: February 20, 2020

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PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 20, 2020

PROGRESS ENERGY, INC.
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
/s/ KODWO GHARTEY-TAGOE
Kodwo Ghartey-Tagoe

/s/ LYNN J. GOOD
Lynn J. Good

Date: February 20, 2020

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PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 20, 2020

DUKE ENERGY PROGRESS, LLC
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ DOUGLAS F ESAMANN
Douglas F Esamann
 - /s/ KODWO GHARTEY-TAGOE
Kodwo Gharthey-Tagoe
 - /s/ LYNN J. GOOD
Lynn J. Good
 - /s/ DHIAA M. JAMIL
Dhiala M. Jamil
 - /s/ JULIA S. JANSON
Julia S. Janson

Date: February 20, 2020

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PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 20, 2020

DUKE ENERGY FLORIDA, LLC
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ DOUGLAS F ESAMANN
Douglas F Esamann
 - /s/ KODWO GHARTEY-TAGOE
Kodwo Gharthey-Tagoe
 - /s/ LYNN J. GOOD
Lynn J. Good
 - /s/ DHIAA M. JAMIL
Dhiaa M. Jamil
 - /s/ JULIA S. JANSON
Julia S. Janson

Date: February 20, 2020

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PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 20, 2020

DUKE ENERGY OHIO, INC.
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ DOUGLAS F ESAMANN
Douglas F Esamann
 - /s/ LYNN J. GOOD
Lynn J. Good
 - /s/ DHIAA M. JAMIL
Dhiala M. Jamil

Date: February 20, 2020

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PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 20, 2020

DUKE ENERGY INDIANA, LLC
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ DOUGLAS F ESAMANN
Douglas F Esamann
 - /s/ KELLEY A. KARN
Kelley A. Karn
 - /s/ STAN PINEGAR
Stan Pinegar

Date: February 20, 2020

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PART IV

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 20, 2020

PIEDMONT NATURAL GAS COMPANY, INC.
(Registrant)

By: /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
 - /s/ DOUGLAS F ESAMANN
Douglas F Esamann
 - /s/ LYNN J. GOOD
Lynn J. Good
 - /s/ DHIAA M. JAMIL
Dhiala M. Jamil

Date: February 20, 2020

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*BUILDING A **SMARTER** ENERGY FUTURE®*

UNITED STATES SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549
FORM 10-K

(Mark One)




ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal period ended December 31, 2020 or



TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____ to _____

Commission file number	Registrant, State of Incorporation or Organization, Address of Principal Executive Offices and Telephone Number	IRS Employer Identification No.
		
1-32853	DUKE ENERGY CORPORATION (a Delaware corporation) 550 South Tryon Street Charlotte, North Carolina 28202-1803 704-382-3853	20-2777218
1-4928	DUKE ENERGY CAROLINAS, LLC (a North Carolina limited liability company) 526 South Church Street Charlotte, North Carolina 28202-1803 704-382-3853	56-0205520
1-15929	PROGRESS ENERGY, INC. (a North Carolina corporation) 410 South Wilmington Street Raleigh, North Carolina 27601-1748 704-382-3853	56-2155481
1-3382	DUKE ENERGY PROGRESS, LLC (a North Carolina limited liability company) 410 South Wilmington Street Raleigh, North Carolina 27601-1748 704-382-3853	56-0165465
1-3274	DUKE ENERGY FLORIDA, LLC (a Florida limited liability company) 299 First Avenue North St. Petersburg, Florida 33701 704-382-3853	59-0247770
1-1232	DUKE ENERGY OHIO, INC. (an Ohio corporation) 139 East Fourth Street Cincinnati, Ohio 45202 704-382-3853	31-0240030
1-3543	DUKE ENERGY INDIANA, LLC (an Indiana limited liability company) 1000 East Main Street Plainfield, Indiana 46168 704-382-3853	35-0594457
1-6196	PIEDMONT NATURAL GAS COMPANY, INC. (a North Carolina corporation) 4720 Piedmont Row Drive Charlotte, North Carolina 28210 704-364-3120	56-0556998

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SECURITIES REGISTERED PURSUANT TO SECTION 12(b) OF THE ACT:

Registrant	Title of each class	Trading symbols	Name of each exchange on which registered
Duke Energy Corporation (Duke Energy)	Common Stock, \$0.001 par value	DUK	New York Stock Exchange LLC
Duke Energy	5.125% Junior Subordinated Debentures due January 15, 2073	DUKH	New York Stock Exchange LLC
Duke Energy	5.625% Junior Subordinated Debentures due September 15, 2078	DUKB	New York Stock Exchange LLC
Duke Energy	Depository Shares, each representing a 1/1,000th interest in a share of 5.75% Series A Cumulative Redeemable Perpetual Preferred Stock, par value \$0.001 per share	DUK PR A	New York Stock Exchange LLC

SECURITIES REGISTERED PURSUANT TO SECTION 12(g) OF THE ACT: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.

Duke Energy	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Duke Energy Florida, LLC (Duke Energy Florida)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Duke Energy Carolinas, LLC (Duke Energy Carolinas)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Duke Energy Ohio, Inc. (Duke Energy Ohio)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Progress Energy, Inc. (Progress Energy)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Duke Energy Indiana, LLC (Duke Energy Indiana)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Duke Energy Progress, LLC (Duke Energy Progress)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Piedmont Natural Gas Company, Inc. (Piedmont)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Exchange Act. Yes ☐ No ☒
(Response applicable to all registrants.)

Indicate by check mark whether the registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes ☒ No ☐

Indicate by check mark whether the registrants have submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes ☒ No ☐

Indicate by check mark whether Duke Energy is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.:

Large Accelerated Filer ☒ Accelerated Filer ☐ Non-accelerated Filer ☐ Smaller Reporting Company ☐ Emerging Growth Company ☐

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether each of Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont is a large accelerated filer, accelerated filer, non-accelerated filer, smaller reporting company, or emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.:

Large Accelerated Filer ☐ Accelerated Filer ☐ Non-accelerated Filer ☒ Smaller Reporting Company ☐ Emerging Growth Company ☐

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7252(b)) by the registered public accounting firm that prepared or issued its audit report. ☒

Indicate by check mark whether each of the registrants is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes ☐ No ☒

Estimated aggregate market value of the common equity held by nonaffiliates of Duke Energy at June 30, 2020. \$ 58,688,204,289
Number of shares of Common Stock, \$0.001 par value, outstanding at January 31, 2021. 768,663,580

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the Duke Energy definitive proxy statement for the 2021 Annual Meeting of the Shareholders or an amendment to this Annual Report are incorporated by reference into PART III, Items 10, 11 and 13 hereof.

This combined Form 10-K is filed separately by eight registrants: Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont (collectively the Duke Energy Registrants). Information contained herein relating to any individual registrant is filed by such registrant solely on its own behalf. Each registrant makes no representation as to information relating exclusively to the other registrants.

Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont meet the conditions set forth in General Instructions I(1)(a) and (b) of Form 10-K and are, therefore, filing this Form 10-K with the reduced disclosure format specified in General Instructions I(2) of Form 10-K.

TABLE OF CONTENTS

TABLE OF CONTENTS

FORM 10-K FOR THE YEAR ENDED December 31, 2020

Item	Page
CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING INFORMATION	
GLOSSARY OF TERMS	
PART I.	
1. BUSINESS	9
DUKE ENERGY	9
GENERAL	9
BUSINESS SEGMENTS	9
EMPLOYEES	21
EXECUTIVE OFFICERS	23
ENVIRONMENTAL MATTERS	23
DUKE ENERGY CAROLINAS	24
PROGRESS ENERGY	24
DUKE ENERGY PROGRESS	24
DUKE ENERGY FLORIDA	24
DUKE ENERGY OHIO	25
DUKE ENERGY INDIANA	25
PIEDMONT	25
1A. RISK FACTORS	25
1B. UNRESOLVED STAFF COMMENTS	34
2. PROPERTIES	35
3. LEGAL PROCEEDINGS	40
4. MINE SAFETY DISCLOSURES	40
PART II.	
5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES	41
6. SELECTED FINANCIAL DATA	41
7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS	42
7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK	74
8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA	75
9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE	243
9A. CONTROLS AND PROCEDURES	243
PART III.	
10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE	245
11. EXECUTIVE COMPENSATION	245
12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS	245
13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE	246
14. PRINCIPAL ACCOUNTING FEES AND SERVICES	246
PART IV.	
15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES	247
EXHIBIT INDEX	E-1
SIGNATURES	E-27

FORWARD LOOKING STATEMENTS

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING INFORMATION

This document includes forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. Forward-looking statements are based on management's beliefs and assumptions and can often be identified by terms and phrases that include "anticipate," "believe," "intend," "estimate," "expect," "continue," "should," "could," "may," "plan," "project," "predict," "will," "potential," "forecast," "target," "guidance," "outlook" or other similar terminology. Various factors may cause actual results to be materially different than the suggested outcomes within forward-looking statements; accordingly, there is no assurance that such results will be realized. These factors include, but are not limited to:

- The impact of the COVID-19 pandemic;
- State, federal and foreign legislative and regulatory initiatives, including costs of compliance with existing and future environmental requirements, including those related to climate change, as well as rulings that affect cost and investment recovery or have an impact on rate structures or market prices;
- The extent and timing of costs and liabilities to comply with federal and state laws, regulations and legal requirements related to coal ash remediation, including amounts for required closure of certain ash impoundments, are uncertain and difficult to estimate;
- The ability to recover eligible costs, including amounts associated with coal ash impoundment retirement obligations and costs related to significant weather events, and to earn an adequate return on investment through rate case proceedings and the regulatory process;
- The costs of decommissioning nuclear facilities could prove to be more extensive than amounts estimated and all costs may not be fully recoverable through the regulatory process;
- Costs and effects of legal and administrative proceedings, settlements, investigations and claims;
- Industrial, commercial and residential growth or decline in service territories or customer bases resulting from sustained downturns of the economy and the economic health of our service territories or variations in customer usage patterns, including energy efficiency efforts and use of alternative energy sources, such as self-generation and distributed generation technologies;
- Federal and state regulations, laws and other efforts designed to promote and expand the use of energy efficiency measures and distributed generation technologies, such as private solar and battery storage, in Duke Energy service territories could result in customers leaving the electric distribution system, excess generation resources as well as stranded costs;
- Advancements in technology;
- Additional competition in electric and natural gas markets and continued industry consolidation;
- The influence of weather and other natural phenomena on operations, including the economic, operational and other effects of severe storms, hurricanes, droughts, earthquakes and tornadoes, including extreme weather associated with climate change;
- Changing customer expectations and demands including heightened emphasis on environmental, social and governance concerns;
- The ability to successfully operate electric generating facilities and deliver electricity to customers including direct or indirect effects to the company resulting from an incident that affects the United States electric grid or generating resources;
- Operational interruptions to our natural gas distribution and transmission activities;
- The availability of adequate interstate pipeline transportation capacity and natural gas supply;
- The impact on facilities and business from a terrorist attack, cybersecurity threats, data security breaches, operational accidents, information technology failures or other catastrophic events, such as fires, explosions, pandemic health events or other similar occurrences;
- The inherent risks associated with the operation of nuclear facilities, including environmental, health, safety, regulatory and financial risks, including the financial stability of third-party service providers;
- The timing and extent of changes in commodity prices and interest rates and the ability to recover such costs through the regulatory process, where appropriate, and their impact on liquidity positions and the value of underlying assets;
- The results of financing efforts, including the ability to obtain financing on favorable terms, which can be affected by various factors, including credit ratings, interest rate fluctuations, compliance with debt covenants and conditions and general market and economic conditions;
- Credit ratings of the Duke Energy Registrants may be different from what is expected;
- Declines in the market prices of equity and fixed-income securities and resultant cash funding requirements for defined benefit pension plans, other post-retirement benefit plans and nuclear decommissioning trust funds;
- Construction and development risks associated with the completion of the Duke Energy Registrants' capital investment projects, including risks related to financing, obtaining and complying with terms of permits, meeting construction budgets and schedules and satisfying operating and environmental performance standards, as well as the ability to recover costs from customers in a timely manner, or at all;
- Changes in rules for regional transmission organizations, including changes in rate designs and new and evolving capacity markets, and risks related to obligations created by the default of other participants;
- The ability to control operation and maintenance costs;
- The level of creditworthiness of counterparties to transactions;
- The ability to obtain adequate insurance at acceptable costs;

FORWARD LOOKING STATEMENTS

- Employee workforce factors, including the potential inability to attract and retain key personnel;
- The ability of subsidiaries to pay dividends or distributions to Duke Energy Corporation holding company (the Parent);
- The performance of projects undertaken by our nonregulated businesses and the success of efforts to invest in and develop new opportunities;
- The effect of accounting pronouncements issued periodically by accounting standard-setting bodies;
- The impact of United States tax legislation to our financial condition, results of operations or cash flows and our credit ratings;
- The impacts from potential impairments of goodwill or equity method investment carrying values; and
- The ability to implement our business strategy, including enhancing existing technology systems.

Additional risks and uncertainties are identified and discussed in the Duke Energy Registrants' reports filed with the SEC and available at the SEC's website at sec.gov. In light of these risks, uncertainties and assumptions, the events described in the forward-looking statements might not occur or might occur to a different extent or at a different time than described. Forward-looking statements speak only as of the date they are made and the Duke Energy Registrants expressly disclaim an obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

Glossary of Terms

The following terms or acronyms used in this Form 10-K are defined below:

Term or Acronym	Definition
2013 Settlement	Revised and Restated Stipulation and Settlement Agreement approved in November 2013 among Duke Energy Florida, the Florida Office of Public Counsel and other customer advocates
2017 Settlement	Second Revised and Restated Settlement Agreement in 2017 among Duke Energy Florida, the Florida Office of Public Counsel and other customer advocates, which replaces and supplants the 2013 Settlement
ACE	Affordable Clean Energy
ACP	Atlantic Coast Pipeline, LLC, a limited liability company owned by Dominion, Duke Energy and Southern Company Gas
ACP pipeline	The approximately 600-mile canceled interstate natural gas pipeline
AFUDC	Allowance for funds used during construction
AFS	Available for Sale
AMI	Advanced Metering Infrastructure
AMT	Alternative Minimum Tax
AOCI	Accumulated Other Comprehensive Income (Loss)
ARO	Asset Retirement Obligation
ATM	At-the-market
Audit Committee	Audit Committee of the Board of Directors
Beckjord	Beckjord Generating Station
Belews Creek	Belews Creek Steam Station
Bison	Bison Insurance Company Limited
Board of Directors	Duke Energy Board of Directors
Brunswick	Brunswick Nuclear Plant
Cardinal	Cardinal Pipeline Company, LLC
Catawba	Catawba Nuclear Station
CC	Combined Cycle
CCR	Coal Combustion Residuals
Cinergy	Cinergy Corp. (collectively with its subsidiaries)
Citrus County CC	Citrus County Combined Cycle Facility
CO ₂	Carbon Dioxide
Coal Ash Act	North Carolina Coal Ash Management Act of 2014
the Company	Duke Energy Corporation and its subsidiaries
Constitution	Constitution Pipeline Company, LLC
CPCN	Certificate of Public Convenience and Necessity
CRC	Cinergy Receivables Company LLC
Crystal River Unit 3	Crystal River Unit 3 Nuclear Plant
CT	Combustion Turbine
CWA	Clean Water Act
DATC	Duke-American Transmission Company, LLC
D.C. Circuit Court	U.S. Court of Appeals for the District of Columbia

DEFR	Duke Energy Florida Receivables, LLC
Deloitte	Deloitte & Touche LLP, and the member firms of Deloitte Touche Tohmatsu and their respective affiliates
DEPR	Duke Energy Progress Receivables, LLC
DERF	Duke Energy Receivables Finance Company, LLC
DOE	U.S. Department of Energy
Dominion	Dominion Energy, Inc.
Dth	Dekatherms
Duke Energy	Duke Energy Corporation (collectively with its subsidiaries)
Duke Energy Carolinas	Duke Energy Carolinas, LLC
Duke Energy Florida	Duke Energy Florida, LLC
Duke Energy Indiana	Duke Energy Indiana, LLC
Duke Energy Kentucky	Duke Energy Kentucky, Inc.
Duke Energy Ohio	Duke Energy Ohio, Inc.
Duke Energy Progress	Duke Energy Progress, LLC
Duke Energy Registrants	Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont
East Bend	East Bend Generating Station
EE	Energy efficiency
EPA	U.S. Environmental Protection Agency
EPC	Engineering, Procurement and Construction agreement
EPS	Earnings Per Share
ETR	Effective tax rate
Exchange Act	Securities Exchange Act of 1934
FASB	Financial Accounting Standards Board
FERC	Federal Energy Regulatory Commission
FES	FirstEnergy Solutions Corp.
Form S-3	Registration statement
FPSC	Florida Public Service Commission
FTR	Financial transmission rights
FV-NI	Fair value through net income
GAAP	Generally Accepted Accounting Principles in the United States
GAAP Reported EPS	Basic EPS Available to Duke Energy Corporation common stockholders
GHG	Greenhouse Gas
GIC	GIC Private Limited
GWh	Gigawatt-hour
Hardy Storage	Hardy Storage Company, LLC
Harris	Shearon Harris Nuclear Plant
HLBV	Hypothetical Liquidation at Book Value
IGCC	Integrated Gasification Combined Cycle

IMPA	Indiana Municipal Power Agency
IMR	Integrity Management Rider
IRP	Integrated Resource Plans
IRS	Internal Revenue Service
ISO	Independent System Operator
ITC	Investment Tax Credit
IURC	Indiana Utility Regulatory Commission
Investment Trusts	Grantor trusts of Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana
KO Transmission	KO Transmission Company
KPSC	Kentucky Public Service Commission
LIBOR	London Interbank Offered Rate
LLC	Limited Liability Company
McGuire	McGuire Nuclear Station
MGP	Manufactured gas plant
MISO	Midcontinent Independent System Operator, Inc.
MMBtu	Million British Thermal Unit
MTBE	Methyl tertiary butyl ether
MW	Megawatt
MWh	Megawatt-hour
NCDEQ	North Carolina Department of Environmental Quality
NCEMC	North Carolina Electric Membership Corporation
NCEMPA	North Carolina Eastern Municipal Power Agency
NCUC	North Carolina Utilities Commission
NDTF	Nuclear decommissioning trust funds
New Source Review	Clean Air Act program that requires industrial facilities to install modern pollution control equipment when they are built or when making a change that increases emissions significantly
NMC	National Methanol Company
NOL	Net operating loss
NPNS	Normal purchase/normal sale
NRC	U.S. Nuclear Regulatory Commission
NYSE	New York Stock Exchange
Oconee	Oconee Nuclear Station
OPEB	Other Post-Retirement Benefit Obligations
ORS	Office of Regulatory Staff
OTTI	Other-than-temporary impairment
OVEC	Ohio Valley Electric Corporation
the Parent	Duke Energy Corporation holding company
PGA	Purchased Gas Adjustments
PHMSA	Pipeline and Hazardous Materials Safety Administration

Piedmont	Piedmont Natural Gas Company, Inc.
Pine Needle	Pine Needle LNG Company, LLC
Pioneer	Pioneer Transmission, LLC
PJM	PJM Interconnection, LLC
PMPA	Piedmont Municipal Power Agency
PISCC	Post-in-service carrying costs
PPA	Purchase Power Agreement
Progress Energy	Progress Energy, Inc.
PSCSC	Public Service Commission of South Carolina
PTC	Production Tax Credits
PUCO	Public Utilities Commission of Ohio
PURPA	Public Utility Regulatory Policies Act of 1978
QF	Qualifying Facility
REC	Renewable Energy Certificate
Relative TSR	TSR of Duke Energy stock relative to a predefined peer group
Robinson	Robinson Nuclear Plant
ROU	Right-of-use
RSU	Restricted Stock Unit
RTO	Regional Transmission Organization
Sabal Trail	Sabal Trail Transmission, LLC
SAFSTOR	A method of decommissioning in which a nuclear facility is placed and maintained in a condition that allows the facility to be safely stored and subsequently decontaminated to levels that permit release for unrestricted use
SEC	Securities and Exchange Commission
SELC	Southern Environmental Law Center
Spectra Capital	Spectra Energy Capital, LLC
S&P	Standard & Poor's Rating Services
State utility commissions	NCUC, PSCSC, FPSC, PUCO, IURC, KPSC and TPUC (Collectively)
State electric utility commissions	NCUC, PSCSC, FPSC, PUCO, IURC and KPSC (Collectively)
State gas utility commissions	NCUC, PSCSC, PUCO, TPUC and KPSC (Collectively)
Subsidiary Registrants	Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont
Sutton	L.V. Sutton Combined Cycle Plant
the Tax Act	Tax Cuts and Jobs Act
TPUC	Tennessee Public Utility Commission
TSR	Total shareholder return
U.S.	United States
VIE	Variable Interest Entity
WACC	Weighted Average Cost of Capital
W.S. Lee CC	William States Lee Combined Cycle Facility
WVPA	Wabash Valley Power Association, Inc.

BUSINESS

ITEM 1. BUSINESS

DUKE ENERGY

General

Duke Energy was incorporated on May 3, 2005, and is an energy company headquartered in Charlotte, North Carolina, subject to regulation by the FERC and other regulatory agencies listed below. Duke Energy operates in the U.S. primarily through its direct and indirect subsidiaries. Certain Duke Energy subsidiaries are also Subsidiary Registrants, including Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont. When discussing Duke Energy's consolidated financial information, it necessarily includes the results of its separate Subsidiary Registrants, which along with Duke Energy, are collectively referred to as the Duke Energy Registrants.

The Duke Energy Registrants electronically file reports with the SEC, including Annual Reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, proxy statements and amendments to such reports.

The SEC maintains an internet site that contains reports, proxy and information statements and other information regarding issuers that file electronically with the SEC at sec.gov. Additionally, information about the Duke Energy Registrants, including reports filed with the SEC, is available through Duke Energy's website at duke-energy.com. Such reports are accessible at no charge and are made available as soon as reasonably practicable after such material is filed with or furnished to the SEC.

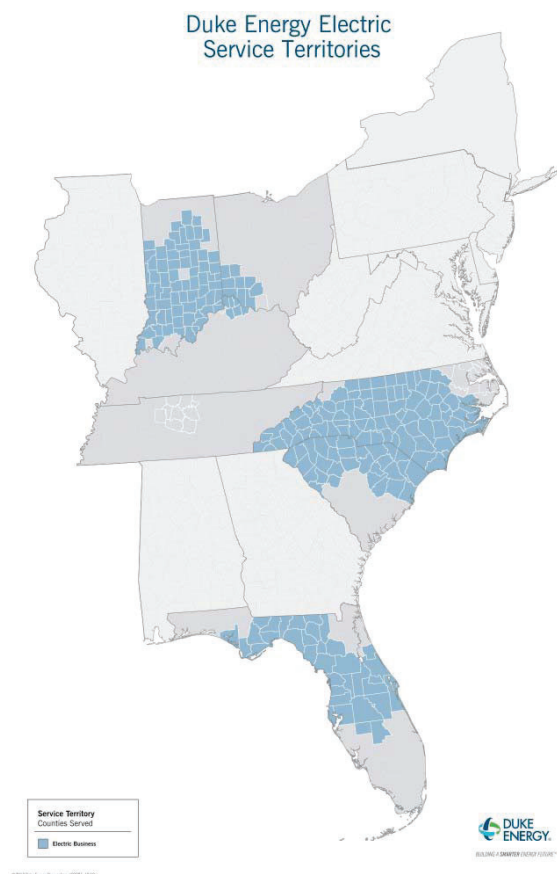
Business Segments

Duke Energy's segment structure includes three reportable business segments: Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables. The remainder of Duke Energy's operations is presented as Other. Duke Energy's chief operating decision-maker routinely reviews financial information about each of these business segments in deciding how to allocate resources and evaluate the performance of the business. For additional information on each of these business segments, including financial and geographic information, see Note 2 to the Consolidated Financial Statements, "Business Segments." The following sections describe the business and operations of each of Duke Energy's business segments, as well as Other.

ELECTRIC UTILITIES AND INFRASTRUCTURE

Electric Utilities and Infrastructure conducts operations primarily through the regulated public utilities of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida, Duke Energy Indiana and Duke Energy Ohio. Electric Utilities and Infrastructure provides retail electric service through the generation, transmission, distribution and sale of electricity to approximately 7.9 million customers within the Southeast and Midwest regions of the U.S. The service territory is approximately 91,000 square miles across six states with a total estimated population of 25 million people. The operations include electricity sold wholesale to municipalities, electric cooperative utilities and other load-serving entities. Electric Utilities and Infrastructure is also a joint owner in certain electric transmission projects. Electric Utilities and Infrastructure has a 50% ownership interest in DATC, a partnership with American Transmission Company, formed to design, build and operate transmission infrastructure. DATC owns 72% of the transmission service rights to Path 15, an 84-mile transmission line in central California. Electric Utilities and Infrastructure also has a 50% ownership interest in Pioneer, which builds, owns and operates electric transmission facilities in North America. The following map shows the service territory for Electric Utilities and Infrastructure as of December 31, 2020.

BUSINESS



The electric operations and investments in projects are subject to the rules and regulations of the FERC, the NRC, the NCUC, the PSCSC, the FPSC, the IURC, the PUCO and the KPSC.

The following table represents the distribution of GWh billed sales by customer class for the year ended December 31, 2020.

	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Residential	33 %	27 %	51 %	38 %	30 %
General service	33 %	22 %	35 %	37 %	25 %
Industrial	23 %	16 %	7 %	23 %	31 %
Total retail sales	89 %	65 %	93 %	98 %	86 %
Wholesale and other sales	11 %	35 %	7 %	2 %	14 %
Total sales	100 %	100 %	100 %	100 %	100 %

The number of residential and general service customers within the Electric Utilities and Infrastructure service territory is expected to increase over time. Sales growth is expected within the service territory but continues to be influenced by adoption of energy efficiencies and self-generation. Residential sales increased in 2020 compared to 2019 due to customer growth and the stay-at-home orders as a result of the COVID-19 pandemic. Meanwhile, sales for general service and industrial customers decreased in 2020 due to the impacts of the COVID-19 pandemic. These trends in residential, general service and industrial sales may continue in the short term but are not expected to be permanent. It is still expected that the continued adoption of more efficient housing and appliances will have a negative impact on average usage per residential customer over time.

Seasonality and the Impact of Weather

Revenues and costs are influenced by seasonal weather patterns. Peak sales of electricity occur during the summer and winter months, which results in higher revenue and cash flows during these periods. By contrast, lower sales of electricity occur during the spring and fall, allowing for scheduled plant maintenance. Residential and general service customers are more impacted by weather than industrial customers. Estimated weather impacts are based on actual current period weather compared to normal weather conditions. Normal weather conditions are defined as the long-term average of actual historical weather conditions.

BUSINESS

The estimated impact of weather on earnings is based on the temperature variances from a normal condition and customers' historic usage patterns. The methodology used to estimate the impact of weather does not consider all variables that may impact customer response to weather conditions such as humidity in the summer or wind chill in the winter. The precision of this estimate may also be impacted by applying long-term weather trends to shorter-term periods.

Heating degree days measure the variation in weather based on the extent the average daily temperature falls below a base temperature. Cooling degree days measure the variation in weather based on the extent the average daily temperature rises above the base temperature. Each degree of temperature below the base temperature counts as one heating degree day and each degree of temperature above the base temperature counts as one cooling degree day.

Competition

Retail

Electric Utilities and Infrastructure's businesses operate as the sole supplier of electricity within their service territories, with the exception of Ohio, which has a competitive electricity supply market for generation service. Electric Utilities and Infrastructure owns and operates facilities necessary to generate, transmit, distribute and sell electricity. Services are priced by state commission-approved rates designed to include the costs of providing these services and a reasonable return on invested capital. This regulatory policy is intended to provide safe and reliable electricity at fair prices.

In Ohio, Electric Utilities and Infrastructure conducts competitive auctions for electricity supply. The cost of energy purchased through these auctions is recovered from retail customers. Electric Utilities and Infrastructure earns retail margin in Ohio on the transmission and distribution of electricity, but not on the cost of the underlying energy.

Competition in the regulated electric distribution business is primarily from the development and deployment of alternative energy sources including on-site generation from industrial customers and distributed generation, such as private solar, at residential, general service and/or industrial customer sites.

Wholesale

Duke Energy competes with other utilities and merchant generators for bulk power sales, sales to municipalities and cooperatives and wholesale transactions under primarily cost-based contracts approved by FERC. The principal factors in competing for these sales are availability of capacity and power, reliability of service and price. Prices are influenced primarily by market conditions and fuel costs.

Increased competition in the wholesale electric utility industry and the availability of transmission access could affect Electric Utilities and Infrastructure's load forecasts, plans for power supply and wholesale energy sales and related revenues. Wholesale energy sales will be impacted by the extent to which additional generation is available to sell to the wholesale market and the ability of Electric Utilities and Infrastructure to attract new customers and to retain existing customers.

Energy Capacity and Resources

Electric Utilities and Infrastructure owns approximately 50,807 MW of generation capacity. For additional information on owned generation facilities, see Item 2, "Properties."

Energy and capacity are also supplied through contracts with other generators and purchased on the open market. Factors that could cause Electric Utilities and Infrastructure to purchase power for its customers may include, but are not limited to, generating plant outages, extreme weather conditions, generation reliability, demand growth and price. Electric Utilities and Infrastructure has interconnections and arrangements with its neighboring utilities to facilitate planning, emergency assistance, sale and purchase of capacity and energy and reliability of power supply.

Electric Utilities and Infrastructure's generation portfolio is a balanced mix of energy resources having different operating characteristics and fuel sources designed to provide energy at the lowest possible cost to meet its obligation to serve retail customers. All options, including owned generation resources and purchased power opportunities, are continually evaluated on a real-time basis to select and dispatch the lowest-cost resources available to meet system load requirements.

BUSINESS

Sources of Electricity

Electric Utilities and Infrastructure relies principally on natural gas, nuclear fuel and coal for its generation of electricity. The following table lists sources of electricity and fuel costs for the three years ended December 31, 2020.

	Generation by Source			Cost of Delivered Fuel per Net Kilowatt-hour Generated (Cents)		
	2020	2019	2018	2020	2019	2018
Natural gas and oil ^(a)	31.3 %	29.2 %	26.2 %	2.55	2.96	3.57
Nuclear ^(a)	29.6 %	28.6 %	26.0 %	0.58	0.60	0.50
Coal ^(a)	18.1 %	21.6 %	24.4 %	2.99	3.08	2.82
All fuels (cost-based on weighted average) ^(a)	79.0 %	79.4 %	76.6 %	1.91	2.14	2.29
Hydroelectric and solar ^(b)	1.9 %	1.2 %	1.3 %			
Total generation	80.9 %	80.6 %	77.9 %			
Purchased power and net interchange	19.1 %	19.4 %	22.1 %			
Total sources of energy	100.0 %	100.0 %	100.0 %			

- (a) Statistics related to all fuels reflect Electric Utilities and Infrastructure's ownership interest in jointly owned generation facilities.
(b) Generating figures are net of output required to replenish pumped storage facilities during off-peak periods.

Natural Gas and Fuel Oil

Natural gas and fuel oil supply, transportation and storage for Electric Utilities and Infrastructure's generation fleet is purchased under standard industry agreements from various suppliers, including Piedmont. Natural gas supply agreements typically provide for a percentage of forecasted burns being procured over time, with varied expiration dates. Electric Utilities and Infrastructure believes it has access to an adequate supply of natural gas and fuel oil for the reasonably foreseeable future.

Electric Utilities and Infrastructure has certain dual-fuel generating facilities that can operate utilizing both natural gas and fuel oil. The cost of Electric Utilities and Infrastructure's natural gas and fuel oil is fixed price or determined by published market prices as reported in certain industry publications, plus any transportation and freight costs. Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana use derivative instruments to manage a portion of their exposure to price fluctuations for natural gas. For Duke Energy Florida, there is currently an agreed to moratorium with the FPSC on future hedging of natural gas prices.

Electric Utilities and Infrastructure has firm interstate and intrastate natural gas transportation agreements and storage agreements in place to support generation needed for load requirements. Electric Utilities and Infrastructure may purchase additional shorter-term natural gas transportation and utilize natural gas interruptible transportation agreements to support generation needed for load requirements. The Electric Utilities and Infrastructure natural gas plants are served by various supply zones and multiple pipelines.

Nuclear

The industrial processes for producing nuclear generating fuel generally involve the mining and milling of uranium ore to produce uranium concentrates and services to convert, enrich and fabricate fuel assemblies.

Electric Utilities and Infrastructure has contracted for uranium materials and services to fuel its nuclear reactors. Uranium concentrates, conversion services and enrichment services are primarily met through a diversified portfolio of long-term supply contracts. The contracts are diversified by supplier, country of origin and pricing. Electric Utilities and Infrastructure staggers its contracting so that its portfolio of long-term contracts covers the majority of its fuel requirements in the near term and decreasing portions of its fuel requirements over time thereafter. Near-term requirements not met by long-term supply contracts have been and are expected to be fulfilled with spot market purchases. Due to the technical complexities of changing suppliers of fuel fabrication services, Electric Utilities and Infrastructure generally source these services to a single domestic supplier on a plant-by-plant basis using multiyear contracts.

Electric Utilities and Infrastructure has entered into fuel contracts that cover 100% of its uranium concentrates and conversion services through at least 2021, 100% of its enrichment services through at least 2022, and 100% of its fabrication services requirements for these plants through at least 2027. For future requirements not already covered under long-term contracts, Electric Utilities and Infrastructure believes it will be able to renew contracts as they expire or enter into similar contractual arrangements with other suppliers of nuclear fuel materials and services.

Coal

Electric Utilities and Infrastructure meets its coal demand through a portfolio of long-term purchase contracts and short-term spot market purchase agreements. Large amounts of coal are purchased under long-term contracts with mining operators who mine both underground and at the surface. Electric Utilities and Infrastructure uses spot market purchases to meet coal requirements not met by long-term contracts. Expiration dates for its long-term contracts, which may have various price adjustment provisions and market reopeners, range from 2021 to 2023 for Duke Energy Carolinas and Duke Energy Progress and 2021 to 2025 for Duke Energy Indiana. Expiration dates for Duke Energy Florida and Duke Energy Ohio are in 2021. Electric Utilities and Infrastructure expects to renew these contracts or enter into similar contracts with other suppliers as existing contracts expire, though prices will fluctuate over time as coal markets change. Electric Utilities and Infrastructure has an adequate supply of coal under contract to meet its risk management guidelines regarding projected future consumption. As a result of volatility in natural gas prices and the associated impacts on coal-fired dispatch within the generation fleet, coal inventories will continue to fluctuate. Electric Utilities and Infrastructure continues to actively manage its portfolio and has worked with suppliers to obtain increased flexibility in its coal contracts.

BUSINESS

Coal purchased for the Carolinas is primarily produced from mines in Central Appalachia, Northern Appalachia and the Illinois Basin. Coal purchased for Florida is primarily produced from mines in the Illinois Basin. Coal purchased for Kentucky is produced from mines along the Ohio River in Illinois, Ohio, West Virginia and Pennsylvania. Coal purchased for Indiana is primarily produced in Indiana and Illinois. There are adequate domestic coal reserves to serve Electric Utilities and Infrastructure's coal generation needs through end of life. The current average sulfur content of coal purchased by Electric Utilities and Infrastructure is between 1.5% and 2% for Duke Energy Carolinas and Duke Energy Progress, and between 2.5% and 3% for Duke Energy Florida, Duke Energy Ohio and Duke Energy Indiana. Electric Utilities and Infrastructure's environmental controls, in combination with the use of sulfur dioxide (SO₂) emission allowances, enable Electric Utilities and Infrastructure to satisfy current SO₂ emission limitations for its existing facilities.

Purchased Power

Electric Utilities and Infrastructure purchases a portion of its capacity and system requirements through purchase obligations, leases and purchase capacity contracts. Electric Utilities and Infrastructure believes it can obtain adequate purchased power capacity to meet future system load needs. However, during periods of high demand, the price and availability of purchased power may be significantly affected.

The following table summarizes purchased power for the previous three years:

	2020	2019	2018
Purchase obligations and leases (in millions of MWh) ^(a)	32.7	34.8	21.3
Purchase capacity under contract (in MW) ^(b)	4,716	4,238	4,025

(a) Represents approximately 13% of total system requirements for 2020, 14% for 2019 and 7% for 2018.

(b) For 2020, 2019 and 2018, these agreements include approximately 412 MW of firm capacity under contract by Duke Energy Florida with QFs.

Inventory

Electric Utilities and Infrastructure must maintain an adequate stock of fuel and materials and supplies in order to ensure continuous operation of generating facilities and reliable delivery to customers. As of December 31, 2020, the inventory balance for Electric Utilities and Infrastructure was approximately \$3 billion. For additional information on inventory, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

Ash Basin Management

During 2015, EPA issued regulations related to the management of CCR from power plants. These regulations classify CCR as nonhazardous waste under the Resource Conservation and Recovery Act (RCRA) and apply to electric generating sites with new and existing landfills and new and existing surface impoundments and establishes requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring, protection and remedial procedures and other operational and reporting procedures for the disposal and management of CCR. In addition to the federal regulations, CCR landfills and surface impoundments (ash basins or impoundments) will continue to be regulated by existing state laws, regulations and permits, such as the Coal Ash Management Act in North Carolina.

Electric Utilities and Infrastructure has and will periodically submit to applicable authorities required site-specific coal ash impoundment remediation or closure plans. Closure plans and all associated permits will receive necessary approvals before any work can begin. Closure activities have begun in all of Duke Energy's jurisdictions. Excavation began in 2015 at the four sites specified as high priority by the NC Coal Ash Management Act and at the W.S. Lee Steam Station site in South Carolina in connection with other legal requirements. Excavation at these sites involves movement of CCR materials to off-site locations for use as structural fill, to appropriate engineered off-site or on-site lined landfills or for reuse in an approved beneficial application. Duke Energy has completed excavation of coal ash at three of the four high-priority NC sites. At other sites where CCR management is required, planning and closure methods have been studied and factored into the estimated retirement and management costs, and closure activities have commenced.

The EPA CCR rule and the NC Coal Ash Management Act leave the decision on cost recovery determinations related to closure of coal ash surface impoundments to the normal ratemaking processes before utility regulatory commissions. Duke Energy's electric utilities have included compliance costs associated with federal and state requirements in their respective rate proceedings. In January 2021, Duke Energy Carolinas and Duke Energy Progress reached a settlement agreement on recovery of coal ash costs, which is subject to review and approval of the NCUC. During 2017, Duke Energy Carolinas' and Duke Energy Progress' wholesale contracts were amended to include the recovery of expenditures related to AROs for the closure of coal ash basins. The amended contracts have retail disallowance parity or provisions limiting challenges to CCR cost recovery actions at FERC. FERC approved the amended wholesale rate schedules in 2017. For additional information on the ash basins and recovery, see Item 7, "Other Matters" and Notes 3, 4 and 9 to the Consolidated Financial Statements, "Regulatory Matters," "Commitments and Contingencies" and "Asset Retirement Obligations," respectively.

Nuclear Matters

Duke Energy owns, wholly or partially, 11 operating nuclear reactors located at six operating stations. The Crystal River Unit 3 permanently ceased operation in February 2013. Nuclear insurance includes: nuclear liability coverage; property damage coverage; nuclear accident decontamination and premature decommissioning coverage; and accidental outage coverage for losses in the event of a major accidental outage. Joint owners reimburse Duke Energy for certain expenses associated with nuclear insurance in accordance with joint owner agreements. The Price-Anderson Act requires plant owners to provide for public nuclear liability claims resulting from nuclear incidents to the maximum total financial protection liability, which is approximately \$13.8 billion. For additional information on nuclear insurance, see Note 4 to the Consolidated Financial Statements, "Commitments and Contingencies."

BUSINESS

Duke Energy has a significant future financial commitment to dispose of spent nuclear fuel and decommission and decontaminate each plant safely. The NCUC, PSCSC and FPSC require Duke Energy to update their cost estimates for decommissioning their nuclear plants every five years.

The following table summarizes the fair value of NDTF investments and the most recent site-specific nuclear decommissioning cost studies. Decommissioning costs are stated in 2018 or 2019 dollars, depending on the year of the cost study, and include costs to decommission plant components not subject to radioactive contamination.

(in millions)	NDTF ^(a)		Decommissioning	
	December 31, 2020	December 31, 2019	Costs ^(a)	Year of Cost Study
Duke Energy	\$ 9,114	\$ 8,140	\$ 9,105	2018 or 2019
Duke Energy Carolinas ^{(b)(c)}	4,977	4,359	4,365	2018
Duke Energy Progress ^(d)	3,500	3,047	4,181	2019
Duke Energy Florida ^(e)	637	734	559	N/A

- (a) Amounts for Progress Energy equal the sum of Duke Energy Progress and Duke Energy Florida.
- (b) Decommissioning cost for Duke Energy Carolinas reflects its ownership interest in jointly owned reactors. Other joint owners are responsible for decommissioning costs related to their interest in the reactors.
- (c) Duke Energy Carolinas' site-specific nuclear decommissioning cost study completed in 2018 was filed with the NCUC and PSCSC in 2019. A new funding study was also completed and filed with the NCUC and PSCSC in 2019.
- (d) Duke Energy Progress' site-specific nuclear decommissioning cost study completed in 2019 was filed with the NCUC and PSCSC in March 2020. Duke Energy Progress also completed a funding study, which was filed with the NCUC and PSCSC in July 2020.
- (e) During 2019, Duke Energy Florida reached an agreement to transfer decommissioning work for Crystal River Unit 3 to a third party and decommissioning costs are based on the agreement with this third party rather than a cost study. Regulatory approval was received from the NRC and the FPSC in April 2020 and August 2020, respectively. See Note 3 for more information.

The NCUC, PSCSC, FPSC and FERC have allowed Electric Utilities and Infrastructure to recover estimated decommissioning costs through retail and wholesale rates over the expected remaining service periods of their nuclear stations. Electric Utilities and Infrastructure believes the decommissioning costs being recovered through rates, when coupled with the existing fund balances and expected fund earnings, will be sufficient to provide for the cost of future decommissioning. For additional information, see Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations."

The Nuclear Waste Policy Act of 1982 (as amended) provides the framework for development by the federal government of interim storage and permanent disposal facilities for high-level radioactive waste materials. The government has not yet developed a storage facility or disposal capacity, so Electric Utilities and Infrastructure will continue to store spent fuel on its reactor sites.

Under federal law, the DOE is responsible for the selection and construction of a facility for the permanent disposal of spent nuclear fuel and high-level radioactive waste. The DOE terminated the project to license and develop a geologic repository at Yucca Mountain, Nevada in 2010, and is currently taking no action to fulfill its responsibilities to dispose of spent fuel.

Until the DOE begins to accept the spent nuclear fuel, Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida will continue to safely manage their spent nuclear fuel. Under current regulatory guidelines, Harris has sufficient storage capacity in its spent fuel pools through the expiration of its renewed operating license. With certain modifications and approvals by the NRC to expand the on-site dry cask storage facilities, spent nuclear fuel dry storage facilities will be sufficient to provide storage space of spent fuel through the expiration of the operating licenses, including any license renewals, for Brunswick, Catawba, McGuire, Oconee and Robinson. Crystal River Unit 3 ceased operation in 2013 and was placed in a SAFSTOR condition in January 2018. As of January 2018, all spent fuel at Crystal River Unit 3 has been transferred from the spent fuel pool to dry storage at an on-site independent spent fuel storage installation. During 2020, the NRC and the FPSC approved an agreement to transfer ownership of spent fuel for Crystal River Unit 3 to a third party. See Note 3 for more information.

The nuclear power industry faces uncertainties with respect to the cost and long-term availability of disposal sites for spent nuclear fuel and other radioactive waste, compliance with changing regulatory requirements, capital outlays for modifications and new plant construction.

BUSINESS

Electric Utilities and Infrastructure is subject to the jurisdiction of the NRC for the design, construction and operation of its nuclear generating facilities. The following table includes the current year of expiration of nuclear operating licenses for nuclear stations in operation. During 2019, Duke Energy announced its intention to seek 20-year operating license renewals for each of the reactors it operates in Duke Energy Carolinas and Duke Energy Progress.

Unit	Year of Expiration
Duke Energy Carolinas	
Catawba Units 1 and 2	2043
McGuire Unit 1	2041
McGuire Unit 2	2043
Oconee Units 1 and 2	2033
Oconee Unit 3	2034
Duke Energy Progress	
Brunswick Unit 1	2036
Brunswick Unit 2	2034
Harris	2046
Robinson	2030

The NRC has acknowledged permanent cessation of operation and permanent removal of fuel from the reactor vessel at Crystal River Unit 3. Therefore, the license no longer authorizes operation of the reactor. For additional information on nuclear decommissioning activity, see Notes 3 and 9 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively.

Regulation

State

The state electric utility commissions approve rates for Duke Energy's retail electric service within their respective states. The state electric utility commissions, to varying degrees, have authority over the construction and operation of Electric Utilities and Infrastructure's generating facilities. CPCNs issued by the state electric utility commissions, as applicable, authorize Electric Utilities and Infrastructure to construct and operate its electric facilities and to sell electricity to retail and wholesale customers. Prior approval from the relevant state electric utility commission is required for the entities within Electric Utilities and Infrastructure to issue securities. The underlying concept of utility ratemaking is to set rates at a level that allows the utility to collect revenues equal to its cost of providing service plus earn a reasonable rate of return on its invested capital, including equity.

In addition to rates approved in base rate cases, each of the state electric utility commissions allow recovery of certain costs through various cost-recovery clauses to the extent the respective commission determines in periodic hearings that such costs, including any past over or under-recovered costs, are prudent.

Fuel, fuel-related costs and certain purchased power costs are eligible for recovery by Electric Utilities and Infrastructure. Electric Utilities and Infrastructure uses coal, hydroelectric, natural gas, oil, renewable generation and nuclear fuel to generate electricity, thereby maintaining a diverse fuel mix that helps mitigate the impact of cost increases in any one fuel. Due to the associated regulatory treatment and the method allowed for recovery, changes in fuel costs from year to year have no material impact on operating results of Electric Utilities and Infrastructure, unless a commission finds a portion of such costs to have been imprudent. However, delays between the expenditure for fuel costs and recovery from customers can adversely impact the timing of cash flows of Electric Utilities and Infrastructure.

BUSINESS

The table below reflects significant electric rate case applications approved and effective in the past three years or applications currently pending approval.

	Regulatory Body	Annual Increase (Decrease) (in millions)	Return on Equity	Equity Component of Capital Structure	Effective Date
Approved Rate Cases:					
Duke Energy Indiana 2019 Indiana Rate Case ^(a)	IURC	\$ 146	9.7 %	53 %	7/30/2020
Duke Energy Kentucky 2019 Kentucky Electric Rate Case	KPSC	24	9.25 %	48.23 %	5/1/2020
Duke Energy Carolinas 2018 South Carolina Rate Case	PSCSC	45	9.5 %	53 %	6/1/2019
Duke Energy Progress 2018 South Carolina Rate Case	PSCSC	29	9.5 %	53 %	6/1/2019
Duke Energy Ohio 2017 Ohio Electric Rate Case	PUCO	(19)	9.84 %	50.75 %	1/2/2019
Duke Energy Carolinas 2017 North Carolina Rate Case	NCUC	(73)	9.9 %	52 %	8/1/2018
Duke Energy Kentucky 2017 Kentucky Electric Rate Case	KPSC	8	9.725 %	49 %	5/1/2018
Duke Energy Progress 2017 North Carolina Rate Case	NCUC	151	9.9 %	52 %	3/16/2018
Pending Rate Cases:					
Duke Energy Carolinas 2019 North Carolina Rate Case ^(b)	NCUC	\$ 291	10.3 %	53 %	8/1/2020
Duke Energy Progress 2019 North Carolina Rate Case ^(b)	NCUC	464	10.3 %	53 %	9/1/2020

- (a) Step 1 rates are approximately 75% of the total and became effective July 30, 2020. Step 2 rates are approximately 25% of the total rate case increase and will be implemented in mid-2021. Amounts exclude the Utility Receipt Tax amounts.
- (b) Partial Settlements were reached on July 31, 2020, which are subject to approval by the NCUC. Components of the partial settlements included a return of equity of 9.6% and a capital structure of 52% equity. These temporary rates went into effect August 24, 2020, for Duke Energy Carolinas and September 1, 2020, for Duke Energy Progress. A settlement was also reached, subject to approval by the NCUC, on coal ash cost recovery in January of 2021.

Additionally, in January 2021, Duke Energy Florida filed a settlement agreement with the FPSC that, if approved, will allow annual increases to its base rates at an agreed upon return on equity ("ROE") band and includes a base rate stay-out provision through 2024, among other provisions. For more information on rate matters and other regulatory proceedings, see Note 3 to the Consolidated Financial Statements, "Regulatory Matters."

Federal

The FERC approves Electric Utilities and Infrastructure's cost-based rates for electric sales to certain power and transmission wholesale customers. Regulations of FERC and the state electric utility commissions govern access to regulated electric and other data by nonregulated entities and services provided between regulated and nonregulated energy affiliates. These regulations affect the activities of nonregulated affiliates with Electric Utilities and Infrastructure.

RTOs

PJM and MISO are the ISOs and FERC-approved RTOs for the regions in which Duke Energy Ohio and Duke Energy Indiana operate. PJM and MISO operate energy, capacity and other markets, and control the day-to-day operations of bulk power systems through central dispatch.

Duke Energy Ohio is a member of PJM and Duke Energy Indiana is a member of MISO. Transmission owners in these RTOs have turned over control of their transmission facilities and their transmission systems are currently under the dispatch control of the RTOs. Transmission service is provided on a regionwide, open-access basis using the transmission facilities of the RTO members at rates based on the costs of transmission service.

Environmental

Electric Utilities and Infrastructure is subject to the jurisdiction of the EPA and state and local environmental agencies. For a discussion of environmental regulation, see "Environmental Matters" in this section. See the "Other Matters" section of Management's Discussion and Analysis for a discussion about potential Global Climate Change legislation and other EPA regulations under development and the potential impacts such legislation and regulation could have on Duke Energy's operations.

GAS UTILITIES AND INFRASTRUCTURE

Gas Utilities and Infrastructure conducts natural gas operations primarily through the regulated public utilities of Piedmont, Duke Energy Ohio and Duke Energy Kentucky. The natural gas operations are subject to the rules and regulations of the NCUC, PSCSC, PUCO, KPSC, TPUC, PHMSA and the FERC. Gas Utilities and Infrastructure serves residential, commercial, industrial and power generation natural gas customers, including customers served by municipalities who are wholesale customers. Gas Utilities and Infrastructure has over 1.6 million customers, including 1.1 million customers located in North Carolina, South Carolina and Tennessee, and an additional 541,000 customers located within southwestern Ohio and northern Kentucky. In the Carolinas, Ohio and Kentucky, the service areas are comprised of numerous cities, towns and communities. In Tennessee, the service area is the metropolitan area of Nashville. The following map shows the service territory and investments in operating pipelines for Gas Utilities and Infrastructure as of December 31, 2020.

BUSINESS

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The number of residential, commercial and industrial customers within the Gas Utilities and Infrastructure service territory is expected to increase over time. Average usage per residential customer is expected to remain flat or decline for the foreseeable future; however, decoupled rates in North Carolina and various rate design mechanisms in other jurisdictions partially mitigate the impact of the declining usage per customer on overall profitability.

Gas Utilities and Infrastructure also owns, operates and has investments in various pipeline transmission and natural gas storage facilities.

Natural Gas for Retail Distribution

Gas Utilities and Infrastructure is responsible for the distribution of natural gas to retail customers in its North Carolina, South Carolina, Tennessee, Ohio and Kentucky service territories. Gas Utilities and Infrastructure's natural gas procurement strategy is to contract primarily with major and independent producers and marketers for natural gas supply. It also purchases a diverse portfolio of transportation and storage service from interstate pipelines. This strategy allows Gas Utilities and Infrastructure to assure reliable natural gas supply and transportation for its firm customers during peak winter conditions. When firm pipeline services or contracted natural gas supplies are temporarily not needed due to market demand fluctuations, Gas Utilities and Infrastructure may release these services and supplies in the secondary market under FERC-approved capacity release provisions or make wholesale secondary market sales. In 2020, firm supply purchase commitment agreements provided 100% of the natural gas supply for both Piedmont and Duke Energy Ohio.

BUSINESS

Impact of Weather

Gas Utilities and Infrastructure revenues are generally protected from the impact of weather fluctuations due to the regulatory mechanisms that are available in most service territories. In North Carolina, margin decoupling provides protection from both weather and other usage variations like conservation for residential and commercial customer classes. Margin decoupling provides a set revenue per customer independent of actual usage. In South Carolina, Tennessee and Kentucky, weather normalization adjusts revenues either up or down depending on how much warmer or colder than normal a given month has been. Weather normalization adjustments occur from November through March in South Carolina, from October through April in Tennessee and from November through April in Kentucky. Duke Energy Ohio collects most of its non-fuel revenue through a fixed monthly charge that is not impacted by usage fluctuations that result from weather changes or conservation.

Competition

Gas Utilities and Infrastructure's businesses operate as the sole provider of natural gas service within their retail service territories. Gas Utilities and Infrastructure owns and operates facilities necessary to transport and distribute natural gas. Gas Utilities and Infrastructure earns retail margin on the transmission and distribution of natural gas and not on the cost of the underlying commodity. Services are priced by state commission-approved rates designed to include the costs of providing these services and a reasonable return on invested capital. This regulatory policy is intended to provide safe and reliable natural gas service at fair prices.

In residential, commercial and industrial customer markets, natural gas distribution operations compete with other companies that supply energy, primarily electric companies, propane and fuel oil dealers, renewable energy providers and coal companies in relation to sources of energy for electric power plants, as well as nuclear energy. A significant competitive factor is price. Gas Utilities and Infrastructure's primary product competition is with electricity for heating, water heating and cooking. Increases in the price of natural gas or decreases in the price of other energy sources could negatively impact competitive position by decreasing the price benefits of natural gas to the consumer. In the case of industrial customers, such as manufacturing plants, adverse economic or market conditions, including higher natural gas costs, could cause these customers to suspend business operations or to use alternative sources of energy in favor of energy sources with lower per-unit costs.

Higher natural gas costs or decreases in the price of other energy sources may allow competition from alternative energy sources for applications that have traditionally used natural gas, encouraging some customers to move away from natural gas-fired equipment to equipment fueled by other energy sources. Competition between natural gas and other forms of energy is also based on efficiency, performance, reliability, safety and other non-price factors. Technological improvements in other energy sources and events that impair the public perception of the non-price attributes of natural gas could erode our competitive advantage. These factors in turn could decrease the demand for natural gas, impair our ability to attract new customers and cause existing customers to switch to other forms of energy or to bypass our systems in favor of alternative competitive sources. This could result in slow or no customer growth and could cause customers to reduce or cease using our product, thereby reducing our ability to make capital expenditures and otherwise grow our business, adversely affecting our earnings.

Pipeline and Storage Investments

Duke Energy, through its Gas Utilities and Infrastructure segment, has a 7.5% equity ownership interest in Sabal Trail. Sabal Trail is a joint venture that owns the Sabal Trail Natural Gas Pipeline (Sabal Trail pipeline) to transport natural gas to Florida, regulated by FERC. The Sabal Trail Phase I mainline was placed into service in July 2017 and traverses Alabama, Georgia and Florida. The remaining lateral line to the Duke Energy Florida's Citrus County CC was placed into service in March 2018. Phase II of Sabal Trail went into service in May 2020, adding approximately 200,000 Dth of capacity to the Sabal Trail pipeline.

Gas Utilities and Infrastructure has a 47% equity ownership interest in ACP, which planned to build the ACP pipeline, an approximately 600-mile interstate natural gas pipeline. The ACP pipeline was intended to transport diverse natural gas supplies into southeastern markets and would be regulated by FERC. Dominion Energy owns 53% of ACP and was contracted to construct and operate the ACP pipeline upon completion. On July 5, 2020, Dominion announced a sale of substantially all of its gas transmission and storage segment assets, which were critical to the ACP pipeline. Further, permitting delays and legal challenges had materially affected the timing and cost of the pipeline. As a result, Duke Energy determined that they would no longer invest in the construction of the ACP pipeline. For the year ended December 31, 2020, Duke Energy recorded \$2.1 billion of costs related to ACP.

Gas Utilities and Infrastructure has a 24% equity ownership interest in Constitution, an interstate pipeline development company formed to develop, construct, own and operate a 124-mile natural gas pipeline and related facilities, regulated by FERC. Constitution was slated to transport natural gas supplies from the Marcellus supply region in northern Pennsylvania to major northeastern markets. As of February 5, 2020, the Constitution partners formally resolved to initiate the dissolution of Constitution, and to terminate the Constitution Pipeline project.

Duke Energy, through its Gas Utilities and Infrastructure segment, has a 21.49% equity ownership interest in Cardinal, an intrastate pipeline located in North Carolina regulated by the NCUC, a 45% equity ownership in Pine Needle, an interstate liquefied natural gas storage facility located in North Carolina and a 50% equity ownership interest in Hardy Storage, an underground interstate natural gas storage facility located in Hardy and Hampshire counties in West Virginia. Pine Needle and Hardy Storage are regulated by FERC.

KO Transmission Company (KO Transmission), a wholly owned subsidiary of Duke Energy Ohio, is an interstate pipeline company engaged in the business of transporting natural gas and is subject to the rules and regulations of FERC. KO Transmission's 90-mile pipeline supplies natural gas to Duke Energy Ohio and interconnects with the Columbia Gulf Transmission pipeline and Tennessee Gas Pipeline. An approximately 70-mile portion of KO Transmission's pipeline facilities is co-owned by Columbia Gas Transmission Corporation.

See Notes 3, 12 and 17 to the Consolidated Financial Statements, "Regulatory Matters," "Investments in Unconsolidated Affiliates" and "Variable Interest Entities," respectively, for further information on Duke Energy's pipeline investments.

BUSINESS

Inventory

Gas Utilities and Infrastructure must maintain adequate natural gas inventory in order to provide reliable delivery to customers. As of December 31, 2020, the inventory balance for Gas Utilities and Infrastructure was \$82 million. For more information on inventory, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

Regulation

State

The state gas utility commissions approve rates for Duke Energy's retail natural gas service within their respective states. The state gas utility commissions, to varying degrees, have authority over the construction and operation of Gas Utilities and Infrastructure's natural gas distribution facilities. CPCNs issued by the state gas utility commissions or other government agencies, as applicable, authorize Gas Utilities and Infrastructure to construct and operate its natural gas distribution facilities and to sell natural gas to retail and wholesale customers. Prior approval from the relevant state gas utility commission is required for Gas Utilities and Infrastructure to issue securities. The underlying concept of utility ratemaking is to set rates at a level that allows the utility to collect revenues equal to its cost of providing service plus a reasonable rate of return on its invested capital, including equity.

In addition to amounts collected from customers through approved base rates, each of the state gas utility commissions allow recovery of certain costs through various cost-recovery clauses to the extent the respective commission determines in periodic hearings that such costs, including any past over- or under-recovered costs, are prudent.

Natural gas costs are eligible for recovery by Gas Utilities and Infrastructure. Due to the associated regulatory treatment and the method allowed for recovery, changes in natural gas costs from year to year have no material impact on operating results of Gas Utilities and Infrastructure, unless a commission finds a portion of such costs to have been imprudent. However, delays between the expenditure for natural gas and recovery from customers can adversely impact the timing of cash flows of Gas Utilities and Infrastructure.

The following table summarizes certain components underlying recently approved and effective base rates or rate stabilization filings in the last three years.

	Annual Increase (Decrease) (in millions)	Return on Equity	Equity Component of Capital Structure	Effective Date
Approved Rate Cases:				
Piedmont 2017 South Carolina Rate Stabilization Adjustment Filing	\$ 6	10.2 %	53.0 %	November 2017
Piedmont 2018 South Carolina Rate Stabilization Adjustment Filing	(14)	10.2 %	53.0 %	November 2018
Piedmont 2019 South Carolina Rate Stabilization Adjustment Filing	6	9.9 %	55.4 %	November 2019
Piedmont 2020 South Carolina Rate Stabilization Adjustment Filing	7	9.8 %	52.3 %	November 2020
Duke Energy Kentucky 2018 Natural Gas Base Rate Case	7	9.7 %	50.8 %	April 2019
Piedmont 2019 North Carolina Natural Gas Base Rate Case	109	9.7 %	52.0 %	November 2019
Piedmont 2020 Tennessee Natural Gas Base Rate Case	16	9.8 %	50.5 %	January 2021

Gas Utilities and Infrastructure has IMR mechanisms in North Carolina and Tennessee designed to separately track and recover certain costs associated with capital investments incurred to comply with federal pipeline safety and integrity programs. The following table summarizes information related to the recently approved IMR filing.

(in millions)	Cumulative Investment	Annual Revenues	Effective Date
Piedmont 2020 IMR Filing – North Carolina	\$ 307	\$ 30	December 2020

In Piedmont's Tennessee rate case settled in February 2021, the Company included projected IMR investment through December 31, 2021, in its rate base. The recovery of integrity investment was requested in the rate case and not through the Tennessee IMR mechanism.

For more information on rate matters and other regulatory proceedings, see Note 3 to the Consolidated Financial Statements, "Regulatory Matters."

Federal

Gas Utilities and Infrastructure is subject to various federal regulations, including regulations that are particular to the natural gas industry. These federal regulations include but are not limited to the following:

- Regulations of the FERC affect the certification and siting of new interstate natural gas pipeline projects, the purchase and sale of, the prices paid for, and the terms and conditions of service for the interstate transportation and storage of natural gas.
- Regulations of the PHMSA affect the design, construction, operation, maintenance, integrity, safety and security of natural gas distribution and transmission systems.

BUSINESS

Commercial Renewables has entered into agreements for certain of its generating assets that are held by LLCs whose members include a noncontrolling tax equity investor. The allocation of tax attributes and cash flows to the tax equity investor are governed by the provisions of the LLC agreements. The GAAP earnings allocations to the tax equity investors can result in variability in earnings to Duke Energy as a result of the application of the HLBV method in allocating income or loss to the owners. As part of its growth strategy, Commercial Renewables expects to enter into these arrangements for future generating assets.

For additional information on Commercial Renewables' generation facilities, see Item 2, "Properties."

Market Environment and Competition

Commercial Renewables primarily competes for wholesale contracts for the generation and sale of electricity from generation assets it either develops or acquires and owns. The market price of commodities and services, along with the quality and reliability of services provided, drive competition in the wholesale energy business. The number and type of competitors may vary based on location, generation type and project size. Commercial Renewables' main competitors include other nonregulated generators and wholesale power providers.

Sources of Electricity

Commercial Renewables relies on wind, solar, fuel cells and battery resources for its generation of electric energy.

Regulation

Commercial Renewables is subject to regulation at the federal level, primarily from the FERC. Regulations of the FERC govern access to regulated market information by nonregulated entities and services provided between regulated and nonregulated utilities.

OTHER

The remainder of Duke Energy's operations is presented as Other. While it is not a business segment, Other primarily includes interest expense on holding company debt, unallocated corporate costs including costs to achieve strategic acquisitions, amounts related to certain companywide initiatives and contributions made to the Duke Energy Foundation. Other also includes Bison and an investment in NMC.

The Duke Energy Foundation is a nonprofit organization funded by Duke Energy shareholders that makes charitable contributions to selected nonprofits and government subdivisions.

Bison, a wholly owned subsidiary of Duke Energy, is a captive insurance company with the principal activity of providing Duke Energy subsidiaries with indemnification for financial losses primarily related to property, workers' compensation and general liability.

Duke Energy owns a 17.5% equity interest in NMC. The joint venture company has production facilities in Jubail, Saudi Arabia, where it manufactures certain petrochemicals and plastics. The company annually produces approximately 1 million metric tons each of MTBE and methanol and has the capacity to produce 50,000 metric tons of polyacetal. The main feedstocks to produce these products are natural gas and butane. Duke Energy records the investment activity of NMC using the equity method of accounting and retains 25% of NMC's board of directors' representation and voting rights.

Human Capital Management

Governance

Our employees are critical to the success of our company. Our Human Resources organization is responsible for our human capital management strategy, which includes recruiting and hiring, onboarding and training, diversity and inclusion, workforce planning, talent and succession planning, performance management and employee development. Key areas of focus include fostering a high-performance and inclusive culture built on strong leadership and highly engaged and diverse employees, building a pipeline of skilled workers and ensuring knowledge transfer as employees retire.

Our Board of Directors provides oversight on certain human capital management matters, primarily through the Compensation and People Development Committee, which is responsible for reviewing strategies and policies related to human capital management, including with respect to matters such as diversity and inclusion, employee engagement and talent development. The Compensation and People Development Committee also receives updates on employee engagement surveys and action plans.

Employees

On December 31, 2020, Duke Energy had a total of 27,535 full-time, part-time and temporary employees, the overwhelming majority of which were full-time employees. The total includes 5,165 employees who are represented by labor unions under various collective bargaining agreements that generally cover wages, benefits, working practices, and other terms and conditions of employment.

BUSINESS

Compensation

The company seeks to attract and retain an appropriately qualified workforce and leverages Duke Energy's leadership imperatives to foster a culture focused on customers, innovation, and highly engaged employees. Our compensation program is designed to link pay to performance with the goal of attracting and retaining talented employees, rewarding individual performance, encouraging long-term commitment to our business, and aligning the interests of our management team with those of key stakeholders, including shareholders and customers. In addition to competitive base pay, we provide eligible employees with compensation and benefits under a variety of plans and programs, including with respect to health care benefits, retirement savings, pension, health savings and flexible spending accounts, wellness, family leaves, employee assistance, as well as other benefits including a charitable matching program. We supplement our pay for performance program with a number of compensation policies that are aligned with the long-term interests of Duke Energy and our shareholders, including a short-term incentive plan and a long-term incentive plan for eligible employees.

Diversity and Inclusion

Duke Energy is committed to continuing to build a diverse workforce that reflects the communities we serve while strengthening a culture of inclusion where employees and customers feel respected and valued. Our Enterprise Diversity and Inclusion Advisory Council, which is chaired by our Chief Operating Officer, is responsible for reviewing our diversity and inclusion initiatives for continuous improvement, as well as helping to develop actionable outcomes and results. We have established aspirational goals with respect to diversity and inclusion, and we regularly report our progress toward achieving those goals. Our aspirational goals include achieving a workforce representation of at least 25% female and 20% racial and ethnic diversity. As of December 31, 2020, our workforce consisted of approximately 23% female and 18% racial and ethnic diversity.

The company also has a number of Employee Resource Groups (ERGs), which are networks of employees formed around a common dimension of diversity whose goals and objectives align with the company's goals and objectives. These groups focus on employee professional development and networking, community outreach, cultural awareness, recruiting and retention. They also serve as a resource to the company for advocacy and community outreach and improving customer service through innovation. ERG-sponsored forums include networking events, mentoring, scholarship banquets for aspiring college students, and workshops on topics such as time management, stress reduction, career planning and work-life balance. Our ERGs are open to all employees.

Among other efforts, the company has developed partnerships with community organizations, community colleges and historically black colleges and universities to support our strategy of building a diverse and highly skilled talent pipeline.

Operational Excellence

The foundation for our growth and success is our continued focus on operational excellence, the leading indicator of which is safety. As such, the safety of our workforce remains our top priority. The company closely monitors the Total Incident Case Rate (TICR), which is a metric based on strict OSHA definitions that measures the number of occupational injuries and illnesses per 100 employees. This objective emphasizes our focus on achieving an event-free and injury-free workplace. As an indication of our commitment to safety, we include safety metrics in both the short-term and long-term incentive plans based on the TICR for employees. Our employees delivered strong safety results in 2020, consistent with our industry-leading performance levels from 2016 through 2019.

COVID-19 Response

Safety continued to be of paramount importance during the COVID-19 pandemic and included executing on robust business continuity plans that helped ensure critical functions continued to operate under a broad range of circumstances while maintaining a safe work environment. Actions included the following:

- Engaged our environmental, health and safety experts to develop new safety protocols for thousands of essential workers
- Quickly transitioned thousands of employees to virtual status
- Added bandwidth for our information technology systems, reviewed inventory in supply chain, implemented a series of surveys to get employee input, and provided ongoing communications to keep them informed as conditions evolved
- Created a cross-functional COVID-19 case management team to track and disposition positive cases, ensure appropriate contact tracing and compliance with quarantine and safe return to work requirements
- Ensured power plants and electricity and natural gas delivery facilities were staffed, helping safeguard dependable service to customers
- Implemented stringent preventive measures in alignment with the Centers for Disease Control and Prevention's (CDC) guidance to help keep employees and customers safe and help ensure we had adequate resources to maintain reliability

The company also provided additional benefits to support our workforce throughout the pandemic, including:

- 60 hours of additional personal time off to employees who experienced a disruption in dependent care due to school, daycare or other dependent care issues
- A \$1,500 stipend to assist with unplanned expenses resulting from costs related to COVID-19 to employees at a certain pay threshold
- Donated more than \$550,000 to the Relief4Employees program, which is a fund that employees can draw upon for short-term financial help during times of personal need

BUSINESS

Information about Our Executive Officers

The following table sets forth the individuals who currently serve as executive officers. Executive officers serve until their successors are duly elected or appointed.

Name	Age ^(a)	Current and Recent Positions Held
Lynn J. Good	61	Chair, President and Chief Executive Officer. Ms. Good has served as Chair, President and Chief Executive Officer of Duke Energy since January 1, 2016, and was Vice Chairman, President and Chief Executive Officer of Duke Energy from July 2013 through December 2015. Prior to that, she served as Executive Vice President and Chief Financial Officer since 2009.
Steven K. Young	62	Executive Vice President and Chief Financial Officer. Mr. Young assumed his current position in August 2013. Prior to that, he served as Vice President, Chief Accounting Officer and Controller, assuming the role of Chief Accounting Officer in July 2012 and the role of Controller in December 2006.
Douglas F Esamann	63	Executive Vice President, Energy Solutions and President, Midwest/Florida Regions and Natural Gas Business. Mr. Esamann assumed his current position in October 2019, was Executive Vice President, Energy Solutions and President, Midwest and Florida Regions since September 2016 and was Executive Vice President and President, Midwest and Florida Regions since June 2015. Prior to that, he served as President, Duke Energy Indiana since November 2010.
Kodwo Ghartey-Tagoe	57	Executive Vice President, Chief Legal Officer and Corporate Secretary. Mr. Ghartey-Tagoe assumed the position of Executive Vice President, Chief Legal Officer and Corporate Secretary in May 2020. He was appointed Executive Vice President and Chief Legal Officer in October 2019, after serving as President, South Carolina since 2017. Mr. Ghartey-Tagoe joined Duke Energy in 2002 and has held numerous management positions in Duke Energy's Legal Department, including Duke Energy's Senior Vice President of State and Federal Regulatory Legal Support.
Dwight L. Jacobs	55	Senior Vice President, Chief Accounting Officer, Tax and Controller. Mr. Jacobs has served as Senior Vice President, Chief Accounting Officer, Tax and Controller since January 1, 2019. Prior to that, he served as Senior Vice President, Chief Accounting Officer and Controller since June 1, 2018. Prior to that, he served as Senior Vice President, Financial Planning & Analysis since February 2016 and as Chief Risk Officer since July 2014. Prior to his role as Chief Risk Officer, Mr. Jacobs served as Vice President, Rates & Regulatory Strategy since May 2010.
Dhiaa M. Jamil	64	Executive Vice President and Chief Operating Officer. Mr. Jamil assumed the role of Chief Operating Officer in May 2016. Prior to his current position, he held the title Executive Vice President and President, Regulated Generation and Transmission since June 2015. Prior to that, he served as Executive Vice President and President, Regulated Generation since August 2014. He served as Executive Vice President and President of Duke Energy Nuclear from March 2013 to August 2014, and was Chief Nuclear Officer from February 2008 to February 2013.
Julia S. Janson	56	Executive Vice President, External Affairs and President, Carolinas Region. Ms. Janson has held the position of Executive Vice President, External Affairs and President, Carolinas Region since October 2019. Prior to that, she held the position of Executive Vice President, External Affairs and Chief Legal Officer since November 2018. She originally assumed the position of Executive Vice President, Chief Legal Officer and Corporate Secretary in December 2012, and then assumed the responsibilities for External Affairs in February 2016.
Brian D. Savoy	45	Senior Vice President, Chief Transformation and Administrative Officer. Mr. Savoy assumed his current position in October 2019. Prior to that, he served as Senior Vice President, Business Transformation and Technology since May 2016; Senior Vice President, Controller and Chief Accounting Officer from September 2013 to May 2016; Director, Forecasting and Analysis from 2009 to September 2013; and Vice President and Controller of the Commercial Power segment from 2006 to 2009.
Harry K. Sideris	50	Senior Vice President, Customer Experience and Services. Mr. Sideris assumed his current position in October 2019. Prior to that, he served as Senior Vice President and Chief Distribution Officer since June 2018; State President, Florida from January 2017 to June 2018; Senior Vice President of Environmental Health and Safety from August 2014 to January 2017; and Vice President of Power Generations for the Company's Fossil/Hydro Operations in the western portions of North Carolina and South Carolina from July 2012 to August 2014.

(a) The ages of the officers provided are as of January 31, 2021.

There are no family relationships between any of the executive officers, nor any arrangement or understanding between any executive officer and any other person involved in officer selection.

Environmental Matters

The Duke Energy Registrants are subject to federal, state and local laws and regulations with regard to air and water quality, hazardous and solid waste disposal and other environmental matters. Environmental laws and regulations affecting the Duke Energy Registrants include, but are not limited to:

- The Clean Air Act, as well as state laws and regulations impacting air emissions, including State Implementation Plans related to existing and new national ambient air quality standards for ozone and particulate matter. Owners and/or operators of air emission sources are responsible for obtaining permits and for annual compliance and reporting.
- The CWA, which requires permits for facilities that discharge wastewaters into navigable waters.
- The Comprehensive Environmental Response, Compensation and Liability Act, which can require any individual or entity that currently owns or in the past owned or operated a disposal site, as well as transporters or generators of hazardous substances sent to a disposal site, to share in remediation costs.

BUSINESS

- The National Environmental Policy Act, which requires federal agencies to consider potential environmental impacts in their permitting and licensing decisions, including siting approvals.
- Coal Ash Act, as amended, which establishes requirements regarding the use and closure of existing ash basins, the disposal of ash at active coal plants and the handling of surface water and groundwater impacts from ash basins in North Carolina.
- The Solid Waste Disposal Act, as amended by RCRA, which creates a framework for the proper management of hazardous and nonhazardous solid waste; classifies CCR as nonhazardous waste; and establishes standards for landfill and surface impoundment placement, design, operation and closure, groundwater monitoring, corrective action, and post-closure care.
- The Toxic Substances Control Act, which gives EPA the authority to require reporting, recordkeeping and testing requirements, and to place restrictions relating to chemical substances and/or mixtures, including polychlorinated biphenyls.

For more information on environmental matters, see Notes 4 and 9 to the Consolidated Financial Statements, "Commitments and Contingencies – Environmental" and "Asset Retirement Obligations," respectively, and the "Other Matters" section of Management's Discussion and Analysis. Except as otherwise described in these sections, costs to comply with current federal, state and local provisions regulating the discharge of materials into the environment or other potential costs related to protecting the environment are incorporated into the routine cost structure of our various business segments and are not expected to have a material adverse effect on the competitive position, consolidated results of operations, cash flows or financial position of the Duke Energy Registrants.

The "Other Matters" section of Management's Discussion and Analysis includes more information on certain environmental regulations and a discussion of Global Climate Change including the potential impact of current and future legislation related to GHG emissions on the Duke Energy Registrants' operations. Recently passed and potential future environmental statutes and regulations could have a significant impact on the Duke Energy Registrants' results of operations, cash flows or financial position. However, if and when such statutes and regulations become effective, the Duke Energy Registrants will seek appropriate regulatory recovery of costs to comply within its regulated operations.

DUKE ENERGY CAROLINAS

Duke Energy Carolinas is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Carolinas' service area covers approximately 24,000 square miles and supplies electric service to 2.7 million residential, commercial and industrial customers. For information about Duke Energy Carolinas' generating facilities, see Item 2, "Properties." Duke Energy Carolinas is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Substantially all of Duke Energy Carolinas' operations are regulated and qualify for regulatory accounting. Duke Energy Carolinas operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 2 to the Consolidated Financial Statements, "Business Segments."

PROGRESS ENERGY

Progress Energy is a public utility holding company primarily engaged in the regulated electric utility business and is subject to regulation by the FERC. Progress Energy conducts operations through its wholly owned subsidiaries, Duke Energy Progress and Duke Energy Florida. When discussing Progress Energy's financial information, it necessarily includes the results of Duke Energy Progress and Duke Energy Florida.

Substantially all of Progress Energy's operations are regulated and qualify for regulatory accounting. Progress Energy operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 2 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY PROGRESS

Duke Energy Progress is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Progress' service area covers approximately 29,000 square miles and supplies electric service to approximately 1.6 million residential, commercial and industrial customers. For information about Duke Energy Progress' generating facilities, see Item 2, "Properties." Duke Energy Progress is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Substantially all of Duke Energy Progress' operations are regulated and qualify for regulatory accounting. Duke Energy Progress operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 2 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY FLORIDA

Duke Energy Florida is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Florida. Duke Energy Florida's service area covers approximately 13,000 square miles and supplies electric service to approximately 1.9 million residential, commercial and industrial customers. For information about Duke Energy Florida's generating facilities, see Item 2, "Properties." Duke Energy Florida is subject to the regulatory provisions of the FPSC, NRC and FERC.

Substantially all of Duke Energy Florida's operations are regulated and qualify for regulatory accounting. Duke Energy Florida operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 2 to the Consolidated Financial Statements, "Business Segments."

BUSINESS

DUKE ENERGY OHIO

Duke Energy Ohio is a regulated public utility primarily engaged in the transmission and distribution of electricity in portions of Ohio and Kentucky, in the generation and sale of electricity in portions of Kentucky and the transportation and sale of natural gas in portions of Ohio and Kentucky. Duke Energy Ohio also conducts competitive auctions for retail electricity supply in Ohio whereby recovery of the energy price is from retail customers. Operations in Kentucky are conducted through its wholly owned subsidiary, Duke Energy Kentucky. References herein to Duke Energy Ohio include Duke Energy Ohio and its subsidiaries, unless otherwise noted. Duke Energy Ohio is subject to the regulatory provisions of the PUCO, KPSC, PHMSA and FERC.

Duke Energy Ohio's service area covers approximately 3,000 square miles and supplies electric service to approximately 880,000 residential, commercial and industrial customers and provides transmission and distribution services for natural gas to approximately 545,000 customers. For information about Duke Energy Ohio's generating facilities, see Item 2, "Properties."

KO Transmission, a wholly owned subsidiary of Duke Energy Ohio, is an interstate pipeline company engaged in the business of transporting natural gas and is subject to the rules and regulations of FERC. KO Transmission's 90-mile pipeline supplies natural gas to Duke Energy Ohio and interconnects with the Columbia Gulf Transmission pipeline and Tennessee Gas Pipeline. An approximately 70-mile portion of KO Transmission's pipeline facilities is co-owned by Columbia Gas Transmission Corporation.

Substantially all of Duke Energy Ohio's operations are regulated and qualify for regulatory accounting. Duke Energy Ohio has two reportable segments, Electric Utilities and Infrastructure and Gas Utilities and Infrastructure. For additional information on these business segments, including financial information, see Note 2 to the Consolidated Financial Statements, "Business Segments."

DUKE ENERGY INDIANA

Duke Energy Indiana is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Indiana. Duke Energy Indiana's service area covers 23,000 square miles and supplies electric service to 850,000 residential, commercial and industrial customers. For information about Duke Energy Indiana's generating facilities, see Item 2, "Properties." Duke Energy Indiana is subject to the regulatory provisions of the IURC and FERC.

Substantially all of Duke Energy Indiana's operations are regulated and qualify for regulatory accounting. Duke Energy Indiana operates one reportable business segment, Electric Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 2 to the Consolidated Financial Statements, "Business Segments."

PIEDMONT

Piedmont is a regulated public utility primarily engaged in the distribution of natural gas to over 1.1 million residential, commercial, industrial and power generation customers in portions of North Carolina, South Carolina and Tennessee, including customers served by municipalities who are wholesale customers. For information about Piedmont's natural gas distribution facilities, see Item 2, "Properties." Piedmont is subject to the regulatory provisions of the NCUC, PSCSC, TPUC, PHMSA and FERC.

Substantially all of Piedmont's operations are regulated and qualify for regulatory accounting. Piedmont operates one reportable business segment, Gas Utilities and Infrastructure. For additional information regarding this business segment, including financial information, see Note 2 to the Consolidated Financial Statements, "Business Segments."

ITEM 1A. RISK FACTORS

In addition to other disclosures within this Form 10-K, including "Management's Discussion and Analysis of Financial Condition and Results of Operations – Matters Impacting Future Results" for each registrant in Item 7, and other documents filed with the SEC from time to time, the following factors should be considered in evaluating Duke Energy and its subsidiaries. Such factors could affect actual results of operations and cause results to differ substantially from those currently expected or sought. Unless otherwise indicated, risk factors discussed below generally relate to risks associated with all of the Duke Energy Registrants. Risks identified at the Subsidiary Registrant level are generally applicable to Duke Energy.

BUSINESS STRATEGY RISKS

Duke Energy's future results could be adversely affected if it is unable to implement its business strategy.

Duke Energy's results of operations depend, in significant part, on the extent to which it can implement its business strategy successfully. Duke Energy's strategy, which includes transforming the customer experience, achieving net-zero carbon emissions by 2050, modernizing the regulatory construct and digital transformation, is subject to business, regulatory, economic and competitive uncertainties and contingencies, and required advancements in technology to achieve net-zero carbon emissions by 2050, many of which are beyond its control. As a consequence, Duke Energy may not be able to fully implement or realize the anticipated results of its strategy.

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RISK FACTORS

REGULATORY, LEGISLATIVE AND LEGAL RISKS

The Duke Energy Registrants' regulated utility revenues, earnings and results are dependent on state legislation and regulation that affect electric generation, electric and natural gas transmission, distribution and related activities, which may limit their ability to recover costs.

The Duke Energy Registrants' regulated electric and natural gas utility businesses are regulated on a cost-of-service/rate-of-return basis subject to statutes and regulatory commission rules and procedures of North Carolina, South Carolina, Florida, Ohio, Tennessee, Indiana and Kentucky. If the Duke Energy Registrants' regulated utility earnings exceed the returns established by the state utility commissions, retail electric and natural gas rates may be subject to review and possible reduction by the Commissions, which may decrease the Duke Energy Registrants' earnings. Additionally, if regulatory bodies do not allow recovery of costs incurred in providing service, or do not do so on a timely basis, the Duke Energy Registrants' earnings could be negatively impacted.

If legislative and regulatory structures were to evolve in such a way that the Duke Energy Registrants' exclusive rights to serve their regulated customers were eroded, their earnings could be negatively impacted. Federal and state regulations, laws and other efforts designed to promote and expand the use of EE measures and distributed generation technologies, such as private solar and battery storage, in Duke Energy service territories could result in customers leaving the electric distribution system and an increase in customer net energy metering, which allows customers with private solar to receive bill credits for surplus power at the full retail amount. Over time, customer adoption of these technologies and increased EE could result in excess generation resources as well as stranded costs if Duke Energy is not able to fully recover the costs and investment in generation.

State regulators have approved various mechanisms to stabilize natural gas utility margins, including margin decoupling in North Carolina and rate stabilization in South Carolina. State regulators have approved other margin stabilizing mechanisms that, for example, allow for recovery of margin losses associated with negotiated transactions designed to retain large volume customers that could use alternative fuels or that may otherwise directly access natural gas supply through their own connection to an interstate pipeline. If regulators decided to discontinue the Duke Energy Registrants' use of tariff mechanisms, it would negatively impact results of operations, financial position and cash flows. In addition, regulatory authorities also review whether natural gas costs are prudently incurred and can disallow the recovery of a portion of natural gas costs that the Duke Energy Registrants seek to recover from customers, which would adversely impact earnings.

The rates that the Duke Energy Registrants' regulated utility businesses are allowed to charge are established by state utility commissions in rate case proceedings, which may limit their ability to recover costs and earn an appropriate return on investment.

The rates that the Duke Energy Registrants' regulated utility business are allowed to charge significantly influences the results of operations, financial position and cash flows of the Duke Energy Registrants. The regulation of the rates that the regulated utility businesses charge customers is determined, in large part, by state utility commissions in rate case proceedings. Negative decisions made by these regulators, or by any court on appeal of a rate case proceeding, could have a material adverse effect on the Duke Energy Registrants' results of operations, financial position or cash flows and affect the ability of the Duke Energy Registrants to recover costs and an appropriate return on the significant infrastructure investments being made.

Deregulation or restructuring in the electric industry may result in increased competition and unrecovered costs that could adversely affect the Duke Energy Registrants' results of operations, financial position or cash flows and their utility businesses.

Increased competition resulting from deregulation or restructuring legislation could have a significant adverse impact on the Duke Energy Registrants' results of operations, financial position or cash flows. If the retail jurisdictions served by the Duke Energy Registrants become subject to deregulation, the impairment of assets, loss of retail customers, lower profit margins or increased costs of capital, and recovery of stranded costs could have a significant adverse financial impact on the Duke Energy Registrants. Stranded costs primarily include the generation assets of the Duke Energy Registrants whose value in a competitive marketplace may be less than their current book value, as well as above-market purchased power commitments from QFs from whom the Duke Energy Registrants are legally obligated to purchase energy at an avoided cost rate under PURPA. The Duke Energy Registrants cannot predict the extent and timing of entry by additional competitors into the electric markets. The Duke Energy Registrants cannot predict if or when they will be subject to changes in legislation or regulation, nor can they predict the impact of these changes on their results of operations, financial position or cash flows.

The Duke Energy Registrants' businesses are subject to extensive federal regulation and a wide variety of laws and governmental policies, including taxes, that may change over time in ways that affect operations and costs.

The Duke Energy Registrants are subject to regulations under a wide variety of U.S. federal and state regulations and policies, including by FERC, NRC, EPA and various other federal agencies as well as the North American Electric Reliability Corporation. Regulation affects almost every aspect of the Duke Energy Registrants' businesses, including, among other things, their ability to: take fundamental business management actions; determine the terms and rates of transmission and distribution services; make acquisitions; issue equity or debt securities; engage in transactions with other subsidiaries and affiliates; and pay dividends upstream to the Duke Energy Registrants. Changes to federal regulations are continuous and ongoing. There can be no assurance that laws, regulations and policies will not be changed in ways that result in material modifications of business models and objectives or affect returns on investment by restricting activities and products, subjecting them to escalating costs, causing delays, or prohibiting them outright.

RISK FACTORS

The Duke Energy Registrants are subject to numerous environmental laws and regulations requiring significant capital expenditures that can increase the cost of operations, and which may impact or limit business plans, or cause exposure to environmental liabilities.

The Duke Energy Registrants are subject to numerous environmental laws and regulations affecting many aspects of their present and future operations, including CCRs, air emissions, water quality, wastewater discharges, solid waste and hazardous waste. These laws and regulations can result in increased capital, operating and other costs. These laws and regulations generally require the Duke Energy Registrants to obtain and comply with a wide variety of environmental licenses, permits, inspections and other approvals. Compliance with environmental laws and regulations can require significant expenditures, including expenditures for cleanup costs and damages arising from contaminated properties. Failure to comply with environmental regulations may result in the imposition of fines, penalties and injunctive measures affecting operating assets. The steps the Duke Energy Registrants could be required to take to ensure their facilities are in compliance could be prohibitively expensive. As a result, the Duke Energy Registrants may be required to shut down or alter the operation of their facilities, which may cause the Duke Energy Registrants to incur losses. Further, the Duke Energy Registrants may not be successful in recovering capital and operating costs incurred to comply with new environmental regulations through existing regulatory rate structures and their contracts with customers. Also, the Duke Energy Registrants may not be able to obtain or maintain from time to time all required environmental regulatory approvals for their operating assets or development projects. Delays in obtaining any required environmental regulatory approvals, failure to obtain and comply with them or changes in environmental laws or regulations to more stringent compliance levels could result in additional costs of operation for existing facilities or development of new facilities being prevented, delayed or subject to additional costs. Although it is not expected that the costs to comply with current environmental regulations will have a material adverse effect on the Duke Energy Registrants' results of operations, financial position and cash flows due to regulatory cost recovery, the Duke Energy Registrants are at risk that the costs of complying with environmental regulations in the future will have such an effect.

The EPA has enacted or proposed federal regulations governing the management of cooling water intake structures, wastewater and CO₂ emissions. New state legislation, including the North Carolina Clean Energy Plan, could impose carbon reduction goals that are more aggressive than the company's plans. These regulations may require the Duke Energy Registrants to make additional capital expenditures and increase operating and maintenance costs.

The Duke Energy Registrants' operations, capital expenditures and financial results may be affected by regulatory changes related to the impacts of global climate change.

There is continued concern, and increasing activism, both nationally and internationally, about climate change. The EPA and state regulators may adopt and implement regulations to restrict emissions of GHGs to address global climate change. Increased regulation of GHG emissions could impose significant additional costs on the Duke Energy Registrants' electric and natural gas operations, their suppliers and customers. Regulatory changes could result in generation facilities to be retired early and result in stranded costs if Duke Energy is not able to fully recover the costs and investment in generation, and could also affect demand for energy conservation and renewable products, which could impact our electric and natural gas businesses.

OPERATIONAL RISKS

The Duke Energy Registrants' operations have been and may be affected by COVID-19 in ways listed below and in ways the registrants cannot predict at this time.

The COVID-19 pandemic has impacted the Duke Energy Registrants' business strategy, results of operations, financial position and cash flows, albeit not materially as of this filing date, from specific activities listed below:

- Decreased demand for electricity and natural gas;
- Delays in rate cases and other legal proceedings;
- An inability to obtain labor or equipment necessary for the construction of generation projects or pipeline expansion;
- The health and availability of our critical personnel and their ability to perform business functions; and
- Actions of state utility commissions or federal or state governments to allow customers to suspend or delay payment of bills related to the provision of electric or natural gas services.

Furthermore, due to the unpredictability of the COVID-19 pandemic's ongoing impact on global health and economic stability, the Duke Energy Registrants expect that the activities listed below could negatively impact their business strategy, results of operations, financial position and cash flows:

- An inability to procure satisfactory levels of fuels or other necessary equipment to continue production of electricity and delivery of natural gas;
- An inability to maintain information technology systems and protections from cyberattack;
- An inability to obtain financing in volatile financial markets;
- Additional federal regulation tied to stimulus and other aid packages; and
- Impairment charges, which could include real estate as options for working remotely are evaluated and goodwill.

RISK FACTORS

The Duke Energy Registrants' results of operations may be negatively affected by overall market, economic and other conditions that are beyond their control.

Sustained downturns or sluggishness in the economy generally affect the markets in which the Duke Energy Registrants operate and negatively influence operations. Declines in demand for electricity or natural gas as a result of economic downturns in the Duke Energy Registrants' regulated service territories will reduce overall sales and lessen cash flows, especially as industrial customers reduce production and, therefore, consumption of electricity and the use of natural gas. Although the Duke Energy Registrants' regulated electric and natural gas businesses are subject to regulated allowable rates of return and recovery of certain costs, such as fuel and purchased natural gas costs, under periodic adjustment clauses, overall declines in electricity or natural gas sold as a result of economic downturn or recession could reduce revenues and cash flows, thereby diminishing results of operations. Additionally, prolonged economic downturns that negatively impact the Duke Energy Registrants' results of operations and cash flows could result in future material impairment charges to write-down the carrying value of certain assets, including goodwill, to their respective fair values.

The Duke Energy Registrants also sell electricity into the spot market or other competitive power markets on a contractual basis. With respect to such transactions, the Duke Energy Registrants are not guaranteed any rate of return on their capital investments through mandated rates, and revenues and results of operations are likely to depend, in large part, upon prevailing market prices. These market prices may fluctuate substantially over relatively short periods of time and could reduce the Duke Energy Registrants' revenues and margins, thereby diminishing results of operations.

Factors that could impact sales volumes, generation of electricity and market prices at which the Duke Energy Registrants are able to sell electricity and natural gas are as follows:

- weather conditions, including abnormally mild winter or summer weather that cause lower energy or natural gas usage for heating or cooling purposes, as applicable, and periods of low rainfall that decrease the ability to operate facilities in an economical manner;
- supply of and demand for energy commodities;
- transmission or transportation constraints or inefficiencies that impact nonregulated energy operations;
- availability of competitively priced alternative energy sources, which are preferred by some customers over electricity produced from coal, nuclear or natural gas plants, and customer usage of energy-efficient equipment that reduces energy demand;
- natural gas, crude oil and refined products production levels and prices;
- ability to procure satisfactory levels of inventory, such as coal, natural gas and uranium; and
- capacity and transmission service into, or out of, the Duke Energy Registrants' markets.

Natural disasters or operational accidents may adversely affect the Duke Energy Registrants' operating results.

Natural disasters or other operational accidents within the company or industry (such as forest fires, earthquakes, hurricanes or natural gas transmission pipeline explosions) could have direct or indirect impacts to the Duke Energy Registrants or to key contractors and suppliers. Further, the generation of electricity and the transportation and storage of natural gas involve inherent operating risks that may result in accidents involving serious injury or loss of life, environmental damage or property damage. Such events could impact the Duke Energy Registrants through changes to policies, laws and regulations whose compliance costs have a significant impact on the Duke Energy Registrants' results of operations, financial position and cash flows. In addition, if a serious operational accident were to occur, existing insurance policies may not cover all of the potential exposures or the actual amount of loss incurred. Any losses not covered by insurance, or any increases in the cost of applicable insurance as a result of such accident, could have a material adverse effect on the results of operations, financial position, cash flows and reputation of the Duke Energy Registrants.

The reputation and financial condition of the Duke Energy Registrants could be negatively impacted due to their obligations to comply with federal and state regulations, laws, and other legal requirements that govern the operations, assessments, storage, closure, remediation, disposal and monitoring relating to CCR, the high costs and new rate impacts associated with implementing these new CCR-related requirements and the strategies and methods necessary to implement these requirements in compliance with these legal obligations.

As a result of electricity produced for decades at coal-fired power plants, the Duke Energy Registrants manage large amounts of CCR that are primarily stored in dry storage within landfills or combined with water in other surface impoundments, all in compliance with applicable regulatory requirements. A CCR-related operational incident could have a material adverse impact on the reputation and results of operations, financial position and cash flows of the Duke Energy Registrants.

RISK FACTORS

During 2015, EPA regulations were enacted related to the management of CCR from power plants. These regulations classify CCR as nonhazardous waste under the RCRA and apply to electric generating sites with new and existing landfills and, new and existing surface impoundments, and establish requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring, protection and remedial procedures and other operational and reporting procedures for the disposal and management of CCR. In addition to the federal regulations, CCR landfills and surface impoundments will continue to be regulated by existing state laws, regulations and permits, as well as additional legal requirements that may be imposed in the future, such as the settlement reached with the NCDEQ to excavate seven of the nine remaining coal ash basins in North Carolina, and partially excavate the remaining two. These federal and state laws, regulations and other legal requirements may require or result in additional expenditures, including increased operating and maintenance costs, which could affect the results of operations, financial position and cash flows of the Duke Energy Registrants. The Duke Energy Registrants will continue to seek full cost recovery for expenditures through the normal ratemaking process with state and federal utility commissions, who permit recovery in rates of necessary and prudently incurred costs associated with the Duke Energy Registrants' regulated operations, and through other wholesale contracts with terms that contemplate recovery of such costs, although there is no guarantee of full cost recovery. In addition, the timing for and amount of recovery of such costs could have a material adverse impact on Duke Energy's cash flows.

The Duke Energy Registrants have recognized significant AROs related to these CCR-related requirements. Closure activities began in 2015 at the four sites specified as priority by the Coal Ash Act and at the W.S. Lee Steam Station site in South Carolina in connection with other legal requirements. Excavation at these sites involves movement of CCR materials to off-site locations for use as structural fill, to appropriate engineered off-site or on-site lined landfills or conversion of the ash for beneficial use. Duke Energy has completed excavation of coal ash at three of the four high priority sites. At other sites, planning and closure methods have been studied and factored into the estimated retirement and management costs, and closure activities have commenced. As the closure and CCR management work progresses and final closure plans and corrective action measures are developed and approved at each site, the scope and complexity of work and the amount of CCR material could be greater than estimates and could, therefore, materially increase compliance expenditures and rate impacts.

The Duke Energy Registrants' results of operations, financial position and cash flows may be negatively affected by a lack of growth or slower growth in the number of customers, or decline in customer demand or number of customers.

Growth in customer accounts and growth of customer usage each directly influence demand for electricity and natural gas and the need for additional power generation and delivery facilities. Customer growth and customer usage are affected by several factors outside the control of the Duke Energy Registrants, such as mandated EE measures, demand-side management goals, distributed generation resources and economic and demographic conditions, such as population changes, job and income growth, housing starts, new business formation and the overall level of economic activity.

Certain regulatory and legislative bodies have introduced or are considering requirements and/or incentives to reduce energy consumption by certain dates. Additionally, technological advances driven by federal laws mandating new levels of EE in end-use electric devices or other improvements in or applications of technology could lead to declines in per capita energy consumption.

Advances in distributed generation technologies that produce power, including fuel cells, microturbines, wind turbines and solar cells, may reduce the cost of alternative methods of producing power to a level competitive with central power station electric production utilized by the Duke Energy Registrants.

Some or all of these factors could result in a lack of growth or decline in customer demand for electricity or number of customers and may cause the failure of the Duke Energy Registrants to fully realize anticipated benefits from significant capital investments and expenditures, which could have a material adverse effect on their results of operations, financial position and cash flows.

Furthermore, the Duke Energy Registrants currently have EE riders in place to recover the cost of EE programs in North Carolina, South Carolina, Florida, Indiana, Ohio and Kentucky. Should the Duke Energy Registrants be required to invest in conservation measures that result in reduced sales from effective conservation, regulatory lag in adjusting rates for the impact of these measures could have a negative financial impact.

The Duke Energy Registrants future results may be impacted by changing customer expectations and demands including heightened emphasis on environmental, social and governance concerns.

Duke Energy's outcomes are influenced by the expectations of our customers and stakeholders. Those expectations are based on the core fundamentals of reliability and affordability but are also increasingly focused on our ability to meet rapidly changing demands for new and varied products, services and offerings. Additionally, the risks of global climate change continues to shape our customers' sustainability goals and energy needs. Failure to meet those expectations or to adequately address the risks and external pressures from regulators, investors and other stakeholders may impact favorable outcomes in future rate cases and the results of operations for the Duke Energy Registrants.

The Duke Energy Registrants' operating results may fluctuate on a seasonal and quarterly basis and can be negatively affected by changes in weather conditions and severe weather, including extreme weather conditions associated with climate change.

Electric power generation and natural gas distribution are generally seasonal businesses. In most parts of the U.S., the demand for power peaks during the warmer summer months, with market prices also typically peaking at that time. In other areas, demand for power peaks during the winter. Demand for natural gas peaks during the winter months. Further, extreme weather conditions such as hurricanes, droughts, heat waves, winter storms and severe weather associated with climate change could cause these seasonal fluctuations to be more pronounced. As a result, the overall operating results of the Duke Energy Registrants' businesses may fluctuate substantially on a seasonal and quarterly basis and thus make period-to-period comparison less relevant.

RISK FACTORS

Sustained severe drought conditions could impact generation by hydroelectric plants, as well as fossil and nuclear plant operations, as these facilities use water for cooling purposes and for the operation of environmental compliance equipment. Furthermore, destruction caused by severe weather events, such as hurricanes, flooding, tornadoes, severe thunderstorms, snow and ice storms, can result in lost operating revenues due to outages, property damage, including downed transmission and distribution lines, and additional and unexpected expenses to mitigate storm damage. The cost of storm restoration efforts may not be fully recoverable through the regulatory process.

The Duke Energy Registrants' sales may decrease if they are unable to gain adequate, reliable and affordable access to transmission assets.

The Duke Energy Registrants depend on transmission and distribution facilities owned and operated by utilities and other energy companies to deliver electricity sold to the wholesale market. The FERC's power transmission regulations require wholesale electric transmission services to be offered on an open-access, non-discriminatory basis. If transmission is disrupted, or if transmission capacity is inadequate, the Duke Energy Registrants' ability to sell and deliver products may be hindered.

The different regional power markets have changing regulatory structures, which could affect growth and performance in these regions. In addition, the ISOs who oversee the transmission systems in regional power markets have imposed in the past, and may impose in the future, price limitations and other mechanisms to address volatility in the power markets. These types of price limitations and other mechanisms may adversely impact the profitability of the Duke Energy Registrants' wholesale power marketing business.

The availability of adequate interstate pipeline transportation capacity and natural gas supply may decrease.

The Duke Energy Registrants purchase almost all of their natural gas supply from interstate sources that must be transported to the applicable service territories. Interstate pipeline companies transport the natural gas to the Duke Energy Registrants' systems under firm service agreements that are designed to meet the requirements of their core markets. A significant disruption to interstate pipelines capacity or reduction in natural gas supply due to events including, but not limited to, operational failures or disruptions, hurricanes, tornadoes, floods, freeze off of natural gas wells, terrorist or cyberattacks or other acts of war or legislative or regulatory actions or requirements, including remediation related to integrity inspections, could reduce the normal interstate supply of natural gas and thereby reduce earnings. Moreover, if additional natural gas infrastructure, including, but not limited to, exploration and drilling rigs and platforms, processing and gathering systems, offshore pipelines, interstate pipelines and storage, cannot be built at a pace that meets demand, then growth opportunities could be limited.

Fluctuations in commodity prices or availability may adversely affect various aspects of the Duke Energy Registrants' operations as well as their results of operations, financial position and cash flows.

The Duke Energy Registrants are exposed to the effects of market fluctuations in the price of natural gas, coal, fuel oil, nuclear fuel, electricity and other energy-related commodities as a result of their ownership of energy-related assets. Fuel costs are recovered primarily through cost-recovery clauses, subject to the approval of state utility commissions.

Additionally, the Duke Energy Registrants are exposed to risk that counterparties will not be able to fulfill their obligations. Disruption in the delivery of fuel, including disruptions as a result of, among other things, bankruptcies, transportation delays, weather, labor relations, force majeure events or environmental regulations affecting any of these fuel suppliers, could limit the Duke Energy Registrants' ability to operate their facilities. Should counterparties fail to perform, the Duke Energy Registrants might be forced to replace the underlying commitment at prevailing market prices possibly resulting in losses in addition to the amounts, if any, already paid to the counterparties.

Certain of the Duke Energy Registrants' hedge agreements may result in the receipt of, or posting of, collateral with counterparties, depending on the daily market-based calculation of financial exposure of the derivative positions. Fluctuations in commodity prices that lead to the return of collateral received and/or the posting of collateral with counterparties could negatively impact liquidity. Downgrades in the Duke Energy Registrants' credit ratings could lead to additional collateral posting requirements. The Duke Energy Registrants continually monitor derivative positions in relation to market price activity.

Cyberattacks and data security breaches could adversely affect the Duke Energy Registrants' businesses.

Cybersecurity risks have increased in recent years as a result of the proliferation of new technologies and the increased sophistication, magnitude and frequency of cyberattacks and data security breaches. Duke Energy relies on the continued operation of sophisticated digital information technology systems and network infrastructure, which are part of an interconnected regional grid. Additionally, connectivity to the internet continues to increase through grid modernization and other operational excellence initiatives. Because of the critical nature of the infrastructure, increased connectivity to the internet and technology systems' inherent vulnerability to disability or failures due to hacking, viruses, acts of war or terrorism or other types of data security breaches, the Duke Energy Registrants face a heightened risk of cyberattack from foreign or domestic sources and have been subject, and will likely continue to be subject, to attempts to gain unauthorized access to information and/or information systems or to disrupt utility operations through computer viruses and phishing attempts either directly or indirectly through its material vendors or related third parties. In the event of a significant cybersecurity breach on either the Duke Energy Registrants or with one of our material vendors or related third parties, the Duke Energy Registrants could (i) have business operations disrupted, including the disruption of the operation of our assets and the power grid, theft of confidential company, employee, retiree, shareholder, vendor or customer information, and general business systems and process interruption or compromise, including preventing the Duke Energy Registrants from servicing customers, collecting revenues or the recording, processing and/or reporting financial information correctly, (ii) experience substantial loss of revenues, repair and restoration costs, penalties and costs for lack of compliance with relevant regulations, implementation costs for additional security measures to avert future cyberattacks and other financial loss and (iii) be subject to increased regulation, litigation and reputational damage. While Duke Energy maintains insurance relating to cybersecurity events, such insurance is subject to a number of exclusions and may be insufficient to offset any losses, costs or damage experienced. Also, the market for cybersecurity insurance is relatively new and coverage available for cybersecurity events is evolving as the industry matures.

RISK FACTORS

The Duke Energy Registrants are subject to standards enacted by the North American Electric Reliability Corporation and enforced by FERC regarding protection of the physical and cyber security of critical infrastructure assets required for operating North America's bulk electric system. The Duke Energy Registrants are also subject to regulations set by the Nuclear Regulatory Commission regarding the protection of digital computer and communication systems and networks required for the operation of nuclear power plants. While the Duke Energy Registrants believe they are in compliance with such standards and regulations, the Duke Energy Registrants have from time to time been, and may in the future be, found to be in violation of such standards and regulations. In addition, compliance with or changes in the applicable standards and regulations may subject the Duke Energy Registrants to higher operating costs and/or increased capital expenditures as well as substantial fines for non-compliance.

Duke Energy Ohio's and Duke Energy Indiana's membership in an RTO presents risks that could have a material adverse effect on their results of operations, financial position and cash flows.

The rules governing the various regional power markets may change, which could affect Duke Energy Ohio's and Duke Energy Indiana's costs and/or revenues. To the degree Duke Energy Ohio and Duke Energy Indiana incur significant additional fees and increased costs to participate in an RTO, their results of operations may be impacted. Duke Energy Ohio and Duke Energy Indiana may be allocated a portion of the cost of transmission facilities built by others due to changes in RTO transmission rate design. Duke Energy Ohio and Duke Energy Indiana may be required to expand their transmission system according to decisions made by an RTO rather than their own internal planning process. In addition, RTOs have been developing rules associated with the allocation and methodology of assigning costs associated with improved transmission reliability, reduced transmission congestion and firm transmission rights that may have a financial impact on the results of operations, financial position and cash flows of Duke Energy Ohio and Duke Energy Indiana.

As members of an RTO, Duke Energy Ohio and Duke Energy Indiana are subject to certain additional risks, including those associated with the allocation among RTO members, of losses caused by unreimbursed defaults of other participants in the RTO markets and those associated with complaint cases filed against an RTO that may seek refunds of revenues previously earned by RTO members.

The Duke Energy Registrants may not recover costs incurred to begin construction on projects that are canceled.

Duke Energy's long-term strategy requires the construction of new projects, either wholly owned or partially owned, which involve a number of risks, including construction delays, nonperformance by equipment and other third-party suppliers, and increases in equipment and labor costs. To limit the risks of these construction projects, the Duke Energy Registrants enter into equipment purchase orders and construction contracts and incur engineering and design service costs in advance of receiving necessary regulatory approvals and/or siting or environmental permits. If any of these projects are canceled for any reason, including failure to receive necessary regulatory approvals and/or siting or environmental permits, significant cancellation penalties under the equipment purchase orders and construction contracts could occur. In addition, if any construction work or investments have been recorded as an asset, an impairment may need to be recorded in the event the project is canceled.

The Duke Energy Registrants are subject to risks associated with their ability to obtain adequate insurance at acceptable costs.

The financial condition of some insurance companies, actual or threatened physical or cyberattacks, and natural disasters, among other things, could have disruptive effects on insurance markets. The availability of insurance covering risks that the Duke Energy Registrants and their respective competitors typically insure against may decrease, and the insurance that the Duke Energy Registrants are able to obtain may have higher deductibles, higher premiums, and more restrictive policy terms. Further, the insurance policies may not cover all of the potential exposures or the actual amount of loss incurred. Any losses not covered by insurance, or any increases in the cost of applicable insurance, could adversely affect the results of operations, financial position or cash flows of the affected Duke Energy Registrant.

NUCLEAR GENERATION RISKS

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida may incur substantial costs and liabilities due to their ownership and operation of nuclear generating facilities.

Ownership interests in and operation of nuclear stations by Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida subject them to various risks. These risks include, among other things: the potential harmful effects on the environment and human health resulting from the current or past operation of nuclear facilities and the storage, handling and disposal of radioactive materials; limitations on the amounts and types of insurance commercially available to cover losses that might arise in connection with nuclear operations; and uncertainties with respect to the technological and financial aspects of decommissioning nuclear plants at the end of their licensed lives.

Ownership and operation of nuclear generation facilities requires compliance with licensing and safety-related requirements imposed by the NRC. In the event of non-compliance, the NRC may increase regulatory oversight, impose fines or shut down a unit depending upon its assessment of the severity of the situation. Revised security and safety requirements promulgated by the NRC, which could be prompted by, among other things, events within or outside of the control of Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, such as a serious nuclear incident at a facility owned by a third party, could necessitate substantial capital and other expenditures, as well as assessments to cover third-party losses. In addition, if a serious nuclear incident were to occur, it could have a material adverse effect on the results of operations, financial position, cash flows and reputation of the Duke Energy Registrants.

RISK FACTORS

LIQUIDITY, CAPITAL REQUIREMENTS AND COMMON STOCK RISKS

The Duke Energy Registrants rely on access to short-term borrowings and longer-term debt and equity markets to finance their capital requirements and support their liquidity needs. Access to those markets can be adversely affected by a number of conditions, many of which are beyond the Duke Energy Registrants' control.

The Duke Energy Registrants' businesses are significantly financed through issuances of debt and equity. The maturity and repayment profile of debt used to finance investments often does not correlate to cash flows from their assets. Accordingly, as a source of liquidity for capital requirements not satisfied by the cash flows from their operations and to fund investments originally financed through debt instruments with disparate maturities, the Duke Energy Registrants rely on access to short-term money markets as well as longer-term capital markets. The Subsidiary Registrants also rely on access to short-term intercompany borrowings. If the Duke Energy Registrants are not able to access debt or equity at competitive rates or at all, the ability to finance their operations and implement their strategy and business plan as scheduled could be adversely affected. An inability to access debt and equity may limit the Duke Energy Registrants' ability to pursue improvements or acquisitions that they may otherwise rely on for future growth.

Market disruptions may increase the cost of borrowing or adversely affect the ability to access one or more financial markets. Such disruptions could include: economic downturns, the bankruptcy of an unrelated energy company, unfavorable capital market conditions, market prices for electricity and natural gas, actual or threatened terrorist attacks, or the overall health of the energy industry. The availability of credit under Duke Energy's Master Credit Facility depends upon the ability of the banks providing commitments under the facility to provide funds when their obligations to do so arise. Systematic risk of the banking system and the financial markets could prevent a bank from meeting its obligations under the facility agreement.

Duke Energy maintains a revolving credit facility to provide backup for its commercial paper program and letters of credit to support variable rate demand tax-exempt bonds that may be put to the Duke Energy Registrant issuer at the option of the holder. The facility includes borrowing sublimits for the Duke Energy Registrants, each of whom is a party to the credit facility, and financial covenants that limit the amount of debt that can be outstanding as a percentage of the total capital for the specific entity. Failure to maintain these covenants at a particular entity could preclude Duke Energy from issuing commercial paper or the Duke Energy Registrants from issuing letters of credit or borrowing under the Master Credit Facility.

The Duke Energy Registrants must meet credit quality standards and there is no assurance they will maintain investment grade credit ratings. If the Duke Energy Registrants are unable to maintain investment grade credit ratings, they would be required under credit agreements to provide collateral in the form of letters of credit or cash, which may materially adversely affect their liquidity.

Each of the Duke Energy Registrants' senior long-term debt issuances is currently rated investment grade by various rating agencies. The Duke Energy Registrants cannot ensure their senior long-term debt will be rated investment grade in the future.

If the rating agencies were to rate the Duke Energy Registrants below investment grade, borrowing costs would increase, perhaps significantly. In addition, the potential pool of investors and funding sources would likely decrease. Further, if the short-term debt rating were to fall, access to the commercial paper market could be significantly limited.

A downgrade below investment grade could also require the posting of additional collateral in the form of letters of credit or cash under various credit, commodity and capacity agreements and trigger termination clauses in some interest rate derivative agreements, which would require cash payments. All of these events would likely reduce the Duke Energy Registrants' liquidity and profitability and could have a material effect on their results of operations, financial position and cash flows.

Non-compliance with debt covenants or conditions could adversely affect the Duke Energy Registrants' ability to execute future borrowings.

The Duke Energy Registrants' debt and credit agreements contain various financial and other covenants. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements.

Market performance and other changes may decrease the value of the NDTF investments of Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, which then could require significant additional funding.

Ownership and operation of nuclear generation facilities also requires the maintenance of funded trusts that are intended to pay for the decommissioning costs of the respective nuclear power plants. The performance of the capital markets affects the values of the assets held in trust to satisfy these future obligations. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida have significant obligations in this area and hold significant assets in these trusts. These assets are subject to market fluctuations and will yield uncertain returns, which may fall below projected rates of return. Although a number of factors impact funding requirements, a decline in the market value of the assets may increase the funding requirements of the obligations for decommissioning nuclear plants. If Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are unable to successfully manage their NDTF assets, their results of operations, financial position and cash flows could be negatively affected.

RISK FACTORS

Poor investment performance of the Duke Energy pension plan holdings and other factors impacting pension plan costs could unfavorably impact the Duke Energy Registrants' liquidity and results of operations.

The costs of providing non-contributory defined benefit pension plans are dependent upon a number of factors, such as the rates of return on plan assets, discount rates, the level of interest rates used to measure the required minimum funding levels of the plans, future government regulation and required or voluntary contributions made to the plans. The Subsidiary Registrants are allocated their proportionate share of the cost and obligations related to these plans. Without sustained growth in the pension investments over time to increase the value of plan assets and, depending upon the other factors impacting costs as listed above, Duke Energy could be required to fund its plans with significant amounts of cash. Such cash funding obligations, and the Subsidiary Registrants' proportionate share of such cash funding obligations, could have a material impact on the Duke Energy Registrants' results of operations, financial position and cash flows.

Duke Energy is a holding company and depends on the cash flows from its subsidiaries to meet its financial obligations.

Because Duke Energy is a holding company with no operations or cash flows of its own, its ability to meet its financial obligations, including making interest and principal payments on outstanding indebtedness and to pay dividends on its common stock, is primarily dependent on the net income and cash flows of its subsidiaries and the ability of those subsidiaries to pay upstream dividends or to repay borrowed funds. Prior to funding Duke Energy, its subsidiaries have regulatory restrictions and financial obligations that must be satisfied. These subsidiaries are separate legal entities and have no obligation to provide Duke Energy with funds. In addition, Duke Energy may provide capital contributions or debt financing to its subsidiaries under certain circumstances, which would reduce the funds available to meet its financial obligations, including making interest and principal payments on outstanding indebtedness and to pay dividends on Duke Energy's common stock.

GENERAL RISKS

The failure of Duke Energy information technology systems, or the failure to enhance existing information technology systems and implement new technology, could adversely affect the Duke Energy Registrants' businesses.

Duke Energy's operations are dependent upon the proper functioning of its internal systems, including the information technology systems that support our underlying business processes. Any significant failure or malfunction of such information technology systems may result in disruptions of our operations. In the ordinary course of business, we rely on information technology systems, including the internet and third-party hosted services, to support a variety of business processes and activities and to store sensitive data, including (i) intellectual property, (ii) proprietary business information, (iii) personally identifiable information of our customers, employees, retirees and shareholders and (iv) data with respect to invoicing and the collection of payments, accounting, procurement, and supply chain activities. Our information technology systems are dependent upon global communications and cloud service providers, as well as their respective vendors, many of whom have at some point experienced significant system failures and outages in the past and may experience such failures and outages in the future. These providers' systems are susceptible to cybersecurity and data breaches, outages from fire, floods, power loss, telecommunications failures, break-ins and similar events. Failure to prevent or mitigate data loss from system failures or outages could materially affect the results of operations, financial position and cash flows of the Duke Energy Registrants.

In addition to maintaining our current information technology systems, Duke Energy believes the digital transformation of its business is key to driving internal efficiencies as well as providing additional capabilities to customers. Duke Energy's information technology systems are critical to cost-effective, reliable daily operations and our ability to effectively serve our customers. We expect our customers to continue to demand more sophisticated technology-driven solutions and we must enhance or replace our information technology systems in response. This involves significant development and implementation costs to keep pace with changing technologies and customer demand. If we fail to successfully implement critical technology, or if it does not provide the anticipated benefits or meet customer demands, such failure could materially adversely affect our business strategy as well as impact the results of operations, financial position and cash flows of the Duke Energy Registrants.

Potential terrorist activities, or military or other actions, could adversely affect the Duke Energy Registrants' businesses.

The continued threat of terrorism and the impact of retaliatory military and other action by the U.S. and its allies may lead to increased political, economic and financial market instability and volatility in prices for natural gas and oil, which may have material adverse effects in ways the Duke Energy Registrants cannot predict at this time. In addition, future acts of terrorism and possible reprisals as a consequence of action by the U.S. and its allies could be directed against companies operating in the U.S. Information technology systems, transmission and distribution and generation facilities such as nuclear plants could be potential targets of terrorist activities or harmful activities by individuals or groups that could have a material adverse effect on Duke Energy Registrants' businesses. In particular, the Duke Energy Registrants may experience increased capital and operating costs to implement increased security for their information technology systems, transmission and distribution and generation facilities, including nuclear power plants under the NRC's design basis threat requirements. These increased costs could include additional physical plant security and security personnel or additional capability following a terrorist incident.

Failure to attract and retain an appropriately qualified workforce could unfavorably impact the Duke Energy Registrants' results of operations.

Certain events, such as an aging workforce, mismatch of skill set or complement to future needs, or unavailability of contract resources may lead to operating challenges and increased costs. The challenges include lack of resources, loss of knowledge base and the lengthy time required for skill development. In this case, costs, including costs for contractors to replace employees, productivity costs and safety costs, may increase. Failure to hire and adequately train replacement employees, including the transfer of significant internal historical knowledge and expertise to new employees, or future availability and cost of contract labor may adversely affect the ability to manage and operate the business, especially considering the workforce needs associated with nuclear generation facilities and new skills required to operate a modernized, technology-enabled power grid. If the Duke Energy Registrants are unable to successfully attract and retain an appropriately qualified workforce, their results of operations, financial position and cash flows could be negatively affected.

UNRESOLVED STAFF COMMENTS

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

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PROPERTIES

ITEM 2. PROPERTIES

ELECTRIC UTILITIES AND INFRASTRUCTURE

The following table provides information related to the Electric Utilities and Infrastructure's generation stations as of December 31, 2020. The MW displayed in the table below are based on summer capacity. Ownership interest in all facilities is 100% unless otherwise indicated.

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Carolinas				
Oconee	Nuclear	Uranium	SC	2,554
McGuire	Nuclear	Uranium	NC	2,316
Catawba ^(a)	Nuclear	Uranium	SC	445
Belews Creek	Fossil	Coal/Gas	NC	2,220
Marshall	Fossil	Coal/Gas	NC	2,058
J.E. Rogers	Fossil	Coal/Gas	NC	1,388
Lincoln Combustion Turbine (CT)	Fossil	Gas/Oil	NC	1,193
Allen	Fossil	Coal	NC	1,098
Rockingham CT	Fossil	Gas/Oil	NC	825
W.S. Lee Combined Cycle (CC) ^(b)	Fossil	Gas	SC	686
Buck CC	Fossil	Gas	NC	668
Dan River CC	Fossil	Gas	NC	662
Mill Creek CT	Fossil	Gas/Oil	SC	563
W.S. Lee	Fossil	Gas	SC	170
W.S. Lee CT	Fossil	Gas/Oil	SC	84
Clemson CHP	Fossil	Gas	SC	13
Bad Creek	Hydro	Water	SC	1,440
Jocassee	Hydro	Water	SC	780
Cowans Ford	Hydro	Water	NC	324
Keowee	Hydro	Water	SC	152
Other small facilities (19 plants)	Hydro	Water	NC/SC	603
Distributed generation	Renewable	Solar	NC	38
Total Duke Energy Carolinas				20,280

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PROPERTIES

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Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Progress				
Brunswick	Nuclear	Uranium	NC	1,870
Harris	Nuclear	Uranium	NC	964
Robinson	Nuclear	Uranium	SC	759
Roxboro	Fossil	Coal	NC	2,439
Smith CC	Fossil	Gas/Oil	NC	1,085
H.F. Lee CC	Fossil	Gas/Oil	NC	888
Wayne County CT	Fossil	Gas/Oil	NC	857
Smith CT	Fossil	Gas/Oil	NC	772
Mayo	Fossil	Coal	NC	727
L.V. Sutton CC	Fossil	Gas/Oil	NC	607
Asheville CC	Fossil	Gas/Oil	NC	474
Asheville CT	Fossil	Gas/Oil	NC	320
Darlington CT	Fossil	Gas/Oil	SC	234
Weatherspoon CT	Fossil	Gas/Oil	NC	124
L.V. Sutton CT (Black Start)	Fossil	Gas/Oil	NC	78
Blewett CT	Fossil	Oil	NC	52
Walters	Hydro	Water	NC	112
Other small facilities (3)	Hydro	Water	NC	115
Distributed generation	Renewable	Solar	NC	49
Asheville – Rock Hill Battery	Renewable	Storage	NC	7
Total Duke Energy Progress				12,533

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Florida				
Hines CC	Fossil	Gas/Oil	FL	2,054
Citrus County CC	Fossil	Gas	FL	1,610
Crystal River	Fossil	Coal	FL	1,422
Bartow CC	Fossil	Gas/Oil	FL	1,169
Anclore	Fossil	Gas	FL	1,013
Intercession City CT	Fossil	Gas/Oil	FL	951
Osprey CC	Fossil	Gas/Oil	FL	583
DeBary CT	Fossil	Gas/Oil	FL	559
Tiger Bay CC	Fossil	Gas/Oil	FL	200
Bayboro CT	Fossil	Oil	FL	171
Bartow CT	Fossil	Gas/Oil	FL	168
Suwannee River CT	Fossil	Gas	FL	149
University of Florida CoGen CT	Fossil	Gas	FL	43
Distributed generation	Renewable	Solar	FL	195
Total Duke Energy Florida				10,287

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Ohio				
East Bend	Fossil	Coal	KY	600
Woodsdale CT	Fossil	Gas/Propane	OH	476
Total Duke Energy Ohio				1,076

PROPERTIES

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity
Duke Energy Indiana				
Gibson ^(c)	Fossil	Coal	IN	2,822
Cayuga ^(d)	Fossil	Coal/Oil	IN	1,005
Edwardsport	Fossil	Coal	IN	595
Madison CT	Fossil	Gas	OH	566
Wheatland CT	Fossil	Gas	IN	450
Vermillion CT ^(e)	Fossil	Gas	IN	360
Gallagher	Fossil	Coal	IN	280
Noblesville CC	Fossil	Gas/Oil	IN	264
Henry County CT	Fossil	Gas/Oil	IN	129
Cayuga CT	Fossil	Gas/Oil	IN	86
Markland	Hydro	Water	IN	51
Distributed generation	Renewable	Solar	IN	11
Camp Atterbury Battery	Renewable	Storage	IN	4
Nabb Battery	Renewable	Storage	IN	4
Crane Battery	Renewable	Storage	IN	4
Total Duke Energy Indiana				6,631

Totals by Type	Owned MW Capacity
Total Electric Utilities	50,807
Totals by Plant Type	
Nuclear	8,908
Fossil	38,010
Hydro	3,577
Renewable	312
Total Electric Utilities	50,807

- (a) Jointly owned with North Carolina Municipal Power Agency Number 1, NCEMC and PMPA. Duke Energy Carolinas' ownership is 19.25% of the facility.
- (b) Jointly owned with NCEMC. Duke Energy Carolinas' ownership is 87.27% of the facility.
- (c) Duke Energy Indiana owns and operates Gibson Station Units 1 through 4 and is a joint owner of unit 5 with WVPA and IMPA. Duke Energy Indiana operates unit 5 and owns 50.05%.
- (d) Includes Cayuga Internal Combustion.
- (e) Jointly owned with WVPA. Duke Energy Indiana's ownership is 62.5% of the facility.

The following table provides information related to Electric Utilities and Infrastructure's electric transmission and distribution properties as of December 31, 2020.

	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Electric Transmission Lines						
Miles of 500 to 525 kilovolt (kV)	1,100	600	300	200	—	—
Miles of 345 kV	1,100	—	—	—	400	700
Miles of 230 kV	8,400	2,700	3,400	1,600	—	700
Miles of 100 to 161 kV	12,400	6,800	2,600	900	700	1,400
Miles of 13 to 69 kV	8,300	3,000	—	2,200	600	2,500
Total conductor miles of electric transmission lines	31,300	13,100	6,300	4,900	1,700	5,300
Electric Distribution Lines						
Miles of overhead lines	173,500	66,600	46,400	25,100	13,300	22,100
Miles of underground line	108,900	40,400	31,800	21,100	6,200	9,400
Total conductor miles of electric distribution lines	282,400	107,000	78,200	46,200	19,500	31,500
Number of electric transmission and distribution substations	3,200	1,400	500	500	300	500

Substantially all of Electric Utilities and Infrastructure's electric plant in service is mortgaged under indentures relating to Duke Energy Carolinas', Duke Energy Progress', Duke Energy Florida's, Duke Energy Ohio's and Duke Energy Indiana's various series of First Mortgage Bonds.

PROPERTIES

GAS UTILITIES AND INFRASTRUCTURE

Gas Utilities and Infrastructure owns transmission pipelines and distribution mains that are generally underground, located near public streets and highways, or on property owned by others for which Duke Energy Ohio and Piedmont have obtained the necessary legal rights to place and operate facilities on such property located within the Gas Utilities and Infrastructure service territories. The following table provides information related to Gas Utilities and Infrastructure's natural gas distribution.

	Duke Energy	Duke Energy Ohio	Piedmont
Miles of natural gas distribution and transmission pipelines	34,200	7,400	26,800
Miles of natural gas service lines	27,200	6,300	20,900

COMMERCIAL RENEWABLES

The following table provides information related to Commercial Renewables' electric generation facilities as of December 31, 2020. The MW displayed in the table below are based on nameplate capacity.

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity	Ownership Interest (%)
Commercial Renewables – Wind					
Los Vientos (five sites)	Renewable	Wind	TX	465	51 %
Mesteno ^(a)	Renewable	Wind	TX	202	100 %
Sweetwater IV	Renewable	Wind	TX	113	47 %
Frontier	Renewable	Wind	OK	103	51 %
Top of the World	Renewable	Wind	WY	102	51 %
Notrees	Renewable	Wind	TX	78	51 %
Mesquite Creek	Renewable	Wind	TX	54	26 %
Campbell Hill	Renewable	Wind	WY	50	51 %
Ironwood	Renewable	Wind	KS	44	26 %
Sweetwater V	Renewable	Wind	TX	38	47 %
North Allegheny	Renewable	Wind	PA	36	51 %
Laurel Hill	Renewable	Wind	PA	35	51 %
Cimarron II	Renewable	Wind	KS	34	26 %
Kit Carson	Renewable	Wind	CO	26	51 %
Silver Sage	Renewable	Wind	WY	21	51 %
Happy Jack	Renewable	Wind	WY	15	51 %
Shirley	Renewable	Wind	WI	10	51 %
Total Renewables – Wind				1,426	

PROPERTIES

Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity	Ownership Interest (%)
Commercial Renewables – Solar					
Holstein ^(a)	Renewable	Solar	TX	200	100 %
Rambler ^(a)	Renewable	Solar	TX	200	100 %
North Rosamond ^(a)	Renewable	Solar	CA	150	100 %
Lapetus ^(a)	Renewable	Solar	TX	100	100 %
Conetoe II	Renewable	Solar	NC	80	100 %
Palmer ^(a)	Renewable	Solar	CO	60	100 %
Seville I & II	Renewable	Solar	CA	34	67 %
Rio Bravo I & II	Renewable	Solar	CA	27	67 %
Wildwood I & II	Renewable	Solar	CA	23	67 %
Kelford	Renewable	Solar	NC	22	100 %
Dogwood	Renewable	Solar	NC	20	100 %
Halifax Airport	Renewable	Solar	NC	20	100 %
Pasquotank	Renewable	Solar	NC	20	100 %
Shawboro	Renewable	Solar	NC	20	100 %
Caprock	Renewable	Solar	NM	17	67 %
Creswell Alligood	Renewable	Solar	NC	14	100 %
Pumpjack	Renewable	Solar	CA	13	67 %
Longboat	Renewable	Solar	CA	13	67 %
Shoreham ^(a)	Renewable	Solar	NY	13	51 %
Washington White Post	Renewable	Solar	NC	12	100 %
Whitakers	Renewable	Solar	NC	12	100 %
Highlander I & II	Renewable	Solar	CA	11	51 %
Other small solar ^(a)	Renewable	Solar	Various	193	Various
Total Renewables – Solar				1,274	
Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity	Ownership Interest (%)
Commercial Renewables – Fuel Cells ^(a)					
Total Renewables – Fuel Cells				43	100 %
Facility	Plant Type	Primary Fuel	Location	Owned MW Capacity	Ownership Interest (%)
Commercial Renewables – Energy Storage					
Notrees Battery Storage	Renewable	Storage	TX	18	51 %
Beckjord Battery Storage	Renewable	Storage	OH	2	100 %
Total Renewables – Energy Storage				20	
Totals by Type				Owned MW Capacity	
Wind				1,426	
Solar				1,274	
Fuel Cells				43	
Energy Storage				20	
Total Commercial Renewables^(b)				2,763	

- (a) Certain projects, including projects within Other small solar, are in tax-equity structures where investors have differing interests in the project's economic attributes. 100% of the tax-equity project's capacity is included in the table above.
- (b) Net proportion of MW capacity in operation is 3,937, which represents the amount managed or owned by Duke Energy.

OTHER

Duke Energy owns approximately 8 million square feet and leases approximately 2 million square feet of corporate, regional and district office space spread throughout its service territories.

LEGAL PROCEEDINGS AND MINE SAFETY DISCLOSURES

ITEM 3. LEGAL PROCEEDINGS

For information regarding legal proceedings, including regulatory and environmental matters, see Note 3, "Regulatory Matters," and Note 4, "Commitments and Contingencies," to the Consolidated Financial Statements.

MTBE Litigation

On December 15, 2017, the state of Maryland filed suit in Baltimore City Circuit Court against Duke Energy Merchants and other defendants alleging contamination of state waters by MTBE leaking from gasoline storage tanks. MTBE is a gasoline additive intended to increase the oxygen levels in gasoline and make it burn cleaner. The case was removed from Baltimore City Circuit Court to federal District Court. Initial motions to dismiss filed by the defendants were denied by the court on September 4, 2019, and the matter is now in discovery. On December 18, 2020, the plaintiff and defendants selected 50 focus sites, none of which have any ties to Duke Energy Merchants, and discovery is likely to be specific to those sites. Duke Energy cannot predict the outcome of this matter.

ITEM 4. MINE SAFETY DISCLOSURES

This is not applicable for any of the Duke Energy Registrants.

SECURITIES INFORMATION

ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

The common stock of Duke Energy is listed and traded on the NYSE (ticker symbol DUK). As of January 31, 2021, there were 136,857 Duke Energy common stockholders of record. For information on dividends, see the "Dividend Payments" section of Management's Discussion and Analysis.

There is no market for the common equity securities of the Subsidiary Registrants, all of which are directly or indirectly owned by Duke Energy. See Note 1, "Summary of Significant Accounting Policies," to the Consolidated Financial Statements for information on the 2021 sale of a minority interest in Duke Energy Indiana.

Securities Authorized for Issuance Under Equity Compensation Plans

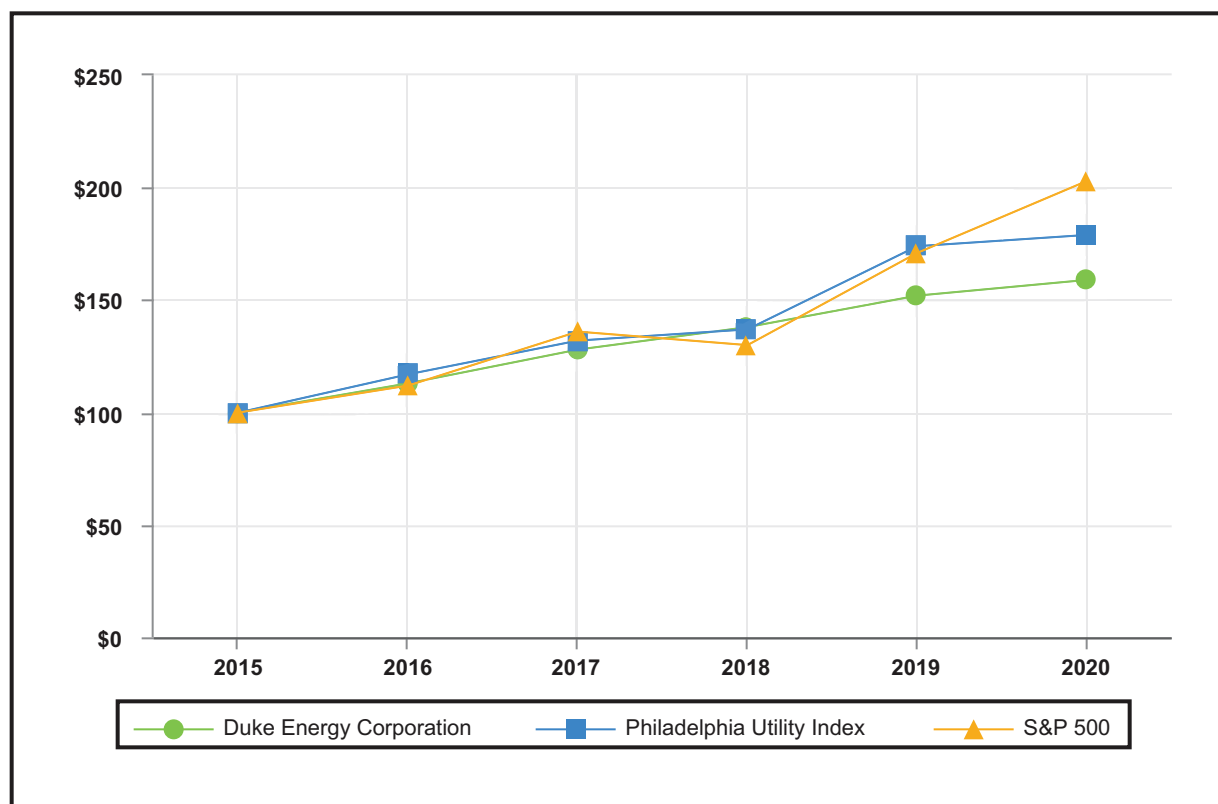
See Item 12 of Part III within this Annual Report for information regarding Securities Authorized for Issuance Under Equity Compensation Plans.

Issuer Purchases of Equity Securities for Fourth Quarter 2020

There were no repurchases of equity securities during the fourth quarter of 2020.

Stock Performance Graph

The following performance graph compares the cumulative TSR from Duke Energy Corporation common stock, as compared with the Standard & Poor's 500 Stock Index (S&P 500) and the Philadelphia Utility Index for the past five years. The graph assumes an initial investment of \$100 on December 31, 2015, in Duke Energy common stock, in the S&P 500 and in the Philadelphia Utility Index and that all dividends were reinvested. The stockholder return shown below for the five-year historical period may not be indicative of future performance.



NYSE CEO Certification

Duke Energy has filed the certification of its Chief Executive Officer and Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 as exhibits to this Annual Report on Form 10-K for the year ended December 31, 2020.

ITEM 6. SELECTED FINANCIAL DATA

This is not applicable for any of the Duke Energy Registrants.

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Management's Discussion and Analysis includes financial information prepared in accordance with GAAP in the U.S., as well as certain non-GAAP financial measures such as adjusted earnings and adjusted EPS discussed below. Generally, a non-GAAP financial measure is a numerical measure of financial performance, financial position or cash flows that excludes (or includes) amounts that are included in (or excluded from) the most directly comparable measure calculated and presented in accordance with GAAP. The non-GAAP financial measures should be viewed as a supplement to, and not a substitute for, financial measures presented in accordance with GAAP. Non-GAAP measures as presented herein may not be comparable to similarly titled measures used by other companies.

The following combined Management's Discussion and Analysis of Financial Condition and Results of Operations is separately filed by Duke Energy Corporation and its subsidiaries. Duke Energy Carolinas, LLC, Progress Energy, Inc., Duke Energy Progress, LLC, Duke Energy Florida, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC and Piedmont Natural Gas Company, Inc. However, none of the registrants make any representation as to information related solely to Duke Energy or the subsidiary registrants of Duke Energy other than itself.

Management's Discussion and Analysis should be read in conjunction with the Consolidated Financial Statements and Notes for the years ended December 31, 2020, 2019 and 2018.

See "Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations," in Duke Energy's Annual Report on Form 10-K for the year ended December 31, 2019, filed with the SEC on February 20, 2020, for a discussion of variance drivers for the year ended December 31, 2019, as compared to December 31, 2018.

DUKE ENERGY

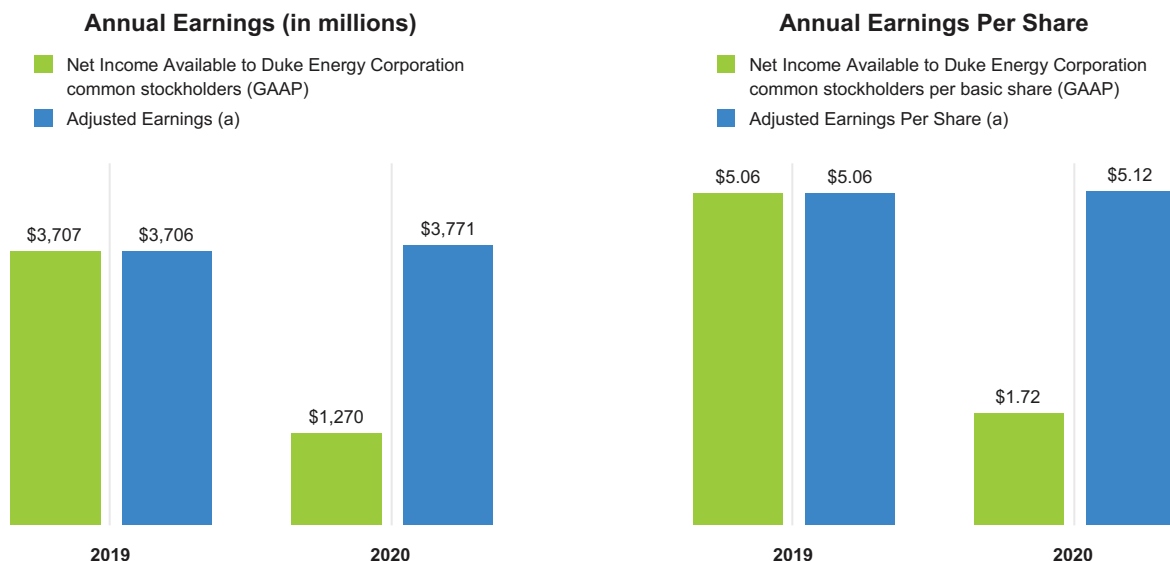
Duke Energy is an energy company headquartered in Charlotte, North Carolina. Duke Energy operates in the U.S. primarily through its wholly owned subsidiaries, Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont. When discussing Duke Energy's consolidated financial information, it necessarily includes the results of the Subsidiary Registrants, which along with Duke Energy, are collectively referred to as the Duke Energy Registrants.

Executive Overview

At Duke Energy the fundamentals of our business are strong and allow us to deliver growth in earnings and dividends in a low-risk, predictable and transparent way. In 2020, we met our near-term financial commitments and continued to provide safe and reliable service while managing the impacts of the COVID-19 pandemic.

In early 2021, we continued to position the company for sustainable long-term growth, executing an important coal ash settlement agreement in North Carolina and announcing the \$2 billion sale of a minority interest in Duke Energy Indiana, providing a source of efficient capital at an attractive valuation. We remain focused on a business portfolio that will deliver a reliable and growing dividend with 2020 representing the 94th consecutive year Duke Energy paid a cash dividend on its common stock. With these recent announcements, we also increased our long-term adjusted EPS growth rate to 5% to 7% through 2025. This growth is supported by our \$59 billion capital plan from 2021 to 2025, clean energy investments that benefit our customers, timely cost-recovery mechanisms in most jurisdictions and our ability to effectively manage our cost structure.

Financial Results



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- (a) See Results of Operations below for Duke Energy's definition of adjusted earnings and adjusted EPS as well as a reconciliation of this non-GAAP financial measure to net income available to Duke Energy and net income available to Duke Energy per basic share.

Duke Energy's 2020 Net Income Available to Duke Energy Corporation (GAAP Reported Earnings) were impacted by: regulatory settlements related to coal ash cost recovery in Electric Utilities and Infrastructure; the cancellation of the ACP pipeline in Gas Utilities and Infrastructure; and growth in project investments in Commercial Renewables. See "Results of Operations" below for a detailed discussion of the consolidated results of operations and a detailed discussion of financial results for each of Duke Energy's reportable business segments, as well as Other.

2020 Areas of Focus and Accomplishments

Clean Energy Transformation. Our industry has been undergoing an incredible transformation and 2020 was a milestone year for our company where we articulated a clear vision for the future and outlined investments to achieve a clean energy future for our customers. We continue to transform the customer experience by generating cleaner energy, modernizing the energy grid, and expanding natural gas infrastructure.

Generating Cleaner Energy

In October 2020, we held our first-ever Environmental, Social, and Governance (ESG) Day for investors, successfully outlining our climate strategy and highlighting our strong progress to date in reducing carbon (a greater than 40% reduction from 2005) and our commitment to do more (at least 50% reduction by 2030 and net-zero by 2050). In the Carolinas, we participated in extensive stakeholder processes focused on carbon reduction and regulatory reform and filed comprehensive IRP consistent with that strategy. Our planned coal retirements and transition to cleaner energy sources in the Carolinas are some of the largest in the industry. We also committed to an all-electric light-duty fleet and 50% of all medium- and heavy-duty vehicles by 2030 – a pledge that also leads our industry. Our commitment for 2030 includes retiring plants, operating our existing carbon-free resources and investing in renewables, our energy delivery system, and natural gas infrastructure. As we look beyond 2030, we will need additional tools to continue our progress. We will work actively to advocate for research and development of carbon-free, dispatchable resources. That includes longer-duration energy storage, advanced nuclear technologies, carbon capture and zero-carbon fuels.

Modernizing the Power Grid

Our grid improvement programs continue to be a key component of our growth strategy. Modernization of the electric grid, including smart meters, storm hardening, self-healing and targeted undergrounding, helps to ensure the system is better prepared for severe weather, improves the system's reliability and flexibility, and provides better information and services for customers. In 2020, 98% of our jurisdictions were equipped with smart meters and we remain on track to be fully deployed across all regions by the end of this year. We continue to expand our self-optimizing grid capabilities, and in 2020, smart, self-healing technologies helped to avoid more than 800,000 extended customer outages across our six-state electric service area, saving customers more than 1.8 million hours of lost outage time. Duke Energy also has a demonstrated track record of driving efficiencies and productivity into the business and we continue to leverage new technology, digital tools and data analytics across the business in response to a transforming landscape.

Expanding Natural Gas Infrastructure

In July 2020, Duke Energy and Dominion announced the cancellation of the ACP pipeline. Litigation risks and delays presented too much uncertainty on our ability to economically complete the project on schedule to meet our customers' needs. Additionally, Dominion reached a decision to exit their natural gas transmission business, further impeding our ability to consider ongoing investment in the project. The Company remains committed to pursuing natural gas infrastructure investments and continues to explore additional resources in eastern North Carolina for the Piedmont system and securing more transport capacity to support power generation. Construction is expected to be completed this year on a liquefied natural gas facility in Robeson County, North Carolina, on property Piedmont owns. This investment will help Piedmont provide a reliable gas supply to customers during peak usage periods and protect customers from price volatility when there is a higher-than-normal demand for natural gas. In the fall of 2020, recognizing the continued importance of natural gas to our plans, we announced a net-zero methane emission goal by 2030 related to our gas distribution business, as well as our commitment to lead on reduction of upstream methane emissions through work with our natural gas supply chain.

Constructive Regulatory and Legislative Outcomes. One of our long-term strategic goals is to achieve modernized regulatory constructs in our jurisdictions. Modernized constructs provide benefits, which include improved earnings and cash flows through more timely recovery of investments, as well as stable pricing for customers.

In 2020, we conducted the bulk of proceedings related to our North Carolina rate cases for both Duke Energy Carolinas and Duke Energy Progress and achieved a partial settlement with the North Carolina Public Staff and ten other intervening parties. In January 2021, Duke Energy Carolinas and Duke Energy Progress reached an important settlement agreement, which subject to NCUC approval, resolves historical coal ash prudence and cost recovery issues and provides clarity on coal ash cost recovery for the next decade. In 2020, we also achieved constructive rate case outcomes in Indiana (our first rate base request in 15 years) and Kentucky (electric). We have a multiyear rate plan in Florida and in January 2021 reached a constructive settlement agreement with key consumer groups, subject to FPSC approval, to bring additional certainty to rates through 2024. In addition, grid investment riders in the Midwest enable more timely cost recovery and earnings growth.

Customer Satisfaction. Duke Energy continues to transform the customer experience through our use of customer data to better inform operational priorities and performance levels. This data-driven approach allows us to identify the investments that are the most important to the customer experience. Our work has been recognized by our customers with external measures showing Duke Energy is improving customer satisfaction at a rate greater than the utility industry. Additionally, in 2020, we surpassed our internal target that measures customer satisfaction by approximately 14%.

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Operational Excellence, Safety and Reliability. The reliable and safe operation of our power plants, electric distribution system and natural gas infrastructure in our communities is foundational to our customers, our financial results and our credibility with stakeholders. Our regulated generation fleet and nuclear sites had strong performance throughout the year and our electric distribution system performed well. The safety of our workforce is a core value. Our employees delivered strong safety results in 2020, and we are at or near the top of our industry. Additionally, the 2020 Atlantic hurricane season was incredibly active and marked the fifth consecutive year of above-average damaging storms. Our ability to effectively handle all facets of the 2020 storm response efforts, including navigating COVID-19 protocols, is a testament to our team's extensive preparation and coordination, applying lessons learned from previous storms, and to on-the-ground management throughout the restoration efforts.

Leading Through COVID-19. COVID-19 impacted all that we accomplished in 2020 and demonstrated our resiliency and agility:

- As the pandemic spread, stay-at-home orders coupled with recessionary economic conditions caused overall retail electric sales to decline by approximately 2%. To offset this challenge, as well as mild weather and other COVID-related costs, we successfully achieved the high end of our goal of \$400 million to \$450 million of broad-based O&M reductions and other mitigating actions. The Company's results were within its adjusted EPS guidance range and we expect to sustain approximately \$200 million of the 2020 O&M cost mitigation into 2021 forward.
- Duke Energy kept electricity and gas flowing while voluntarily making significant accommodations for our customers. We led the way in our sector nationally, suspending all nonpay disconnects in all jurisdictions and waiving late payment fees and other fees until the national state of emergency was lifted. In the fall, we began returning to normal business practices, ensuring diligent communication with our customers and providing flexible payment arrangements.
- We ensured the physical safety of our workers and provided support for our employees. As cases spiked nationally, we deployed COVID-19 safety protocols for our front-line essential workers and moved 18,000 colleagues to remote work. Our COVID-19 Case Management Team managed exposures of our workforce and IT ensured our networks could handle the remote work while strengthening cyber protection. Under our COVID-19 protocols, our front-line employees completed 150 fossil and nuclear outages, executed large major projects, restored service from storms and hurricanes, and managed high-water events. Overall, our operations continued, and our team completed their work with excellence.

Duke Energy Objectives – 2021 and Beyond

Duke Energy will continue to deliver exceptional value to customers, be an integral part of the communities in which we do business and provide attractive returns to investors. We have an achievable, long-term strategy in place, and it is producing tangible results, yet the industry in which we operate is becoming more and more dynamic. We are adjusting, where necessary, and accelerating our focus in key areas to ensure the company is well positioned to be successful for many decades into the future. As we look ahead to 2021, our plans include:

- Continuing to place the customer at the center of all that we do, which includes providing customized products and solutions
- Strengthening our relationships with all our vast stakeholders in the communities in which we operate and invest
- Generating cleaner energy and working to achieve net-zero carbon emissions by 2050 and net zero methane emissions by 2030
- Modernizing and strengthening a green-enabled energy grid
- Expanding our natural gas infrastructure
- Maintaining the safety of our communities and employees
- Deploying digital tools across our business

Matters Impacting Future Results

The matters discussed herein could materially impact the future operating results, financial condition and cash flows of the Duke Energy Registrants and Business Segments.

Regulatory Matters

Coal Ash Costs

As a result of the NCDEQ settlement on December 31, 2019, Duke Energy Carolinas and Duke Energy Progress agreed to excavate seven of the nine remaining coal ash basins in North Carolina with ash moved to on-site lined landfills. At the two remaining basins, uncapped basin ash will be excavated and moved to lined landfills. The majority of spend is expected to occur over the next 15-20 years. In January 2021, Duke Energy Carolinas and Duke Energy Progress reached a settlement agreement on recovery of coal ash costs as outlined in Note 3, "Regulatory Matters," which is subject to review and approval of the NCUC. The company agreed not to seek recovery of approximately \$1 billion of deferred coal ash expenditures and Duke Energy Carolinas and Duke Energy Progress took a charge of approximately \$500 million each.

In 2019, Duke Energy Carolinas and Duke Energy Progress received orders from the PSCSC denying recovery of certain coal ash costs. Duke Energy Carolinas and Duke Energy Progress have appealed these decisions to the South Carolina Supreme Court and those appeals are pending. An order from regulatory or judicial authorities that rejects our proposed settlement or disallows recovery of costs related to closure of these ash basins could have an adverse impact on future results.

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Duke Energy Indiana has interpreted the CCR rule to identify the coal ash basin sites impacted and has assessed the amounts of coal ash subject to the rule and a method of compliance. In 2020, the Hoosier Environmental Council filed a petition challenging the Indiana Department of Environmental Management's partial approval of Duke Energy Indiana's ash pond closure plans. Interpretation of the requirements of the CCR rule is subject to further legal challenges and regulatory approvals, which could result in additional ash basin closure requirements, higher costs of compliance and greater AROs. Additionally, Duke Energy Indiana has retired facilities that are not subject to the CCR rule. Duke Energy Indiana may incur costs at these facilities to comply with environmental regulations or to mitigate risks associated with on-site storage of coal ash.

Storm Costs

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida's service territories were impacted by several named storms in 2018. Hurricane Florence, Hurricane Michael and Winter Storm Diego caused flooding, extensive damage and widespread power outages to the service territories of Duke Energy Carolinas and Duke Energy Progress. Duke Energy Florida's service territory was also impacted by Hurricane Michael, a Category 5 hurricane and the most powerful storm to hit the Florida Panhandle in recorded history. In September 2019, Hurricane Dorian impacted Duke Energy Progress and Duke Energy Florida's service territories. In 2020, Duke Energy Carolinas and Duke Energy Progress reached partial settlements in the 2019 North Carolina rates cases by filing a petition to securitize deferred storm costs, which is subject to review and approval of the NCUC. In January 2021, Duke Energy Florida filed a settlement agreement with the FPSC, which if approved, allows recovery of the remaining storm cost balance for hurricanes Michael and Dorian. An order from regulatory authorities disallowing the deferral and future recovery of storm restoration costs could have an adverse impact.

Grid Improvement Costs

Duke Energy Carolinas received an order from the NCUC in 2018, which denied the Grid Rider Stipulation and deferral treatment of grid improvement costs. Duke Energy Carolinas and Duke Energy Progress have petitioned for deferral of future grid improvement costs in their 2019 rate cases. Partial settlements filed with the NCUC in July 2020 included the allowance for deferral for certain grid projects placed in service from June 2020 through December 2022. There could be adverse impacts if grid improvement costs are not ultimately approved for recovery and/or deferral treatment.

Rate Cases

In 2019, Duke Energy Carolinas and Duke Energy Progress filed general rate cases with the NCUC. Several partial settlement agreements have been filed with the NCUC and are awaiting approval. The outcome of these rate cases could have a material impact.

MGP

The PUCO has issued an order authorizing recovery of MGP costs at certain sites in Ohio with a deadline to complete the MGP environmental investigation and remediation work prior to December 31, 2016. This deadline was subsequently extended to December 31, 2019. Duke Energy Ohio has filed for a request for extension of the deadline. A hearing on that request has not been scheduled. Disallowance of costs incurred, failure to complete the work by the deadline or failure to obtain an extension from the PUCO could result in an adverse impact.

For additional information, see Note 3 to the Consolidated Financial Statements, "Regulatory Matters."

Sale of Minority Interest in Duke Energy Indiana

In January 2021, Duke Energy entered into a definitive agreement providing for the sale of a 19.9% minority interest in Duke Energy Indiana with an affiliate of GIC, Singapore's sovereign wealth fund. The sale is subject to the satisfaction of certain customary conditions described in the investment agreement, including receipt of the approval of the FERC and completion of review by the Committee on Foreign Investments in the United States. Failure to obtain related approvals or satisfy the conditions in the investment agreement could result in the termination of the transaction and could result in an adverse impact. For additional information, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

Commercial Renewables

Duke Energy continues to monitor recoverability of renewable merchant plants located in the Electric Reliability Council of Texas West market and PJM, due to declining market pricing and declining long-term forecasted energy prices, primarily driven by lower forecasted natural gas prices. Based on the most recent recoverability test, the carrying value approximated the aggregate estimated future undiscounted cash flows for the assets under review. A continued decline in energy market pricing would likely result in a future impairment. Impairment of these assets could result in adverse impacts. For additional information, see Note 10 to the Consolidated Financial Statements, "Property, Plant and Equipment."

In February 2021, a severe winter storm impacted certain Commercial Renewables assets in Texas. Extreme weather conditions limited the ability for these solar and wind facilities to generate and sell electricity into the Electric Reliability Council of Texas market. Both lost revenues and higher than expected purchased power costs are expected to negatively impact the operating results of these generating units. The estimated financial impact of the storm is expected to have a material impact on the Commercial Renewables segment's 2021 operating results. See Note 25 to the Consolidated Financial Statements, "Subsequent Events."

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COVID-19

Duke Energy cannot predict the extent to which the COVID-19 pandemic will impact its results of operations, financial position and cash flows in the future. Duke Energy will continue to actively monitor the impacts of COVID-19 including the economic slowdown caused by business closures or by reduced operations of businesses and governmental agencies. The pandemic and resultant economic slowdown continues to cause an increase in certain costs, such as bad debt, and a reduction in the demand for energy. Duke Energy has mitigation plans in place to partially offset these impacts, and the ability to execute these plans is critical to preserving future financial results. The Company is in the process of reviewing the long-term real estate strategy due to a potential change of in-office work policies after the COVID-19 pandemic. The plan may result in a reduction of physical work space which could create accounting impacts starting in 2021. Accounting impacts may include reassessments of lease terms and lease modifications which could result in termination penalties, as well as, asset impairments on property, plant and equipment. See Item 1A. Risk Factors for discussion of risks associated with COVID-19 and Liquidity and Capital Resources within this section for a discussion of liquidity impacts of COVID-19.

Within this Item 7, see Liquidity and Capital Resources for a discussion on risks associated with the Tax Act.

Results of Operations

Non-GAAP Measures

Management evaluates financial performance in part based on non-GAAP financial measures, including adjusted earnings and adjusted EPS. These items represent income from continuing operations available to Duke Energy common stockholders in dollar and per-share amounts, adjusted for the dollar and per-share impact of special items. As discussed below, special items include certain charges and credits, which management believes are not indicative of Duke Energy's ongoing performance. Management believes the presentation of adjusted earnings and adjusted EPS provides useful information to investors, as it provides them with an additional relevant comparison of Duke Energy's performance across periods.

Management uses these non-GAAP financial measures for planning and forecasting, and for reporting financial results to the Board of Directors, employees, stockholders, analysts and investors. Adjusted EPS is also used as a basis for employee incentive bonuses. The most directly comparable GAAP measures for adjusted earnings and adjusted EPS are GAAP Reported Earnings and EPS Available to Duke Energy Corporation common stockholders (GAAP Reported EPS), respectively.

Special items included in the periods presented include the following, which management believes do not reflect ongoing costs:

- Gas Pipeline Investments represents costs related to the cancellation of the ACP pipeline and additional exit costs related to Constitution.
- Regulatory Settlements represents charges related to Duke Energy Carolinas' and Duke Energy Progress' CCR Settlement Agreement and the partial settlements in the 2019 North Carolina rate cases.
- Severance represents the reversal of 2018 costs, which were deferred as a result of a partial settlement in the Duke Energy Carolinas and the Duke Energy Progress 2019 North Carolina rate cases.
- Impairment Charges represents a reduction of a prior year impairment at Citrus County CC and an OTTI on the remaining investment in Constitution.

Duke Energy's adjusted earnings and adjusted EPS may not be comparable to similarly titled measures of another company because other companies may not calculate the measures in the same manner.

Reconciliation of GAAP Reported Amounts to Adjusted Amounts

The following table presents a reconciliation of adjusted earnings and adjusted EPS to the most directly comparable GAAP measures.

(in millions, except per share amounts)	Years Ended December 31,			
	2020		2019	
	Earnings	EPS	Earnings	EPS
GAAP Reported Earnings/EPS	\$ 1,270	\$ 1.72	\$ 3,707	\$ 5.06
Adjustments to Reported:				
Gas Pipeline Investments ^(a)	1,711	2.32	—	—
Regulatory Settlements ^(b)	872	1.19	—	—
Severance ^(c)	(75)	(0.10)	—	—
Impairment Charges ^(d)	—	—	(8)	(0.01)
Discontinued Operations	(7)	(0.01)	7	0.01
Adjusted Earnings/Adjusted EPS	\$ 3,771	\$ 5.12	\$ 3,706	\$ 5.06

- (a) Net of tax benefit of \$399 million.
(b) Net of tax benefit of \$263 million.
(c) Net of tax expense of \$23 million.
(d) Net of tax expense of \$3 million.

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Year Ended December 31, 2020, as compared to 2019

GAAP Reported EPS was \$1.72 for the year ended December 31, 2020, compared to \$5.06 for the year ended December 31, 2019. The decrease in GAAP Reported Earnings/EPS was primarily due to the cancellation of the ACP pipeline and the CCR Settlement Agreement filed with the NCUC.

As discussed and shown in the table above, management also evaluates financial performance based on adjusted EPS. Duke Energy's adjusted EPS was \$5.12 for the year ended December 31, 2020, compared to \$5.06 for the year ended December 31, 2019. The increase in Adjusted Earnings/Adjusted EPS was primarily due to positive rate case contributions, growth in wholesale, lower operations and maintenance expense in response to the pandemic and growth in Commercial Renewables, partially offset by higher depreciation expense from a growing asset base, impacts of the pandemic, mild weather and the loss of ACP earnings.

SEGMENT RESULTS

The remaining information presented in this discussion of results of operations is on a GAAP basis. Management evaluates segment performance based on segment income. Segment income is defined as income from continuing operations net of income attributable to noncontrolling interests and preferred stock dividends. Segment income includes intercompany revenues and expenses that are eliminated in the Consolidated Financial Statements.

Duke Energy's segment structure includes the following segments: Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables. The remainder of Duke Energy's operations is presented as Other. See Note 2 to the Consolidated Financial Statements, "Business Segments," for additional information on Duke Energy's segment structure.

Electric Utilities and Infrastructure

(in millions)	Years Ended December 31,		
	2020	2019	Variance
Operating Revenues	\$ 21,720	\$ 22,831	\$ (1,111)
Operating Expenses			
Fuel used in electric generation and purchased power	6,128	6,904	(776)
Operations, maintenance and other	5,391	5,497	(106)
Depreciation and amortization	4,068	3,951	117
Property and other taxes	1,188	1,175	13
Impairment charges	971	(8)	979
Total operating expenses	17,746	17,519	227
Gains on Sales of Other Assets and Other, net	11	1	10
Operating Income	3,985	5,313	(1,328)
Other Income and Expenses, net	344	353	(9)
Interest Expense	1,320	1,345	(25)
Income Before Income Taxes	3,009	4,321	(1,312)
Income Tax Expense	340	785	(445)
Segment Income	\$ 2,669	\$ 3,536	\$ (867)
Duke Energy Carolinas GWh sales	84,574	89,920	(5,346)
Duke Energy Progress GWh sales	65,240	68,356	(3,116)
Duke Energy Florida GWh sales	42,490	42,173	317
Duke Energy Ohio GWh sales	23,484	24,729	(1,245)
Duke Energy Indiana GWh sales	30,528	31,886	(1,358)
Total Electric Utilities and Infrastructure GWh sales	246,316	257,064	(10,748)
Net proportional MW capacity in operation	50,419	50,070	349

Year Ended December 31, 2020, as compared to 2019

Electric Utilities and Infrastructure's variance is primarily due to impairment charges and revenue reductions related to the CCR settlement agreement filed with the NCUC to resolve coal ash cost recovery issues, unfavorable weather and lower volumes driven by impacts from the COVID-19 pandemic, partially offset by base rate adjustments in various jurisdictions. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The variance was driven primarily by:

- an \$826 million decrease in fuel revenues driven by lower sales volumes as well as an accelerated refund of fuel costs at Duke Energy Florida in response to the COVID-19 pandemic;
- a \$237 million decrease in wholesale revenue primarily driven by the CCR Settlement Agreement filed with the NCUC in January 2021 and decreased volumes;

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SEGMENT RESULTS - ELECTRIC UTILITIES AND INFRASTRUCTURE

- a \$207 million decrease in retail sales, net of fuel revenues, due to unfavorable weather;
- a \$130 million decrease in rider revenues from EE programs;
- a \$44 million decrease in nuclear cost recovery rider revenue due to recovery of the Crystal River 3 uprate regulatory asset in 2019 at Duke Energy Florida; and
- a \$17 million decrease in weather-normal retail sale volumes driven by lower nonresidential customer demand due to impacts from the COVID-19 pandemic.

Partially offset by:

- a \$214 million increase due to higher pricing from the Indiana retail rate case, net of rider revenues;
- a \$92 million increase in retail pricing due to Duke Energy Florida's base rate adjustments related to annual increases from the 2017 Settlement Agreement and the Solar Base Rate Adjustment; and
- a \$32 million increase due to higher pricing from South Carolina retail rate cases, net of a return of EDIT to customers.

Operating Expenses. The variance was driven primarily by:

- a \$979 million increase in impairment charges primarily driven by the CCR Settlement Agreement filed with the NCUC in January 2021;
- a \$117 million increase in depreciation and amortization expense primarily due to additional plant in service and new depreciation rates from the Indiana retail rate cases; and
- a \$13 million increase in property and other taxes primarily due to prior year property tax reassessments.

Partially offset by:

- a \$776 million decrease in fuel used in electric generation and purchased power primarily due to lower generation demand and lower fuel and natural gas costs; and
- a \$106 million decrease in operation, maintenance and other expense primarily driven by cost mitigation efforts.

Interest Expense. The variance was primarily due to lower interest rates on outstanding debt.

Income Tax Expense. The ETRs for the years ended December 31, 2020, and 2019, were 11.3% and 18.2%, respectively. The decrease in the ETR was primarily due to an increase in the amortization of excess deferred taxes.

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SEGMENT RESULTS - GAS UTILITIES AND INFRASTRUCTURE

Gas Utilities and Infrastructure

(in millions)	Years Ended December 31,		
	2020	2019	Variance
Operating Revenues	\$ 1,748	\$ 1,866	\$ (118)
Operating Expenses			
Cost of natural gas	460	627	(167)
Operation, maintenance and other	430	446	(16)
Depreciation and amortization	258	256	2
Property and other taxes	112	106	6
Impairment charges	7	—	7
Total operating expenses	1,267	1,435	(168)
Operating Income	481	431	50
Other Income and Expenses			
Equity in (losses) earnings of unconsolidated affiliates	(2,017)	114	(2,131)
Other Income and Expenses, net	56	26	30
Total other income and expenses	(1,961)	140	(2,101)
Interest Expense	135	117	18
(Loss) Income Before Income Taxes	(1,615)	454	(2,069)
Income Tax (Benefit) Expense	(349)	22	(371)
Segment (Loss) Income	\$ (1,266)	\$ 432	\$ (1,698)
Piedmont Local Distribution Company (LDC) throughput (Dth)	490,071,039	511,243,774	(21,172,735)
Duke Energy Midwest LDC throughput (MCF)	84,160,162	89,025,972	(4,865,810)

Year Ended December 31, 2020, as compared to 2019

Gas Utilities and Infrastructure's results were impacted primarily by the cancellation of the ACP pipeline. The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The variance was driven primarily by:

- a \$167 million decrease due to lower natural gas costs passed through to customers, lower volumes, and decreased off-system sales natural gas costs; and
- a \$47 million decrease due to return of EDIT to customers.

Partially offset by:

- an \$87 million increase due to North Carolina base rate case increases.

Operating Expenses. The variance was driven primarily by:

- a \$167 million decrease in cost of natural gas due to lower natural gas prices, lower volumes and decreased off-system sales natural gas costs.

Equity in (losses) earnings of unconsolidated affiliates. The variance was driven primarily by the cancellation of the ACP pipeline.

Other Income and Expenses, net. The variance was driven primarily by AFUDC equity and other income related to Belews Creek and Marshall Power Generation contracts.

Income Tax (Benefit) Expense. The increase in tax benefit was primarily due to a decrease in pretax income driven by the impact of the cancellation of the ACP pipeline. The ETRs for the years ended December 31, 2020, and 2019, were 21.6% and 4.8%, respectively. The increase in the ETR was primarily due to an adjustment, recorded in the first quarter of 2019, related to the income tax recognition for equity method investments. The equity method investment adjustment was immaterial and relates to prior years.

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SEGMENT RESULTS - COMMERCIAL RENEWABLES

Commercial Renewables

(in millions)	Years Ended December 31,		
	2020	2019	Variance
Operating Revenues	\$ 502	\$ 487	\$ 15
Operating Expenses			
Operation, maintenance and other	285	297	(12)
Depreciation and amortization	199	168	31
Property and other taxes	27	23	4
Impairment charges	6	—	6
Total operating expenses	517	488	29
Losses on Sales of Other Assets and Other, net	(1)	(3)	2
Operating Loss	(16)	(4)	(12)
Other Income and Expenses, net	7	5	2
Interest Expense	66	95	(29)
Loss Before Income Taxes	(75)	(94)	19
Income Tax Benefit	(65)	(115)	50
Add: Loss Attributable to Noncontrolling Interests	296	177	119
Segment Income	\$ 286	\$ 198	\$ 88
Renewable plant production, GWh	10,204	8,574	1,630
Net proportional MW capacity in operation ^(a)	3,937	3,485	452

(a) Certain projects are included in tax-equity structures where investors have differing interests in the project's economic attributes. Amounts shown represent 100% of the tax-equity project's capacity.

Year Ended December 31, 2020, as compared to 2019

Commercial Renewables' results were favorable primarily due to growth of new project investments. Since December 31, 2019, Commercial Renewables has placed in service approximately 500 MW of capacity.

The following is a detailed discussion of the variance drivers by line item.

Operating Revenues. The variance was primarily driven by a \$39 million increase associated with the growth of new projects placed in service, partially offset by a \$24 million decrease primarily within the distributed energy portfolios for lower engineering and construction activities related to delays from COVID-19.

Operating Expenses. The variance was primarily driven by a \$52 million increase in operating expenses due to the growth of new projects placed in service. This was partially offset by a \$24 million decrease in operating expenses within the distributed energy portfolios for lower engineering and construction costs related to delays from COVID-19.

Interest Expense. The decrease was primarily driven by non-qualifying hedge activity in the prior year, higher capitalized interest in the current year for solar and wind projects in development and lower outstanding debt balances.

Income Tax Benefit. The decrease in the tax benefit was primarily driven by an increase in taxes associated with tax equity investments and a decrease in PTCs generated.

Loss Attributable to Noncontrolling Interests. The increase was driven primarily by the growth of new projects financed by tax equity.

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SEGMENT RESULTS - OTHER

Other

(in millions)	Years Ended December 31,		
	2020	2019	Variance
Operating Revenues	\$ 97	\$ 95	\$ 2
Operating Expenses	12	117	(105)
Losses on Sales of Other Assets and Other, net	—	(2)	2
Operating Income (Loss)	85	(24)	109
Other Income and Expenses, net	92	145	(53)
Interest Expense	657	705	(48)
Loss Before Income Taxes	(480)	(584)	104
Income Tax Benefit	(162)	(173)	11
Less: Net Income Attributable to Noncontrolling Interests	1	—	1
Less: Preferred Dividends	107	41	66
Net Loss	\$ (426)	\$ (452)	\$ 26

Year Ended December 31, 2020, as compared to 2019

The variance was primarily driven by a reversal of corporate allocated severance costs, obligations to the Duke Energy Foundation in 2019, and lower state income tax expense, partially offset by lower returns on investments, higher loss experience related to captive insurance claims, the declaration of preferred stock dividends, and lower earnings on the NMC investment. The following is a detailed discussion of the variance drivers by line item.

Operating Expenses. The decrease was primarily due to the deferral of 2018 corporate allocated severance costs due to the Duke Energy Carolinas and Duke Energy Progress partial settlements in the 2019 North Carolina retail rate case and obligations to the Duke Energy Foundation in 2019, partially offset by higher loss experience related to captive insurance claims and higher franchise tax expense.

Other Income and Expenses, net. The variance was primarily due to lower returns on investments that fund certain employee benefit obligations and lower earnings on the NMC investment primarily due to lower pricing.

Interest Expense. The variance was primarily due to lower outstanding short-term debt and lower interest rates.

Income Tax Benefit. The decrease in the tax benefit was primarily driven by a decrease in pretax losses, partially offset by an increase in state income tax benefits. The ETRs for the years ended December 31, 2020, and 2019, were 33.8% and 29.6%, respectively. The increase in the ETR was primarily due to an increase in state income tax benefits in 2020, in relation to pretax losses.

Preferred Dividends. The variance was driven by the declaration of preferred stock dividends on preferred stock issued in late 2019.

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DUKE ENERGY CAROLINAS

SUBSIDIARY REGISTRANTS

Basis of Presentation

The results of operations and variance discussion for the Subsidiary Registrants is presented in a reduced disclosure format in accordance with General Instruction (I)(2)(a) of Form 10-K.

DUKE ENERGY CAROLINAS

Results of Operations

(in millions)	Years Ended December 31,		
	2020	2019	Variance
Operating Revenues	\$ 7,015	\$ 7,395	\$ (380)
Operating Expenses			
Fuel used in electric generation and purchased power	1,682	1,804	(122)
Operation, maintenance and other	1,743	1,868	(125)
Depreciation and amortization	1,462	1,388	74
Property and other taxes	299	292	7
Impairment charges	476	17	459
Total operating expenses	5,662	5,369	293
Gains on Sales of Other Assets and Other, net	1	—	1
Operating Income	1,354	2,026	(672)
Other Income and Expenses, net	177	151	26
Interest Expense	487	463	24
Income Before Income Taxes	1,044	1,714	(670)
Income Tax Expense	88	311	(223)
Net Income	\$ 956	\$ 1,403	\$ (447)

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Carolinas. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities, public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2020	2019
Residential sales	(3.1)%	(2.9)%
General service sales	(6.7)%	(0.1)%
Industrial sales	(8.0)%	(1.9)%
Wholesale power sales	(2.0)%	(13.6)%
Joint dispatch sales	(46.0)%	4.7 %
Total sales	(5.9)%	(2.6)%
Average number of customers	1.9 %	2.1 %

Year Ended December 31, 2020, as compared to 2019

Operating Revenues. The variance was driven primarily by:

- a \$151 million decrease in fuel revenues due to lower prices and retail sales volumes;
- a \$149 million decrease in retail sales due to unfavorable weather in the current year;
- a \$73 million decrease in rider revenues primarily due to EE programs; and
- a \$50 million decrease in wholesale revenue primarily driven by the CCR Settlement Agreement filed with the NCUC in January 2021.

Partially offset by:

- a \$25 million increase due to higher pricing from the South Carolina retail rate case, net of a return of EDIT to customers; and
- a \$22 million increase in weather-normal retail sales volumes.

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DUKE ENERGY CAROLINAS

Operating Expenses. The variance was driven primarily by:

- a \$459 million increase in impairment charges primarily driven by the CCR Settlement Agreement filed with the NCUC in January 2021; and
- a \$74 million increase in depreciation and amortization expense primarily due to additional plant in service and new depreciation rates associated with the South Carolina rate case.

Partially offset by:

- a \$125 million decrease in operation, maintenance and other expense primarily driven by the deferral of 2018 severance costs due to the partial settlement agreement between Duke Energy Carolinas and the Public Staff of the NCUC related to the 2019 North Carolina retail rate case, and cost mitigation efforts, partially offset by higher storm restoration costs; and
- a \$122 million decrease in fuel used in electric generation and purchased power primarily due to lower retail sales volumes, net of a prior period true up.

Other Income and Expenses, net. The variance was primarily due to higher AFUDC equity in the current year.

Interest Expense. The variance was primarily due to higher debt outstanding in the current year.

Income Tax Expense. The decrease in tax expense was primarily due to a decrease in pretax income and an increase in the amortization of excess deferred taxes.

PROGRESS ENERGY

Results of Operations

(in millions)	Years Ended December 31,		
	2020	2019	Variance
Operating Revenues	\$ 10,627	\$ 11,202	\$ (575)
Operating Expenses			
Fuel used in electric generation and purchased power	3,479	4,024	(545)
Operation, maintenance and other	2,479	2,495	(16)
Depreciation and amortization	1,818	1,845	(27)
Property and other taxes	545	561	(16)
Impairment charges	495	(24)	519
Total operating expenses	8,816	8,901	(85)
Gains on Sales of Other Assets and Other, net	9	—	9
Operating Income	1,820	2,301	(481)
Other Income and Expenses, net	129	141	(12)
Interest Expense	790	862	(72)
Income Before Income Taxes	1,159	1,580	(421)
Income Tax Expense	113	253	(140)
Net Income	1,046	1,327	(281)
Less: Net Income Attributable to Noncontrolling Interests	1	—	1
Net Income Attributable to Parent	\$ 1,045	\$ 1,327	\$ (282)

Year Ended December 31, 2020, as compared to 2019

Operating Revenues. The variance was driven primarily by:

- a \$567 million decrease in fuel revenues driven by lower sales volumes as well as an accelerated refund of fuel costs in response to the COVID-19 pandemic at Duke Energy Florida and lower fuel prices, volumes and native load transfer sales in the current year at Duke Energy Progress;
- a \$169 million decrease in wholesale revenue primarily driven by the Duke Energy Progress' CCR Settlement Agreement filed with the NCUC in January 2021 and decreased volumes at Duke Energy Progress, partially offset by increased demand at Duke Energy Florida;
- a \$55 million decrease in rider revenues primarily due to the Crystal River 3 uprate regulatory asset being fully recovered in 2019 at Duke Energy Florida;
- a \$31 million decrease in retail sales, net of fuel revenues, due to unfavorable weather at Duke Energy Progress, partially offset by favorable weather in the current year at Duke Energy Florida; and
- a \$17 million decrease in weather-normal retail sales volumes.

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PROGRESS ENERGY

Partially offset by:

- a \$147 million increase in storm revenues due to Hurricane Dorian collections at Duke Energy Florida;
- a \$92 million increase in retail pricing due to base rate adjustments related to annual increases from the 2017 Settlement Agreement and the Solar Base Rate Adjustment at Duke Energy Florida; and
- a \$16 million increase due to higher pricing from the South Carolina retail rate case, net of a return of EDIT to customers at Duke Energy Progress.

Operating Expenses. The variance was driven primarily by:

- a \$545 million decrease in fuel used in electric generation and purchased power primarily due to lower demand and changes in generation mix at Duke Energy Progress and lower demand and fuel costs at Duke Energy Florida;
- a \$27 million decrease in depreciation and amortization expense primarily driven by a decrease in coal ash amortization, partially offset by a higher depreciable base and impacts from North Carolina and the South Carolina rate cases at Duke Energy Progress;
- a \$16 million decrease in operation, maintenance and other expense at Duke Energy Progress primarily driven by the deferral of 2018 severance costs due to the partial settlement agreement between Duke Energy Progress and the Public Staff of the NCUC related to the 2019 North Carolina retail rate case, reduced outage costs and other cost mitigation efforts, partially offset by storm cost amortizations at Duke Energy Florida; and
- a \$16 million decrease in property and other taxes driven primarily by lower gross receipts taxes due to decreased fuel revenues at Duke Energy Florida.

Partially offset by:

- a \$519 million increase in impairment charges primarily driven by the Duke Energy Progress' CCR Settlement Agreement filed with the NCUC in January 2021, and the prior year's impairment reduction related to Citrus County CC at Duke Energy Florida.

Interest Expense. The variance was driven primarily by lower interest rates on outstanding debt at Duke Energy Progress.

Income Tax Expense. The decrease in tax expense was primarily due to a decrease in pretax income and an increase in the amortization of excess deferred taxes at Duke Energy Progress, partially offset by an increase in pretax income and a decrease in the amortization of excess deferred taxes at Duke Energy Florida.

DUKE ENERGY PROGRESS

Results of Operations

(in millions)	Years Ended December 31,		
	2020	2019	Variance
Operating Revenues	\$ 5,422	\$ 5,957	\$ (535)
Operating Expenses			
Fuel used in electric generation and purchased power	1,743	2,012	(269)
Operation, maintenance and other	1,332	1,446	(114)
Depreciation and amortization	1,116	1,143	(27)
Property and other taxes	167	176	(9)
Impairment charges	499	12	487
Total operating expenses	4,857	4,789	68
Gains on Sales of Other Assets and Other, net	8	—	8
Operating Income	573	1,168	(595)
Other Income and Expenses, net	75	100	(25)
Interest Expense	269	306	(37)
Income Before Income Taxes	379	962	(583)
Income Tax (Benefit) Expense	(36)	157	(193)
Net Income	\$ 415	\$ 805	\$ (390)

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DUKE ENERGY PROGRESS

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Progress. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities, public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2020	2019
Residential sales	(3.2)%	(4.0)%
General service sales	(7.4)%	(1.6)%
Industrial sales	(3.9)%	0.6 %
Wholesale power sales	(9.1)%	(1.5)%
Joint dispatch sales	9.9 %	(0.8)%
Total sales	(4.6)%	(1.4)%
Average number of customers	1.8 %	1.3 %

Year Ended December 31, 2020, as compared to 2019

Operating Revenues. The variance was driven primarily by:

- a \$272 million decrease in fuel cost recovery driven by lower fuel prices and volumes as well as less native load transfer sales in the current year;
- a \$180 million decrease in wholesale revenue primarily driven by the CCR Settlement Agreement filed with the NCUC in January 2021, and decreased volumes, partially offset by increased capacity rates;
- a \$77 million decrease in retail sales due to unfavorable weather; and
- a \$10 million decrease in weather-normal retail sales volumes.

Partially Offset by:

- a \$16 million increase due to higher pricing from the South Carolina retail rate case, net of a return of EDIT to customers.

Operating Expenses. The variance was driven primarily by:

- a \$487 million increase in impairment charges primarily driven by the CCR Settlement Agreement filed with the NCUC in January 2021.

Partially Offset by:

- a \$269 million decrease in fuel used in electric generation and purchased power primarily due to lower demand and changes in generation mix;
- a \$114 million decrease in operation, maintenance and other expense primarily driven by the deferral of 2018 severance costs due to the partial settlement agreement between Duke Energy Progress and the Public Staff of the NCUC related to the 2019 North Carolina retail rate case, reduced outage costs and other costs mitigation efforts; and
- a \$27 million decrease in depreciation and amortization expense primarily driven by a decrease in coal ash amortization, partially offset by a higher depreciable base and impacts from the South Carolina rate cases.

Other Income and Expenses, net. The variance was primarily due to lower AFUDC equity in the current year.

Interest Expense. The variance was driven primarily by lower interest rates on outstanding debt.

Income Tax (Benefit) Expense. The decrease in tax expense was primarily due to a decrease in pretax income and an increase in the amortization of excess deferred taxes.

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DUKE ENERGY FLORIDA

DUKE ENERGY FLORIDA

Results of Operations

(in millions)	Years Ended December 31,		
	2020	2019	Variance
Operating Revenues	\$ 5,188	\$ 5,231	\$ (43)
Operating Expenses			
Fuel used in electric generation and purchased power	1,737	2,012	(275)
Operation, maintenance and other	1,131	1,034	97
Depreciation and amortization	702	702	—
Property and other taxes	381	392	(11)
Impairment charges	(4)	(36)	32
Total operating expenses	3,947	4,104	(157)
Gains on Sales of Other Assets and Other, net	1	—	1
Operating Income	1,242	1,127	115
Other Income and Expenses, net	53	48	5
Interest Expense	326	328	(2)
Income Before Income Taxes	969	847	122
Income Tax Expense	198	155	43
Net Income	\$ 771	\$ 692	\$ 79

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Florida. The below percentages for retail customer classes represent billed sales only. Wholesale power sales include both billed and unbilled sales. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities, public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2020	2019
Residential sales	3.3 %	0.7 %
General service sales	(5.3)%	0.3 %
Industrial sales	6.2 %	(4.6)%
Wholesale power sales	(1.7)%	28.8 %
Total sales	0.8 %	1.5 %
Average number of customers	1.8 %	1.6 %

Year Ended December 31, 2020, as compared to 2019

Operating Revenues. The variance was driven primarily by:

- a \$295 million decrease in fuel revenues driven by lower sales volumes as well as an accelerated refund of fuel costs to customers in response to the COVID-19 pandemic;
- a \$55 million decrease in rider revenues primarily due to full recovery of the Crystal River 3 uprate regulatory asset in 2019; and
- a \$7 million decrease in weather-normal retail sales volumes.

Partially offset by:

- a \$147 million increase in storm revenues due to recovery of Hurricane Dorian costs;
- a \$92 million increase in retail pricing due to base rate adjustments related to annual increases from the 2017 Settlement Agreement and the Solar Base Rate Adjustment;
- a \$46 million increase in retail sales, net of fuel revenues, due to favorable weather in the current year;
- an \$18 million increase in other revenues primarily due to increased transmission revenues and lighting equipment rentals, partially offset by lower late payment and service charge revenues due to a moratorium during the COVID-19 pandemic; and
- an \$11 million increase in wholesale power revenues, net of fuel, primarily due to increased capacity charges.

Operating Expenses. The variance was driven primarily by:

- a \$275 million decrease in fuel used in electric generation and purchased power primarily due to lower fuel costs; and
- an \$11 million decrease in property and other taxes driven by lower gross receipts taxes due to decreased fuel revenues.

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DUKE ENERGY FLORIDA

Partially offset by:

- a \$97 million increase in operation, maintenance and other expense primarily due to storm cost amortizations; and
- a \$32 million increase in impairment charges primarily due to the prior year's impairment reduction related to Citrus County CC.

Income Tax Expense. The increase in tax expense was primarily due to an increase in pretax income and a decrease in the amortization of excess deferred taxes.

DUKE ENERGY OHIO

Results of Operations

(in millions)	Years Ended December 31,		
	2020	2019	Variance
Operating Revenues			
Regulated electric	\$ 1,405	\$ 1,456	\$ (51)
Regulated natural gas	453	484	(31)
Total operating revenues	1,858	1,940	(82)
Operating Expenses			
Fuel used in electric generation and purchased power – regulated	339	388	(49)
Cost of natural gas	73	95	(22)
Operation, maintenance and other	463	520	(57)
Depreciation and amortization	278	265	13
Property and other taxes	324	308	16
Total operating expenses	1,477	1,576	(99)
Operating Income	381	364	17
Other Income and Expenses, net	16	24	(8)
Interest Expense	102	109	(7)
Income from Continuing Operations Before Income Taxes	295	279	16
Income Tax Expense from Continuing Operations	43	40	3
Income from Continuing Operations	252	239	13
Loss from Discontinued Operations, net of tax	—	(1)	1
Net Income	\$ 252	\$ 238	\$ 14

The following table shows the percent changes in GWh sales of electricity, MCF of natural gas delivered and average number of electric and natural gas customers for Duke Energy Ohio. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities, public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	Electric		Natural Gas	
	2020	2019	2020	2019
Residential sales	(1.9)%	(3.9)%	(5.7)%	(3.7)%
General service sales	(7.7)%	(1.9)%	(8.4)%	(1.2)%
Industrial sales	(6.6)%	(2.1)%	(4.1)%	(0.4)%
Wholesale electric power sales	(21.3)%	(4.9)%	n/a	n/a
Other natural gas sales	n/a	n/a	(2.2)%	0.7 %
Total sales	(5.0)%	(2.4)%	(5.5)%	(1.7)%
Average number of customers	1.3 %	0.7 %	1.1 %	0.7 %

Year Ended December 31, 2020, as compared to 2019

Operating Revenues. The variance was driven primarily by:

- a \$61 million decrease in fuel related revenues primarily due to lower prices and decreased volumes;
- a \$22 million decrease in retail revenue riders, primarily due to lower EE program revenues, volume impacts of the Distribution Decoupling rider, suspension of the MGP rider and higher taxes returned to customers via the Tax Cuts and Job Acts rider, partially offset by an increase in the Distribution Capital Investment rider due to increased capital investment;
- a \$15 million decrease in revenues due to unfavorable weather in the current year;
- an \$11 million decrease in other revenues due to lower OVEC sales into PJM;

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DUKE ENERGY OHIO

- a \$5 million decrease in bulk power marketing sales, and
- a \$4 million decrease in weather-normal sales volumes.

Partially offset by:

- a \$23 million increase in retail pricing primarily due to rate case impacts in Kentucky; and
- an \$18 million increase in PJM transmission revenues as a result of increased capital spend.

Operating Expenses. The variance was driven primarily by:

- a \$71 million decrease in fuel expense, primarily driven by lower fuel prices, decreased volumes and lower OVEC costs; and
- a \$57 million decrease in operations, maintenance and other expense primarily due to a new customer program and other deferrals, the timing of EE programs and outage costs, lower employee benefit expenses and lower vegetation and pole maintenance costs.

Partially offset by:

- a \$16 million increase in property and other taxes primarily due to higher property taxes due to increased plant in service, partially offset by lower franchise and other taxes; and
- a \$13 million increase in depreciation and amortization primarily driven by an increase in distribution plant, partially offset by lower amortization due to the suspension of the MGP rider in Ohio and environmental surcharge mechanism amortization of deferred coal ash pond ARO.

DUKE ENERGY INDIANA

Results of Operations

(in millions)	Years Ended December 31,		
	2020	2019	Variance
Operating Revenues	\$ 2,795	\$ 3,004	\$ (209)
Operating Expenses			
Fuel used in electric generation and purchased power	767	935	(168)
Operation, maintenance and other	762	790	(28)
Depreciation and amortization	569	525	44
Property and other taxes	81	69	12
Total operating expenses	2,179	2,319	(140)
Operating Income	616	685	(69)
Other Income and Expenses, net	37	41	(4)
Interest Expense	161	156	5
Income Before Income Taxes	492	570	(78)
Income Tax Expense	84	134	(50)
Net Income	\$ 408	\$ 436	\$ (28)

The following table shows the percent changes in GWh sales and average number of customers for Duke Energy Indiana. The below percentages for retail customer classes represent billed sales only. Total sales includes billed and unbilled retail sales and wholesale sales to incorporated municipalities, public and private utilities and power marketers. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2020	2019
Residential sales	(2.7)%	(3.9)%
General service sales	(7.0)%	(2.2)%
Industrial sales	(7.6)%	(2.6)%
Wholesale power sales	3.8 %	(27.7)%
Total sales	(4.3)%	(6.8)%
Average number of customers	1.4 %	1.2 %

Year Ended December 31, 2020, as compared to 2019

Operating Revenues. The variance was driven primarily by:

- a \$193 million decrease in rider revenues primarily due to lower sales volumes and credit adjustment rider refunds;
- a \$179 million decrease in fuel revenues primarily due to lower fuel cost recovery driven by customer demand and fuel prices;
- a \$20 million decrease in weather-normal retail sales volumes driven by lower nonresidential customer demand;

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- a \$16 million decrease in retail sales due to unfavorable weather in the current year; and
- a \$10 million decrease in wholesale revenues primarily related to the true up of wholesale transmission revenues and lower rates in the current year.

Partially offset by:

- a \$214 million increase primarily due to higher pricing from the Indiana retail rate case, net of certain rider revenues.

Operating Expenses. The variance was driven primarily by:

- a \$168 million decrease in fuel used in electric generation and purchased power expense primarily due to lower purchased power expense, lower amortization of deferred fuel costs and lower coal and natural gas costs; and
- a \$28 million decrease in operation, maintenance and other primarily due to lower storm restoration costs, training costs, employee related costs and a new customer program deferral.

Partially offset by:

- a \$44 million increase in depreciation and amortization primarily due to a change in depreciation rates from the Indiana retail rate case and additional plant in service; and
- a \$12 million increase in property and other taxes primarily due to additional plant in service and property tax true ups for prior periods.

Income Tax Expense. The decrease in income tax expense was primarily due to an increase in the amortization of excess deferred taxes and a decrease in pretax income.

PIEDMONT

Results of Operations

(in millions)	Years Ended December 31,		
	2020	2019	Variance
Operating Revenues	\$ 1,297	\$ 1,381	\$ (84)
Operating Expenses			
Cost of natural gas	386	532	(146)
Operation, maintenance and other	322	328	(6)
Depreciation and amortization	180	172	8
Property and other taxes	53	45	8
Impairment charges	7	—	7
Total operating expenses	948	1,077	(129)
Operating Income	349	304	45
Equity in earnings of unconsolidated affiliates	9	8	1
Other income and expenses, net	51	20	31
Total other income and expenses	60	28	32
Interest Expense	118	87	31
Income Before Income Taxes	291	245	46
Income Tax Expense	18	43	(25)
Net Income	\$ 273	\$ 202	\$ 71

The following table shows the percent changes in Dth delivered and average number of customers. The percentages for all throughput deliveries represent billed and unbilled sales. Amounts are not weather-normalized.

Increase (Decrease) over prior year	2020	2019
Residential deliveries	(3.5)%	(8.0)%
Commercial deliveries	(9.1)%	(4.6)%
Industrial deliveries	(2.9)%	1.7 %
Power generation deliveries	(3.7)%	(11.8)%
For resale	(9.7)%	4.8 %
Total throughput deliveries	(4.1)%	(8.2)%
Secondary market volumes	(9.1)%	(0.5)%
Average number of customers	2.3 %	1.4 %

The margin decoupling mechanism adjusts for variations in residential and commercial use per customer, including those due to weather and conservation. The weather normalization adjustment mechanisms mostly offset the impact of weather on bills rendered, but do not ensure full recovery of approved margin during periods when winter weather is significantly warmer or colder than normal.

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Year Ended December 31, 2020, as compared to 2019

Operating Revenues. The variance was driven primarily by:

- a \$146 million decrease due to lower natural gas costs passed through to customers, lower volumes, and decreased off-system sales natural gas costs;
- a \$47 million decrease due to return of EDIT to customers; and
- a \$7 million decrease due to NCUC approval related to tax reform accounting from fixed-rate contracts in the prior year.

Partially offset by:

- an \$87 million increase due to North Carolina base rate case increases;
- a \$20 million increase due to North Carolina IMR increases; and
- an \$18 million increase due to addition of Belews Creek and Marshall Power Generation capacity contracts.

Operating Expenses. The variance was driven primarily by:

- a \$146 million decrease in cost of natural gas due to lower natural gas prices, lower volumes, and decreased off-system sales natural gas costs.

Partially offset by:

- an \$8 million increase in depreciation and amortization due to additional plant in service and higher depreciation rates, partially offset by Belews Creek and Marshall Power Generation contracts and amortization of EDIT interest expense; and
- an \$8 million increase in property and other taxes due to prior year property tax true ups.

Other Income and Expenses, net. The variance was driven primarily by AFUDC equity and other income related to Belews Creek and Marshall Power Generation contracts.

Interest Expense. The variance was driven primarily by interest on tax reform related deferrals being returned to customers and higher debt outstanding in the current year.

Income Tax Expense. The decrease in income tax expense was primarily due to an increase in the amortization of excess deferred taxes and an increase in AFUDC Equity, partially offset by an increase in pretax income.

CRITICAL ACCOUNTING POLICIES AND ESTIMATES

Preparation of financial statements requires the application of accounting policies, judgments, assumptions and estimates that can significantly affect the reported results of operations, cash flows or the amounts of assets and liabilities recognized in the financial statements. Judgments made include the likelihood of success of particular projects, possible legal and regulatory challenges, earnings assumptions on pension and other benefit fund investments and anticipated recovery of costs, especially through regulated operations.

Management discusses these policies, estimates and assumptions with senior members of management on a regular basis and provides periodic updates on management decisions to the Audit Committee. Management believes the areas described below require significant judgment in the application of accounting policy or in making estimates and assumptions that are inherently uncertain and that may change in subsequent periods.

For further information, see Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies."

Regulated Operations Accounting

Substantially all of Duke Energy's regulated operations meet the criteria for application of regulated operations accounting treatment. As a result, Duke Energy is required to record assets and liabilities that would not be recorded for nonregulated entities. Regulatory assets generally represent incurred costs that have been deferred because such costs are probable of future recovery in customer rates. Regulatory liabilities are recorded when it is probable that a regulator will require Duke Energy to make refunds to customers or reduce rates to customers for previous collections or deferred revenue for costs that have yet to be incurred.

Management continually assesses whether recorded regulatory assets are probable of future recovery by considering factors such as:

- applicable regulatory environment changes;
- historical regulatory treatment for similar costs in Duke Energy's jurisdictions;
- litigation of rate orders;
- recent rate orders to other regulated entities;

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CRITICAL ACCOUNTING POLICIES AND ESTIMATES

- levels of actual return on equity compared to approved rates of return on equity; and
- the status of any pending or potential deregulation legislation.

If future recovery of costs ceases to be probable, asset write-offs would be recognized in operating income. Additionally, regulatory agencies can provide flexibility in the manner and timing of the depreciation of property, plant and equipment, recognition of asset retirement costs and amortization of regulatory assets, or may disallow recovery of all or a portion of certain assets.

As required by regulated operations accounting rules, significant judgment can be required to determine if an otherwise recognizable incurred cost qualifies to be deferred for future recovery as a regulatory asset. Significant judgment can also be required to determine if revenues previously recognized are for entity specific costs that are no longer expected to be incurred or have not yet been incurred and are therefore a regulatory liability.

Goodwill Impairment Assessments

Duke Energy performed its annual goodwill impairment tests for all reporting units as of August 31, 2020. Additionally, Duke Energy monitors all relevant events and circumstances during the year to determine if an interim impairment test is required. Such events and circumstances include an adverse regulatory outcome, declining financial performance and deterioration of industry or market conditions. As of August 31, 2020, all of the reporting units' estimated fair value of equity substantially exceeded the carrying value of equity. The fair values of the reporting units were calculated using a weighted combination of the income approach, which estimates fair value based on discounted cash flows, and the market approach, which estimates fair value based on market comparables within the utility and energy industries.

Estimated future cash flows under the income approach are based on Duke Energy's internal business plan. Significant assumptions used are growth rates, future rates of return expected to result from ongoing rate regulation and discount rates. Management determines the appropriate discount rate for each of its reporting units based on the WACC for each individual reporting unit. The WACC takes into account both the after-tax cost of debt and cost of equity. A major component of the cost of equity is the current risk-free rate on 20-year U.S. Treasury bonds. In the 2020 impairment tests, Duke Energy considered implied WACCs for certain peer companies in determining the appropriate WACC rates to use in its analysis. As each reporting unit has a different risk profile based on the nature of its operations, including factors such as regulation, the WACC for each reporting unit may differ. Accordingly, the WACCs were adjusted, as appropriate, to account for company specific risk premiums. The discount rates used for calculating the fair values as of August 31, 2020, for each of Duke Energy's reporting units ranged from 5.2% to 5.7%. The underlying assumptions and estimates are made as of a point in time. Subsequent changes, particularly changes in the discount rates, authorized regulated rates of return or growth rates inherent in management's estimates of future cash flows, could result in future impairment charges.

One of the most significant assumptions utilized in determining the fair value of reporting units under the market approach is implied market multiples for certain peer companies. Management selects comparable peers based on each peer's primary business mix, operations, and market capitalization compared to the applicable reporting unit and calculates implied market multiples based on available projected earnings guidance and peer company market values as of August 31.

Duke Energy primarily operates in environments that are rate-regulated. In such environments, revenue requirements are adjusted periodically by regulators based on factors including levels of costs, sales volumes and costs of capital. Accordingly, Duke Energy's regulated utilities operate to some degree with a buffer from the direct effects, positive or negative, of significant swings in market or economic conditions. However, significant changes in discount rates over a prolonged period may have a material impact on the fair value of equity.

For further information, see Note 11 to the Consolidated Financial Statements, "Goodwill and Intangible Assets."

Asset Retirement Obligations

AROs are recognized for legal obligations associated with the retirement of property, plant and equipment at the present value of the projected liability in the period in which it is incurred, if a reasonable estimate of fair value can be made.

The present value of the initial obligation and subsequent updates are based on discounted cash flows, which include estimates regarding timing of future cash flows, selection of discount rates and cost escalation rates, among other factors. These estimates are subject to change.

Obligations for nuclear decommissioning are based on site-specific cost studies. Duke Energy Carolinas and Duke Energy Progress assume prompt dismantlement of the nuclear facilities after operations are ceased. During 2020, Duke Energy Florida, closed an agreement for the accelerated decommissioning of the Crystal River Unit 3 nuclear power station after receiving approval from the NRC and FPSC. The retirement obligations for the decommissioning of Crystal River Unit 3 nuclear power station are measured based on accelerated decommissioning from 2020 continuing through 2027. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida also assume that spent fuel will be stored on-site until such time that it can be transferred to a yet to be built DOE facility.

Obligations for closure of ash basins are based upon discounted cash flows of estimated costs for site-specific plans. During 2020, the Hoosier Environmental Council filed a Petition for Administrative Review with the Indiana Office of Environmental Adjudication challenging the Indiana Department of Environmental Management's partial approval of Duke Energy Indiana's ash pond closure plan. Due to these challenges, in 2020, Duke Energy Indiana remeasured and increased the closure estimates for certain coal ash impoundments.

For further information, see Notes 3, 4 and 9 to the Consolidated Financial Statements, "Regulatory Matters," "Commitments and Contingencies" and "Asset Retirement Obligations."

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CRITICAL ACCOUNTING POLICIES AND ESTIMATES

Long-Lived Asset Impairment Assessments, Excluding Regulated Operations, and Equity Method Investments

Duke Energy evaluates property, plant and equipment for impairment when events or changes in circumstances (such as a significant change in cash flow projections or the determination that it is more likely than not that an asset or asset group will be sold) indicate the carrying value of such assets may not be recoverable. The determination of whether an impairment has occurred is based on an estimate of undiscounted future cash flows attributable to the assets, as compared with their carrying value.

Performing an impairment evaluation involves a significant degree of estimation and judgment in areas such as identifying circumstances that indicate an impairment may exist, identifying and grouping affected assets and developing the undiscounted future cash flows. If an impairment has occurred, the amount of the impairment recognized is determined by estimating the fair value and recording a loss if the carrying value is greater than the fair value. Additionally, determining fair value requires probability weighting future cash flows to reflect expectations about possible variations in their amounts or timing and the selection of an appropriate discount rate. Although cash flow estimates are based on relevant information available at the time the estimates are made, estimates of future cash flows are, by nature, highly uncertain and may vary significantly from actual results.

When determining whether an asset or asset group has been impaired, management groups assets at the lowest level that has discrete cash flows. Investments in affiliates that are not controlled by Duke Energy, but over which it has significant influence, are accounted for using the equity method. Equity method investments are assessed for impairment when conditions exist that indicate that the fair value of the investment is less than book value. If the decline in value is considered to be other than temporary, the investment is written down to its estimated fair value, which establishes a new cost basis in the investment.

During 2020, Duke Energy evaluated recoverability of certain renewable merchant plants due to declining market pricing and declining long-term forecasted energy prices, primarily driven by lower forecasted natural gas prices, capital cost of new renewables and increase renewable penetration. It was determined the assets were all recoverable as the carrying value of the assets approximated or exceeded the aggregate estimated future cash flows.

For further information, see Notes 2, 10 and 12 to the Consolidated Financial Statements, "Business Segments," "Property, Plant and Equipment" and "Investments in Unconsolidated Affiliates."

Pension and Other Post-Retirement Benefits

The calculation of pension expense, other post-retirement benefit expense and net pension and other post-retirement assets or liabilities require the use of assumptions and election of permissible accounting alternatives. Changes in assumptions can result in different expense and reported asset or liability amounts and future actual experience can differ from the assumptions. Duke Energy believes the most critical assumptions for pension and other post-retirement benefits are the expected long-term rate of return on plan assets and the assumed discount rate applied to future projected benefit payments.

Duke Energy elects to amortize net actuarial gain or loss amounts that are in excess of 10% of the greater of the market-related value of plan assets or the plan's projected benefit obligation, into net pension or other post-retirement benefit expense over the average remaining service period of active participants expected to benefit under the plan. If all or almost all of a plan's participants are inactive, the average remaining life expectancy of the inactive participants is used instead of average remaining service period. Prior service cost or credit, which represents an increase or decrease in a plan's pension benefit obligation resulting from plan amendment, is amortized on a straight-line basis over the average expected remaining service period of active participants expected to benefit under the plan. If all or almost all of a plan's participants are inactive, the average remaining life expectancy of the inactive participants is used instead of average remaining service period.

As of December 31, 2020, Duke Energy assumes pension and other post-retirement plan assets will generate a long-term rate of return of 6.50%. The expected long-term rate of return was developed using a weighted average calculation of expected returns based primarily on future expected returns across asset classes considering the use of active asset managers, where applicable. The asset allocation targets were set after considering the investment objective and the risk profile. Equity securities are held for their higher expected returns. Debt securities are primarily held to hedge the qualified pension liability. Real assets, return-seeking fixed income, hedge funds and other global securities are held for diversification. Investments within asset classes are diversified to achieve broad market participation and reduce the impact of individual managers on investments.

Duke Energy discounted its future U.S. pension and other post-retirement obligations using a rate of 2.60% as of December 31, 2020. Discount rates used to measure benefit plan obligations for financial reporting purposes reflect rates at which pension benefits could be effectively settled. As of December 31, 2020, Duke Energy determined its discount rate for U.S. pension and other post-retirement obligations using a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high-quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

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CRITICAL ACCOUNTING POLICIES AND ESTIMATES

Future changes in plan asset returns, assumed discount rates and various other factors related to the participants in Duke Energy's pension and post-retirement plans will impact future pension expense and liabilities. Duke Energy cannot predict with certainty what these factors will be in the future. The following table presents the approximate effect on Duke Energy's 2020 pretax pension expense, pretax other post-retirement expense, pension obligation and other post-retirement benefit obligation if a 0.25% change in rates were to occur.

(in millions)	Qualified and Non-Qualified Pension Plans		Other Post-Retirement Plans	
	0.25 %	(0.25)%	0.25 %	(0.25)%
Effect on 2020 pretax pension and other post-retirement expense:				
Expected long-term rate of return	\$ (21)	\$ 21	\$ (1)	\$ 1
Discount rate	(9)	9	—	(1)
Effect on pension and other post-retirement benefit obligation at December 31, 2020:				
Discount rate	(208)	213	(13)	14

Duke Energy's other post-retirement plan uses a health care cost trend rate covering both pre- and post-age 65 retired plan participants, which is comprised of a medical care cost trend rate, which reflects the near- and long-term expectation of increases in medical costs, and a prescription drug cost trend rate, which reflects the near- and long-term expectation of increases in prescription drug costs. As of December 31, 2020, the health care cost trend rate was 6.25%, trending down to 4.75% by 2028. These plans are closed to new employees.

For further information, see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans."

LIQUIDITY AND CAPITAL RESOURCES

Sources and Uses of Cash

Duke Energy relies primarily upon cash flows from operations, debt and equity issuances and its existing cash and cash equivalents to fund its liquidity and capital requirements. Duke Energy's capital requirements arise primarily from capital and investment expenditures, repaying long-term debt and paying dividends to shareholders.

Among other provisions, the Tax Act lowered the corporate federal income tax rate from 35% to 21% and eliminated bonus depreciation for regulated utilities. For Duke Energy's regulated operations, the reduction in federal income taxes will result in lower regulated customer rates. However, due to its existing NOL position and other tax credits, Duke Energy does not expect to be a significant federal cash taxpayer through at least 2029. As a result, any reduction in customer rates could cause a material reduction in consolidated cash flows from operations in the short term. Over time, the reduction in deferred tax liabilities resulting from the Tax Act will increase Duke Energy's regulated rate base investments and customer rates. Impacts of the Tax Act to Duke Energy's cash flows and credit metrics are subject to the regulatory actions of its state commissions and the FERC. See Note 3 to the Consolidated Financial Statements, "Regulatory Matters," for additional information.

The Subsidiary Registrants generally maintain minimal cash balances and use short-term borrowings to meet their working capital needs and other cash requirements. The Subsidiary Registrants, excluding Progress Energy, support their short-term borrowing needs through participation with Duke Energy and certain of its other subsidiaries in a money pool arrangement. The companies with short-term funds may provide short-term loans to affiliates participating under this arrangement. See Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities," for additional discussion of the money pool arrangement.

Duke Energy and the Subsidiary Registrants, excluding Progress Energy, may also use short-term debt, including commercial paper and the money pool, as a bridge to long-term debt financings. The levels of borrowing may vary significantly over the course of the year due to the timing of long-term debt financings and the impact of fluctuations in cash flows from operations. From time to time, Duke Energy's current liabilities exceed current assets resulting from the use of short-term debt as a funding source to meet scheduled maturities of long-term debt, as well as cash needs, which can fluctuate due to the seasonality of its businesses.

During March 2020, in response to market volatility and the ongoing economic uncertainty related to COVID-19, Duke Energy took several actions to enhance the company's liquidity position including:

- Duke Energy drew down the remaining \$500 million of availability under the existing \$1 billion Three-Year Revolving Credit Facility. That additional borrowing was subsequently repaid during the second quarter of 2020; and
- Duke Energy entered into and borrowed the full amount under a \$1.5 billion, 364-day Term Loan Credit Agreement. The Term Loan Credit Agreement contained a provision for additional borrowing capacity of \$500 million. Duke Energy exercised the provision and borrowed an additional \$188 million, for a total borrowing of approximately \$1.7 billion. By November 2020, Duke Energy repaid the entire borrowing under the 364-day Term Loan.

Following March 2020, access to credit and equity markets has normalized. In addition to the March 2020 financings to address the company's liquidity position, for the year ended December 31, 2020, Duke Energy issued approximately \$5.6 billion in debt and raised approximately \$2.9 billion of common equity through equity forward agreements and the company's dividend reinvestment and ATM programs. A portion of the proceeds from the equity forward settlements will be used to fully repay Duke Energy's portion of the ACP construction loan of approximately \$860 million. Despite the recovery in capital markets, Duke Energy continues to monitor access to credit and equity markets amid the ongoing economic uncertainty related to COVID-19.

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LIQUIDITY AND CAPITAL RESOURCES

In addition to actions taken by the company, the CARES Act, enacted in March 2020, as an emergency economic stimulus package in response to the COVID-19 pandemic, included provisions providing relief to entities with remaining AMT credit refund allowances. Through the CARES Act, Duke Energy accelerated remaining AMT credit refund allowances and claimed a refund in full for any AMT credit carryforwards. As a result, in the third quarter of 2020, Duke Energy received \$572 million related to AMT credit carryforwards and \$19 million of interest income. See Note 23 to the Consolidated Financial Statements, "Income Taxes," for additional information.

As of December 31, 2020, Duke Energy had approximately \$259 million of cash on hand, \$5.6 billion available under its \$8 billion Master Credit Facility and \$500 million available under the \$1 billion Three-Year Revolving Credit Facility. Duke Energy expects to have sufficient liquidity in the form of cash on hand, cash from operations and available credit capacity to support its funding needs. Refer to Notes 6 and 19 to the Consolidated Financial Statements, "Debt and Credit Facilities" and "Stockholders' Equity," respectively, for information regarding Duke Energy's debt and equity issuances, debt maturities and available credit facilities including the Master Credit Facility.

Credit Facilities and Registration Statements

See Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities," for further information regarding credit facilities and shelf registration statements available to Duke Energy and the Duke Energy Registrants.

CAPITAL EXPENDITURES

Duke Energy continues to focus on reducing risk and positioning its business for future success and will invest principally in its strongest business sectors. Duke Energy's projected capital and investment expenditures, including AFUDC debt and capitalized interest, for the next three fiscal years are included in the table below.

(in millions)	2021	2022	2023
New generation	\$ 60	\$ 20	\$ 85
Regulated renewables	665	710	755
Environmental	795	820	600
Nuclear fuel	425	400	380
Major nuclear	280	270	205
Customer additions	565	555	560
Grid modernization and other transmission and distribution projects	3,460	5,025	4,840
Maintenance and other	2,200	2,650	2,750
Total Electric Utilities and Infrastructure	8,450	10,450	10,175
Gas Utilities and Infrastructure	1,250	1,275	1,150
Commercial Renewables and Other	775	1,075	750
Total projected capital and investment expenditures	\$ 10,475	\$ 12,800	\$ 12,075

DEBT MATURITIES

See Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities," for further information regarding significant components of Current Maturities of Long-Term Debt on the Consolidated Balance Sheets.

DIVIDEND PAYMENTS

In 2020, Duke Energy paid quarterly cash dividends for the 94th consecutive year and expects to continue its policy of paying regular cash dividends in the future. There is no assurance as to the amount of future dividends because they depend on future earnings, capital requirements, financial condition and are subject to the discretion of the Board of Directors.

Duke Energy targets a dividend payout ratio of between 65% and 75%, based upon adjusted EPS, and expects this trend to continue through 2025. Duke Energy increased the dividend by approximately 2% annually in both 2020 and 2019, and the company remains committed to continued growth of the dividend.

Dividend and Other Funding Restrictions of Duke Energy Subsidiaries

As discussed in Note 3 to the Consolidated Financial Statements, "Regulatory Matters," Duke Energy's wholly owned public utility operating companies have restrictions on the amount of funds that can be transferred to Duke Energy through dividends, advances or loans as a result of conditions imposed by various regulators in conjunction with merger transactions. Duke Energy Progress and Duke Energy Florida also have restrictions imposed by their first mortgage bond indentures and Articles of Incorporation, which in certain circumstances, limit their ability to make cash dividends or distributions on common stock. Additionally, certain other Duke Energy subsidiaries have other restrictions, such as minimum working capital and tangible net worth requirements pursuant to debt and other agreements that limit the amount of funds that can be transferred to Duke Energy. At December 31, 2020, the amount of restricted net assets of wholly owned subsidiaries of Duke Energy that may not be distributed to Duke Energy in the form of a loan or dividend does not exceed a material amount of Duke Energy's net assets. Duke Energy does not have any legal or other restrictions on paying common stock dividends to shareholders out of its consolidated equity accounts. Although these restrictions cap the amount of funding the various operating subsidiaries can provide to Duke Energy, management does not believe these restrictions will have a significant impact on Duke Energy's ability to access cash to meet its payment of dividends on common stock and other future funding obligations.

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LIQUIDITY AND CAPITAL RESOURCES

CASH FLOWS FROM OPERATING ACTIVITIES

Cash flows from operations of Electric Utilities and Infrastructure and Gas Utilities and Infrastructure are primarily driven by sales of electricity and natural gas, respectively, and costs of operations. These cash flows from operations are relatively stable and comprise a substantial portion of Duke Energy's operating cash flows. Weather conditions, working capital and commodity price fluctuations and unanticipated expenses including unplanned plant outages, storms, legal costs and related settlements can affect the timing and level of cash flows from operations.

As part of Duke Energy's continued effort to improve its cash flows from operations and liquidity, Duke Energy works with vendors to improve terms and conditions, including the extension of payment terms. To support this effort, Duke Energy established a supply chain finance program (the "program") in 2020, under which suppliers, at their sole discretion, may sell their receivables from Duke Energy to the participating financial institution. The financial institution administers the program. Duke Energy does not issue any guarantees with respect to the program and does not participate in negotiations between suppliers and the financial institution. Duke Energy does not have an economic interest in the supplier's decision to participate in the program and receives no interest, fees or other benefit from the financial institution based on supplier participation in the program. Suppliers' decisions on which invoices are sold do not impact Duke Energy's payment terms, which are based on commercial terms negotiated between Duke Energy and the supplier regardless of program participation. A significant deterioration in the credit quality of Duke Energy, economic downturn or changes in the financial markets could limit the financial institutions willingness to participate in the program. Duke Energy does not believe such risk would have a material impact on our cash flows from operations or liquidity, as substantially all our payments are made outside the program.

Duke Energy believes it has sufficient liquidity resources through the commercial paper markets, and ultimately, the Master Credit Facility, to support these operations. Cash flows from operations are subject to a number of other factors, including, but not limited to, regulatory constraints, economic trends and market volatility (see Item 1A, "Risk Factors," for additional information).

DEBT ISSUANCES

Depending on availability based on the issuing entity, the credit rating of the issuing entity, and market conditions, the Subsidiary Registrants prefer to issue first mortgage bonds and secured debt, followed by unsecured debt. This preference is the result of generally higher credit ratings for first mortgage bonds and secured debt, which typically result in lower interest costs. Duke Energy Corporation primarily issues unsecured debt.

In 2021, Duke Energy anticipates issuing additional securities of \$8 billion through debt capital markets. Additionally, Duke Energy may utilize other instruments, including equity-content securities, such as preferred stock. Proceeds will primarily be for the purpose of funding capital expenditures and debt maturities. See to Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities," for further information regarding significant debt issuances in 2020.

Duke Energy's capitalization is balanced between debt and equity as shown in the table below.

	Projected 2021	Actual 2020	Actual 2019
Equity	44 %	44 %	44 %
Debt	56 %	56 %	56 %

Restrictive Debt Covenants

Duke Energy's debt and credit agreements contain various financial and other covenants. Duke Energy's Master Credit Facility contains a covenant requiring the debt-to-total capitalization ratio to not exceed 65% for each borrower, excluding Piedmont, and 70% for Piedmont. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements or sublimits thereto. As of December 31, 2020, each of the Duke Energy Registrants was in compliance with all covenants related to their debt agreements. In addition, some credit agreements may allow for acceleration of payments or termination of the agreements due to nonpayment, or acceleration of other significant indebtedness of the borrower or some of its subsidiaries. None of the debt or credit agreements contain material adverse change clauses.

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LIQUIDITY AND CAPITAL RESOURCES

Credit Ratings

Moody's Investors Service, Inc. and S&P provide credit ratings for various Duke Energy Registrants. During January 2021, S&P downgraded the issuer credit rating for Duke Energy (Parent) and all of its subsidiaries senior unsecured debt, excluding Progress Energy, from A- to BBB+. Additionally, S&P downgraded the credit rating for Duke Energy (Parent) and Progress Energy senior unsecured debt from BBB+ to BBB. As part of the credit rating report, S&P affirmed their credit rating on senior secured debt for Duke Energy Carolinas, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio and Duke Energy Indiana, while also affirming the short-term and commercial paper credit ratings. These actions followed a December 2020, report by S&P to revise the credit rating outlook from stable to negative for Duke Energy and all its subsidiaries. As a result of the downgrade, credit rating outlooks returned to stable. Additionally, during October 2020, Moody's revised their credit rating outlook for Duke Energy (Parent), Duke Energy Carolinas and Duke Energy Progress from stable to negative and in February 2021, revised the credit rating outlook for these same registrants to review for downgrade. The following table includes Duke Energy and certain subsidiaries' credit ratings and ratings outlook as of February 2021.

	Moody's	S&P
Duke Energy Corporation	Review for Downgrade	Stable
Issuer Credit Rating	Baa1	BBB+
Senior Unsecured Debt	Baa1	BBB
Commercial Paper	P-2	A-2
Duke Energy Carolinas	Review for Downgrade	Stable
Senior Secured Debt	Aa2	A
Senior Unsecured Debt	A1	BBB+
Progress Energy	Stable	Stable
Senior Unsecured Debt	Baa1	BBB
Duke Energy Progress	Review for Downgrade	Stable
Senior Secured Debt	Aa3	A
Senior Unsecured Debt	A2	BBB+
Duke Energy Florida	Stable	Stable
Senior Secured Debt	A1	A
Senior Unsecured Debt	A3	BBB+
Duke Energy Ohio	Stable	Stable
Senior Secured Debt	A2	A
Senior Unsecured Debt	Baa1	BBB+
Duke Energy Indiana	Stable	Stable
Senior Secured Debt	Aa3	A
Senior Unsecured Debt	A2	BBB+
Duke Energy Kentucky	Stable	Stable
Senior Unsecured Debt	Baa1	BBB+
Piedmont Natural Gas	Stable	Stable
Senior Unsecured	A3	BBB+

Credit ratings are intended to provide credit lenders a framework for comparing the credit quality of securities and are not a recommendation to buy, sell or hold. The Duke Energy Registrants' credit ratings are dependent on the rating agencies' assessments of their ability to meet their debt principal and interest obligations when they come due. If, as a result of market conditions or other factors, the Duke Energy Registrants are unable to maintain current balance sheet strength, or if earnings and cash flow outlook materially deteriorates, credit ratings could be negatively impacted.

Cash Flow Information

The following table summarizes Duke Energy's cash flows for the two most recently completed fiscal years.

	Years Ended December 31,	
(in millions)	2020	2019
Cash flows provided by (used in):		
Operating activities	\$ 8,856	\$ 8,209
Investing activities	(10,604)	(11,957)
Financing activities	1,731	3,730
Net decrease in cash, cash equivalents and restricted cash	(17)	(18)
Cash, cash equivalents and restricted cash at beginning of period	573	591
Cash, cash equivalents and restricted cash at end of period	\$ 556	\$ 573

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LIQUIDITY AND CAPITAL RESOURCES

OPERATING CASH FLOWS

The following table summarizes key components of Duke Energy's operating cash flows for the two most recently completed fiscal years.

(in millions)	Years Ended December 31,		
	2020	2019	Variance
Net income	\$ 1,082	\$ 3,571	\$ (2,489)
Non-cash adjustments to net income	8,343	5,737	2,606
Payments for AROs	(610)	(746)	136
Refund of AMT credit carryforwards	572	573	(1)
Working capital	(531)	(926)	395
Net cash provided by operating activities	\$ 8,856	\$ 8,209	\$ 647

The variance was driven primarily by:

- a \$117 million increase in net income after adjustment for non-cash items primarily due to increases in current year non-cash adjustments, partially offset by decreases in revenues due to lower sales volumes, accelerated refund of fuel costs at Duke Energy Florida in response to the COVID-19 pandemic and lower wholesale revenue driven by the CCR Settlement Agreement;
- a \$395 million decrease in cash outflows from working capital primarily due to fluctuations in inventory levels, accounts payable levels and lower income taxes paid in the current year; and
- a \$136 million decrease in payments for AROs.

INVESTING CASH FLOWS

The following table summarizes key components of Duke Energy's investing cash flows for the two most recently completed fiscal years.

(in millions)	Years Ended December 31,		
	2020	2019	Variance
Capital, investment and acquisition expenditures, net of return of investment capital	\$ (10,144)	\$ (11,435)	\$ 1,291
Debt and equity securities, net	(62)	(5)	(57)
Other investing items	(398)	(517)	119
Net cash used in investing activities	\$ (10,604)	\$ (11,957)	\$ 1,353

The primary use of cash related to investing activities is capital, investment and acquisition expenditures, net of return of investment capital detailed by reportable business segment in the following table. The decrease relates primarily to decreases in capital expenditures due to lower overall investments in the Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables segments.

(in millions)	Years Ended December 31,		
	2020	2019	Variance
Electric Utilities and Infrastructure	\$ 7,629	\$ 8,258	\$ (629)
Gas Utilities and Infrastructure	1,309	1,533	(224)
Commercial Renewables	1,075	1,423	(348)
Other	264	221	43
Total capital, investment and acquisition expenditures, net of return of investment capital	\$ 10,277	\$ 11,435	\$ (1,158)

FINANCING CASH FLOWS

The following table summarizes key components of Duke Energy's financing cash flows for the two most recently completed fiscal years.

(in millions)	Years Ended December 31,		
	2020	2019	Variance
Issuance of common stock	\$ 2,745	\$ 384	\$ 2,361
Issuance of preferred stock	—	1,962	(1,962)
Issuances of long-term debt, net	1,824	3,615	(1,791)
Notes payable and commercial paper	(319)	(380)	61
Dividends paid	(2,812)	(2,668)	(144)
Contributions from noncontrolling interests	426	843	(417)
Other financing items	(133)	(26)	(107)
Net cash provided by financing activities	\$ 1,731	\$ 3,730	\$ (1,999)

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LIQUIDITY AND CAPITAL RESOURCES

The variance was driven primarily by:

- a \$1,962 million decrease in proceeds from the issuance of preferred stock;
- a \$1,791 million net decrease in proceeds from issuances of long-term debt primarily due to timing of issuances and redemptions of long-term debt; and
- a \$417 million decrease in contributions from noncontrolling interests, primarily due to \$415 million related to the sale of a noncontrolling interest in the Commercial Renewables segment in 2019.

Partially offset by:

- a \$2,361 million increase in proceeds from the issuance of common stock, primarily from the settlement of equity forwards.

Off-Balance Sheet Arrangements

Duke Energy and certain of its subsidiaries enter into guarantee arrangements in the normal course of business to facilitate commercial transactions with third parties. These arrangements include performance guarantees, standby letters of credit, debt guarantees, surety bonds and indemnifications.

Most of the guarantee arrangements entered into by Duke Energy enhance the credit standing of certain subsidiaries, non-consolidated entities or less than wholly owned entities, enabling them to conduct business. As such, these guarantee arrangements involve elements of performance and credit risk, which are not always included on the Consolidated Balance Sheets. The possibility of Duke Energy, either on its own or on behalf of Spectra Capital through indemnification agreements entered into as part of the January 2, 2007, spin-off of Spectra Energy Corp, having to honor its contingencies is largely dependent upon the future operations of the subsidiaries, investees and other third parties, or the occurrence of certain future events.

Duke Energy performs ongoing assessments of its respective guarantee obligations to determine whether any liabilities have been incurred as a result of potential increased nonperformance risk by third parties for which Duke Energy has issued guarantees. See Note 7 to the Consolidated Financial Statements, "Guarantees and Indemnifications," for further details of the guarantee arrangements. Issuance of these guarantee arrangements is not required for the majority of Duke Energy's operations. Thus, if Duke Energy discontinued issuing these guarantees, there would not be a material impact to the consolidated results of operations, cash flows or financial position.

Other than the guarantee arrangements discussed above and off-balance sheet debt related to non-consolidated VIEs, Duke Energy does not have any material off-balance sheet financing entities or structures. For additional information, see Note 17 to the Consolidated Financial Statements, "Variable Interest Entities."

Contractual Obligations

Duke Energy enters into contracts that require payment of cash at certain specified periods, based on certain specified minimum quantities and prices. The following table summarizes Duke Energy's contractual cash obligations as of December 31, 2020.

		Payments Due By Period			
		Less than 1 year (2021)	2-3 years (2022 & 2023)	4-5 years (2024 & 2025)	More than 5 years (2026 & beyond)
(in millions)	Total				
Long-term debt ^(a)	\$ 58,134	\$ 4,110	\$ 8,011	\$ 4,408	\$ 41,605
Interest payments on long-term debt ^(b)	33,858	2,099	3,898	3,577	24,284
Finance leases ^(c)	1,465	186	347	170	762
Operating leases ^(c)	1,861	229	414	348	870
Purchase obligations: ^(d)					
Fuel and purchased power ^{(e)(f)}	16,591	3,489	4,248	2,998	5,856
Other purchase obligations ^(g)	9,916	8,850	974	52	40
Nuclear decommissioning trust annual funding ^(h)	363	20	40	40	263
Land easements ⁽ⁱ⁾	400	12	24	24	340
Total contractual cash obligations ^{(j)(k)}	\$ 122,588	\$ 18,995	\$ 17,956	\$ 11,617	\$ 74,020

(a) See Note 6 to the Consolidated Financial Statements, "Debt and Credit Facilities."

(b) Interest payments on variable rate debt instruments were calculated using December 31, 2020, interest rates and holding them constant for the life of the instruments.

(c) See Note 5 to the Consolidated Financial Statements, "Leases." Amounts in the table above include the interest component of finance leases based on the interest rates stated in the lease agreements and exclude certain related executory costs. Amounts exclude contingent lease obligations.

(d) Current liabilities, except for current maturities of long-term debt, and purchase obligations reflected on the Consolidated Balance Sheets have been excluded from the above table.

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OFF-BALANCE SHEET ARRANGEMENTS AND CONTRACTUAL OBLIGATIONS

- (e) Includes firm capacity payments that provide Duke Energy with uninterrupted firm access to electricity transmission capacity and natural gas transportation contracts, as well as undesignated contracts and contracts that qualify as NPNS. For contracts where the price paid is based on an index, the amount is based on market prices at December 31, 2020, or the best projections of the index. For certain of these amounts, Duke Energy may settle on a net cash basis since Duke Energy has entered into payment netting arrangements with counterparties that permit Duke Energy to offset receivables and payables with such counterparties.
- (f) Amounts exclude obligations under the OVEC PPA. See Note 17 to the Consolidated Financial Statements, "Variable Interest Entities," for additional information.
- (g) Includes contracts for software, telephone, data and consulting or advisory services. Amount also includes contractual obligations for EPC costs for new generation plants, wind and solar facilities, plant refurbishments, maintenance and day-to-day contract work and commitments to buy certain products. Amount excludes certain open purchase orders for services that are provided on demand for which the timing of the purchase cannot be determined.
- (h) Related to future annual funding obligations to NDTF through nuclear power stations' relicensing dates. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations."
- (i) Related to Commercial Renewables wind facilities.
- (j) Unrecognized tax benefits of \$125 million are not reflected in this table as Duke Energy cannot predict when open income tax years will close with completed examinations. See Note 23 to the Consolidated Financial Statements, "Income Taxes."
- (k) The table above excludes reserves for litigation, environmental remediation, asbestos-related injuries and damages claims and self-insurance claims (see Note 4 to the Consolidated Financial Statements, "Commitments and Contingencies") because Duke Energy is uncertain as to the timing and amount of cash payments that will be required. Additionally, the table above excludes annual insurance premiums that are necessary to operate the business, including nuclear insurance (see Note 4 to the Consolidated Financial Statements, "Commitments and Contingencies"), funding of pension and other post-retirement benefit plans (see Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans"), AROs, including ash management expenditures (see Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations") and regulatory liabilities (see Note 3 to the Consolidated Financial Statements, "Regulatory Matters") because the amount and timing of the cash payments are uncertain. Also excluded are Deferred Income Taxes and ITCs recorded on the Consolidated Balance Sheets since cash payments for income taxes are determined based primarily on taxable income for each discrete fiscal year.

QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Risk Management Policies

The Enterprise Risk Management policy framework at Duke Energy includes strategy, operational, project execution and financial or transaction related risks. Enterprise Risk Management includes market risk as part of the financial and transaction related risks in its framework.

Duke Energy is exposed to market risks associated with commodity prices, interest rates and equity prices. Duke Energy has established comprehensive risk management policies to monitor and manage these market risks. Duke Energy's Chief Executive Officer and Chief Financial Officer are responsible for the overall approval of market risk management policies and the delegation of approval and authorization levels. The Finance and Risk Management Committee of the Board of Directors receives periodic updates from the Chief Risk Officer and other members of management on market risk positions, corporate exposures and overall risk management activities. The Chief Risk Officer is responsible for the overall governance of managing commodity price risk, including monitoring exposure limits.

The following disclosures about market risk contain forward-looking statements that involve estimates, projections, goals, forecasts, assumptions, risks and uncertainties that could cause actual results or outcomes to differ materially from those expressed in the forward-looking statements. See Item 1A, "Risk Factors," and "Cautionary Statement Regarding Forward-Looking Information" for a discussion of the factors that may impact any such forward-looking statements made herein.

Commodity Price Risk

Duke Energy is exposed to the impact of market fluctuations in the prices of electricity, coal, natural gas and other energy-related products marketed and purchased as a result of its ownership of energy-related assets. Duke Energy's exposure to these fluctuations is primarily limited by the cost-based regulation of its regulated operations as these operations are typically allowed to recover substantially all of these costs through various cost-recovery clauses, including fuel clauses, formula-based contracts, or other cost-sharing mechanisms. While there may be a delay in timing between when these costs are incurred and when they are recovered through rates, changes from year to year generally do not have a material impact on operating results of these regulated operations. Within Duke Energy's Commercial Renewables segment, the company has limited exposure to market price fluctuations in prices of energy-related products as a result of its ownership of renewable assets.

Price risk represents the potential risk of loss from adverse changes in the market price of electricity or other energy commodities. Duke Energy's exposure to commodity price risk is influenced by a number of factors, including contract size, length, market liquidity, market conditions, location and unique or specific contract terms. Duke Energy employs established policies and procedures to manage risks associated with these market fluctuations, which may include using various commodity derivatives, such as swaps, futures, forwards and options. For additional information, see Note 14 to the Consolidated Financial Statements, "Derivatives and Hedging."

Hedging Strategies

Duke Energy closely monitors risks associated with commodity price changes on its future operations and, where appropriate, uses various commodity instruments such as electricity, coal and natural gas forward contracts and options to mitigate the effect of such fluctuations on operations. Duke Energy's primary use of energy commodity derivatives is to hedge against exposure to the prices of power, fuel for generation and natural gas for customers. Additionally, Duke Energy's Commercial Renewables business may enter into short-term or long-term hedge agreements to manage price risk associated with project output.

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QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

The majority of instruments used to manage Duke Energy's commodity price exposure are either not designated as hedges or do not qualify for hedge accounting. These instruments are referred to as undesignated contracts. Mark-to-market changes for undesignated contracts entered into by regulated businesses are reflected as regulatory assets or liabilities on the Consolidated Balance Sheets. Undesignated contracts entered into by nonregulated businesses are marked-to-market each period, with changes in the fair value of the derivative instruments reflected in earnings.

Duke Energy may also enter into other contracts that qualify for the NPNS exception. When a contract meets the criteria to qualify as NPNS, Duke Energy applies such exception. Income recognition and realization related to NPNS contracts generally coincide with the physical delivery of the commodity. For contracts qualifying for the NPNS exception, no recognition of the contract's fair value in the Consolidated Financial Statements is required until settlement of the contract as long as the transaction remains probable of occurring.

Generation Portfolio Risks

The Duke Energy Registrants optimize the value of their generation portfolios, which include generation assets, fuel and emission allowances. Modeled forecasts of future generation output and fuel requirements are based on forward power and fuel markets. The component pieces of the portfolio are bought and sold based on models and forecasts of generation in order to manage the economic value of the portfolio in accordance with the strategies of the business units.

For the Electric Utilities and Infrastructure segment, the generation portfolio not utilized to serve retail operations or committed load is subject to commodity price fluctuations. However, the impact on the Consolidated Statements of Operations is partially offset by mechanisms in these regulated jurisdictions that result in the sharing of net profits from these activities with retail customers.

Interest Rate Risk

Duke Energy is exposed to risk resulting from changes in interest rates as a result of its issuance or anticipated issuance of variable and fixed-rate debt and commercial paper. Duke Energy manages interest rate exposure by limiting variable-rate exposures to a percentage of total debt and by monitoring the effects of market changes in interest rates. Duke Energy also enters into financial derivative instruments, which may include instruments such as, but not limited to, interest rate swaps, swaptions and U.S. Treasury lock agreements to manage and mitigate interest rate risk exposure. See Notes 1, 6, 14 and 16 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies," "Debt and Credit Facilities," "Derivatives and Hedging," and "Fair Value Measurements."

Duke Energy had \$7.6 billion of unhedged long- and short-term floating interest rate exposure at December 31, 2020. The impact of a 100-basis point change in interest rates on pretax income is approximately \$76 million at December 31, 2020. This amount was estimated by considering the impact of the hypothetical interest rates on variable-rate securities outstanding, adjusted for interest rate hedges as of December 31, 2020.

Certain Duke Energy Registrants have variable-rate debt and manage interest rate risk by entering into financial contracts including interest rate swaps. See Notes 6 and 14 to the Consolidated Financial Statements, "Debt and Credit Facilities" and "Derivatives and Hedging." Such financial arrangements generally are indexed based upon LIBOR, which is expected to be phased out by the end of 2021. The Secured Overnight Financing Rate (SOFR) has been identified by regulators and industry participants as the preferred successor rate for U.S. dollar-based LIBOR at that time. Impacted financial arrangements extending beyond 2021 may require contractual amendment or termination and renegotiation to fully adapt to a post-LIBOR environment, and there may be uncertainty regarding the effectiveness of any such alternative index methodologies. Alternative index provisions are being assessed and incorporated into new financial arrangements that extend beyond 2021. Additionally, the progress of the phaseout is being monitored, including proposed transition relief from the FASB.

Credit Risk

Credit risk represents the loss that the Duke Energy Registrants would incur if a counterparty fails to perform under its contractual obligations. Where exposed to credit risk, the Duke Energy Registrants analyze the counterparty's financial condition prior to entering into an agreement and monitor exposure on an ongoing basis. The Duke Energy Registrants establish credit limits where appropriate in the context of contractual arrangements and monitor such limits.

To reduce credit exposure, the Duke Energy Registrants seek to include netting provisions with counterparties, which permit the offset of receivables and payables with such counterparties. The Duke Energy Registrants also frequently use master agreements with credit support annexes to further mitigate certain credit exposures. The master agreements provide for a counterparty to post cash or letters of credit to the exposed party for exposure in excess of an established threshold. The threshold amount represents a negotiated unsecured credit limit for each party to the agreement, determined in accordance with the Duke Energy Registrants' internal corporate credit practices and standards. Collateral agreements generally also provide that the failure to post collateral when required is sufficient cause to terminate transactions and liquidate all positions.

The Duke Energy Registrants also obtain cash, letters of credit, or surety bonds from certain counterparties to provide credit support outside of collateral agreements, where appropriate, based on a financial analysis of the counterparty and the regulatory or contractual terms and conditions applicable to each transaction. See Note 14 to the Consolidated Financial Statements, "Derivatives and Hedging," for additional information regarding credit risk related to derivative instruments.

The Duke Energy Registrants' principal counterparties for its electric and natural gas businesses are RTOs, distribution companies, municipalities, electric cooperatives and utilities located throughout the U.S. Exposure to these entities consists primarily of amounts due to Duke Energy Registrants for delivered electricity. Additionally, there may be potential risks associated with remarketing of energy and capacity in the event of default by wholesale power customers. The Duke Energy Registrants have concentrations of receivables from certain of such entities that may affect the Duke Energy Registrants' credit risk.

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QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

The Duke Energy Registrants are also subject to credit risk from transactions with their suppliers that involve prepayments or milestone payments in conjunction with outsourcing arrangements, major construction projects and certain commodity purchases. The Duke Energy Registrants' credit exposure to such suppliers may take the form of increased costs or project delays in the event of nonperformance. The Duke Energy Registrants' frequently require guarantees or letters of credit from suppliers to mitigate this credit risk.

Credit risk associated with the Duke Energy Registrants' service to residential, commercial and industrial customers is generally limited to outstanding accounts receivable. The Duke Energy Registrants mitigate this credit risk by requiring tariff customers to provide a cash deposit, letter of credit or surety bond until a satisfactory payment history is established, subject to the rules and regulations in effect in each retail jurisdiction at which time the deposit is typically refunded. Charge-offs for retail customers have historically been insignificant to the operations of the Duke Energy Registrants and are typically recovered through retail rates. Management continually monitors customer charge-offs, payment patterns and the impact of current economic conditions on customers' ability to pay their outstanding balance to ensure the adequacy of bad debt reserves.

In response to the COVID-19 pandemic, in March 2020, the Duke Energy Registrants announced a suspension of disconnections for nonpayment to be effective throughout the national emergency. While disconnections have resumed, the company continues to offer flexible options to customers struggling with the pandemic and the economic fallout, including extended payment arrangements to satisfy delinquent balances. In addition, the Duke Energy Registrants are monitoring the effects of the resultant economic slowdown on counterparties' abilities to perform under their contractual obligations. The Duke Energy Registrants have observed a significant increase in utility account arrears, which were roughly double historical levels as of December 31, 2020. There is an expectation of an increase in charge-offs in the future. See Notes 1, 3 and 18 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies," "Regulatory Matters" and "Revenue," respectively, for more information. Duke Energy Ohio and Duke Energy Indiana sell certain of their accounts receivable and related collections through CRC, a Duke Energy consolidated VIE. Losses on collection are first absorbed by the equity of CRC and next by the subordinated retained interests held by Duke Energy Ohio, Duke Energy Kentucky and Duke Energy Indiana. See Note 17 to the Consolidated Financial Statements, "Variable Interest Entities."

The Duke Energy Registrants provide certain non-tariff services, primarily to large commercial and industrial customers in which incurred costs, including invested capital, are intended to be recovered from the individual customer and therefore are not subject to rate recovery in the event of customer default. Customer creditworthiness is assessed prior to entering into these transactions. Credit concentration related to these transactions exists for certain of these customers.

Duke Energy's Commercial Renewables segment enters into long-term agreements with certain creditworthy buyers that may not include the right to call for collateral in the event of a credit rating downgrade. Credit concentration exists to certain counterparties on these agreements, including entities that could be subject to wildfire liability. Additionally, Commercial Renewables may invest in projects for which buyers are below investment grade, although such buyers are required to post negotiated amounts of credit support. Also, power sales agreements and/or hedges of project output are generally for an initial term that does not cover the entire life of the asset. As a result, Commercial Renewables is exposed to market price risk and credit risk related to these agreements.

Duke Energy Carolinas has third-party insurance to cover certain losses related to asbestos-related injuries and damages above an aggregate self-insured retention. See Note 4 to the Consolidated Financial Statements, "Commitments and Contingencies" for information on asbestos-related injuries and damages claims.

The Duke Energy Registrants also have credit risk exposure through issuance of performance and financial guarantees, letters of credit and surety bonds on behalf of less than wholly owned entities and third parties. Where the Duke Energy Registrants have issued these guarantees, it is possible that they could be required to perform under these guarantee obligations in the event the obligor under the guarantee fails to perform. Where the Duke Energy Registrants have issued guarantees related to assets or operations that have been disposed of via sale, they attempt to secure indemnification from the buyer against all future performance obligations under the guarantees. See Note 7 to the Consolidated Financial Statements, "Guarantees and Indemnifications," for further information on guarantees issued by the Duke Energy Registrants.

Based on the Duke Energy Registrants' policies for managing credit risk, their exposures and their credit and other reserves, the Duke Energy Registrants do not currently anticipate a materially adverse effect on their consolidated financial position or results of operations as a result of nonperformance by any counterparty.

Marketable Securities Price Risk

As described further in Note 15 to the Consolidated Financial Statements, "Investments in Debt and Equity Securities," Duke Energy invests in debt and equity securities as part of various investment portfolios to fund certain obligations. The vast majority of investments in equity securities are within the NDTF and assets of the various pension and other post-retirement benefit plans.

Pension Plan Assets

Duke Energy maintains investments to facilitate funding the costs of providing non-contributory defined benefit retirement and other post-retirement benefit plans. These investments are exposed to price fluctuations in equity markets and changes in interest rates. The equity securities held in these pension plans are diversified to achieve broad market participation and reduce the impact of any single investment, sector or geographic region. Duke Energy has established asset allocation targets for its pension plan holdings, which take into consideration the investment objectives and the risk profile with respect to the trust in which the assets are held. See Note 22 to the Consolidated Financial Statements, "Employee Benefit Plans," for additional information regarding investment strategy of pension plan assets.

A significant decline in the value of plan asset holdings could require Duke Energy to increase funding of its pension plans in future periods, which could adversely affect cash flows in those periods. Additionally, a decline in the fair value of plan assets, absent additional cash contributions to the plan, could increase the amount of pension cost required to be recorded in future periods, which could adversely affect Duke Energy's results of operations in those periods.

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QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Nuclear Decommissioning Trust Funds

As required by the NRC, NCUC, PSCSC and FPSC, subsidiaries of Duke Energy maintain trust funds to fund the costs of nuclear decommissioning. As of December 31, 2020, these funds were invested primarily in domestic and international equity securities, debt securities, cash and cash equivalents and short-term investments. Per the NRC, Internal Revenue Code, NCUC, PSCSC and FPSC requirements, these funds may be used only for activities related to nuclear decommissioning. These investments are exposed to price fluctuations in equity markets and changes in interest rates. Duke Energy actively monitors its portfolios by benchmarking the performance of its investments against certain indices and by maintaining, and periodically reviewing, target allocation percentages for various asset classes.

Accounting for nuclear decommissioning recognizes that costs are recovered through retail and wholesale rates; therefore, fluctuations in investment prices do not materially affect the Consolidated Statements of Operations, as changes in the fair value of these investments are primarily deferred as regulatory assets or regulatory liabilities pursuant to Orders by the NCUC, PSCSC, FPSC and FERC. Earnings or losses of the funds will ultimately impact the amount of costs recovered through retail and wholesale rates. See Note 9 to the Consolidated Financial Statements, "Asset Retirement Obligations," for additional information regarding nuclear decommissioning costs. See Note 15 to the Consolidated Financial Statements, "Investments in Debt and Equity Securities," for additional information regarding NDTF assets.

OTHER MATTERS

Environmental Regulations

The Duke Energy Registrants are subject to federal, state and local regulations regarding air and water quality, hazardous and solid waste disposal, coal ash and other environmental matters. These regulations can be changed from time to time and result in new obligations of the Duke Energy Registrants.

On May 14, 2020, the five-year probation period following the Dan River coal ash spill ended. The court-appointed monitor confirmed in U.S. District Court for the Eastern District of North Carolina that Duke Energy met or exceeded every obligation throughout the process. Separately, in a final report to the EPA, it was noted that the company made significant enhancements to its Ethics and Compliance Program and its environmental compliance programs.

The following sections outline various proposed and recently enacted legislation and regulations that may impact the Duke Energy Registrants. Refer to Note 3 to the Consolidated Financial Statements, "Regulatory Matters," for further information regarding potential plant retirements and regulatory filings related to the Duke Energy Registrants.

Coal Combustion Residuals

In April 2015, EPA published a rule to regulate the disposal of CCR from electric utilities as solid waste. The federal regulation classifies CCR as nonhazardous waste and allows for beneficial use of CCR with some restrictions. The regulation applies to all new and existing landfills, new and existing surface impoundments receiving CCR and existing surface impoundments located at stations generating electricity (regardless of fuel source), which were no longer receiving CCR but contained liquids as of the effective date of the rule. The rule establishes requirements regarding landfill design, structural integrity design and assessment criteria for surface impoundments, groundwater monitoring, protection and remedial procedures and other operational and reporting procedures to ensure the safe disposal and management of CCR.

On July 17, 2018, EPA issued a final rule (Phase 1, Part 1) revising certain closure deadlines and groundwater protection standards in the CCR rule. The rule does not change the primary requirements for groundwater monitoring, corrective action, inspections and maintenance, and closure, and thus does not materially affect Duke Energy's coal ash basin closure plans or compliance obligations under the CCR rule. On October 22, 2018, a coalition of environmental groups filed a petition for review in the U.S. Court of Appeals for the District of Columbia (D.C. Circuit Court) challenging EPA's final Phase 1, Part 1 revisions to the CCR rule. On March 13, 2019, the D.C. Circuit Court issued an order in the Phase 1, Part 1 litigation granting EPA's motion to remand the rule without vacatur. To date, EPA has finalized two notice-and-comment rulemakings to implement the court's decision on remand. The "Part A" rule, which was promulgated on August 28, 2020, establishes an April 11, 2021 deadline to cease placement of CCR and non-CCR waste streams into unlined ash basins and initiate closure, and the "Part B" rule, which was promulgated on November 12, 2020, establishes procedures to allow facilities to request approval to operate an existing CCR surface impoundment with an alternate liner. A future rulemaking is expected to address legacy impoundments. Duke Energy does not expect these rulemakings to have a material impact in light of its progress in closing CCR units across the enterprise.

In addition to the requirements of the federal CCR rule, CCR landfills and surface impoundments will continue to be regulated by the states. Cost recovery for future expenditures will be pursued through the normal ratemaking process with federal and state utility commissions and via wholesale contracts, which permit recovery of necessary and prudently incurred costs associated with Duke Energy's regulated operations. For more information, see Notes 3 and 9 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively.

Coal Ash Management Act of 2014

AROs recorded on the Duke Energy Carolinas and Duke Energy Progress Consolidated Balance Sheets at December 31, 2020, and December 31, 2019, include the legal obligation for closure of coal ash basins and the disposal of related ash as a result of the Coal Ash Act, the EPA CCR rule and other agreements. The Coal Ash Act includes a variance procedure for compliance deadlines and other issues surrounding the management of CCR and CCR surface impoundments and prohibits cost recovery in customer rates for unlawful discharge of ash impoundment waters occurring after January 1, 2014. The Coal Ash Act leaves the decision on cost recovery determinations related to closure of ash impoundments to the normal ratemaking processes before utility regulatory commissions.

Consistent with the requirements of the Coal Ash Act, Duke Energy previously submitted comprehensive site assessments and groundwater corrective plans to NCDEQ. In addition, on December 31, 2019, Duke Energy submitted updated groundwater corrective action plans and site-specific coal ash impoundment closure plans to NCDEQ.

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OTHER MATTERS

On April 1, 2019, NCDEQ issued a closure determination requiring Duke Energy Carolinas and Duke Energy Progress to excavate all remaining coal ash impoundments at the Allen, Belews Creek, Rogers, Marshall, Mayo and Roxboro facilities in North Carolina. On April 26, 2019, Duke Energy Carolinas and Duke Energy Progress filed Petitions for Contested Case Hearings in the Office of Administrative Hearings to challenge NCDEQ's April 1 Order. On December 31, 2019, Duke Energy Carolinas and Duke Energy Progress entered into a settlement agreement with NCDEQ and certain community groups under which Duke Energy Carolinas and Duke Energy Progress agreed to excavate seven of the nine remaining coal ash basins at these sites with ash moved to on-site lined landfills, including two at Allen, one at Belews Creek, one at Mayo, one at Roxboro, and two at Rogers. At the two remaining basins at Marshall and Roxboro, uncapped basin ash will be excavated and moved to lined landfills. Those portions of the basins at Marshall and Roxboro, which were previously filled with ash and on which permitted facilities were constructed, will not be disturbed and will be closed pursuant to other state regulations.

Following NCDEQ's April 1 Order, Duke Energy estimated the incremental undiscounted cost to close the nine remaining impoundments by excavation would be approximately \$4 billion to \$5 billion, potentially increasing the total estimated costs to permanently close all ash basins in North Carolina and South Carolina to \$9.5 billion to \$10.5 billion. The settlement lowers the estimated total undiscounted cost to close the nine remaining basins by excavation by approximately \$1.5 billion as compared to Duke Energy's original estimate that followed the order. As a result, the estimated total cost to permanently close all ash basins in North Carolina and South Carolina is approximately \$8 billion to \$9 billion of which approximately \$2.8 billion has been spent through 2020. The majority of the remaining spend is expected to occur over the next 15 to 20 years.

Duke Energy has completed excavation of all coal ash at the Riverbend, Dan River and Sutton plants

For further information on ash basins and recovery, see Notes 3 and 9 to the Consolidated Financial Statements, "Regulatory Matters" and "Asset Retirement Obligations," respectively.

Other Environmental Regulations

The Duke Energy Registrants are also subject to various federal, state and local laws regarding air and water quality, hazardous and solid waste disposal and other environmental matters, including the following:

- CWA
- Steam Effluent Limitation Guidelines
- Cross-State Air Pollution Rule

Duke Energy continues to comply with enacted environmental statutes and regulations even as certain of these regulations are in various stages of clarification, revision or legal challenge. The Duke Energy Registrants cannot predict the outcome of these matters.

Section 126 Petitions

On November 16, 2016, the state of Maryland filed a petition with EPA under Section 126 of the Clean Air Act alleging that 19 power plants, including two plants (three units) that Duke Energy Registrants own and operate, contribute to violations of EPA's National Ambient Air Quality Standards (NAAQS) for ozone in the state of Maryland. On March 12, 2018, the state of New York filed a petition with EPA, also under Section 126 of the Clean Air Act, alleging that over 60 power plants, including five that Duke Energy Registrants own and operate, contribute to violations of EPA's ozone NAAQS in the state of New York. Both Maryland and New York sought EPA orders requiring the states in which the named power plants operate impose more stringent nitrogen oxide emission limitations on the plants. On October 5, 2018, EPA denied the Maryland petition. That same day, Maryland appealed EPA's denial. On October 18, 2019, EPA denied the New York petition, and New York appealed that decision on October 29, 2019. On May 19, 2020, the U.S. Court of Appeals for the D.C. Circuit issued its decision, finding, with one exception, that EPA reasonably denied the Maryland petition. The court remanded one issue to EPA regarding target sources lacking catalytic controls. All of the Duke Energy units targeted have selective catalytic reduction, so the decision is favorable for these units.

A different panel of the same court heard oral argument in New York's appeal of EPA's denial of its Section 126 Petition on May 7, 2020, and on July 14, 2020, the panel issued its decision remanding the Petition to EPA for further review. The Duke Energy Registrants cannot predict the outcome of this matter.

North Carolina Clean Energy Plan (NCCEP)

On October 29, 2018, Governor Roy Cooper signed an executive order calling for a 40% reduction in statewide greenhouse gas emissions by 2025. The order tasked the NCDEQ with developing a clean energy plan for North Carolina. In October 2019, the NCDEQ published its plan, which includes the reduction of electric power sector greenhouse gas emissions by 70% below 2005 levels by 2030 and attainment of carbon neutrality by 2050, fostering long-term energy affordability and price stability for North Carolina's residents and businesses by modernizing regulatory and planning processes, and acceleration of clean energy innovation to create economic opportunities for both rural and urban areas. Duke Energy Carolinas and Duke Energy Progress are significant stakeholders in this process. The magnitude and timing of investment in response to the NCCEP will depend on the speed of adoption and consensus developed by other stakeholders on how best to successfully transition to this clean energy future while establishing a regulatory model that incentivizes business decisions that benefit both the utilities and the public. The Duke Energy Registrants cannot predict the outcome of this matter.

Global Climate Change

On September 17, 2019, Duke Energy announced an updated climate strategy with new goals of at least 50% reduction in carbon emissions from electric generation by 2030 and net-zero carbon emissions from electric generation by 2050. On October 9, 2020, Duke Energy announced a new goal to achieve net-zero methane emissions from its natural gas distribution system by 2030. Timelines and initiatives, as well as implementation of new technologies, will vary in each state in which the company operates and will involve collaboration with regulators, customers and other stakeholders.

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OTHER MATTERS

The Duke Energy Registrants' GHG emissions consist primarily of CO₂ and result primarily from operating a fleet of coal-fired and natural gas-fired power plants. Future levels of CO₂ emissions will be influenced by variables that include economic conditions that affect electricity demand, fuel prices, market prices, compliance with new or existing regulations and the technologies deployed to generate the electricity necessary to meet customer demand.

The Duke Energy Registrants have taken actions that have resulted in a reduction of CO₂ emissions over time. Actions have included the retirement of 51 coal-fired electric generating units with a combined generating capacity of 6,539 MW. Much of that capacity has been replaced with state-of-the-art highly efficient natural gas-fired generation that produces far fewer CO₂ emissions per unit of electricity generated. Duke Energy also has made investments to expand its portfolio of wind and solar projects, increase EE offerings and ensure continued operations of its zero-CO₂ emissions hydropower and nuclear plants. These efforts have diversified its system and significantly reduced CO₂ emissions. Between 2005 and 2020, the Duke Energy Registrants have collectively lowered the CO₂ emissions from their electricity generation by more than 40%, which potentially lowers the exposure to any future mandatory CO₂ emission reduction requirements or carbon tax, whether as a result of federal legislation, EPA regulation, state regulation or other as yet unknown emission reduction requirement. Duke Energy will continue to explore the use of currently available and commercially demonstrated technology to reduce CO₂ emissions, including EE, wind, solar, storage, carbon capture, utilization and sequestration, the use of hydrogen and other low-carbon fuels and advanced nuclear. Duke Energy will adjust to evolving and innovative technologies in a way that balances the reliability and affordability that meet regulatory requirements and customer demands. Under any future scenario involving mandatory CO₂ limitations, the Duke Energy Registrants would plan to seek recovery of their compliance costs through appropriate regulatory mechanisms.

The Duke Energy Registrants recognize that scientists associate severe weather events with increasing levels of GHGs in the atmosphere and forecast the possibility these weather events could have a material impact on future results of operations should they occur more frequently and with greater severity. However, the uncertain nature of potential changes in extreme weather events (such as increased frequency, duration and severity), the long period of time over which any potential changes might take place and the inability to predict potential changes with any degree of accuracy, make estimating with any certainty any potential future financial risk to the Duke Energy Registrants' operations difficult.

The Duke Energy Registrants annually, biennially or triennially prepare lengthy, forward-looking IRPs. These detailed, highly technical plans are based on the company's thorough analysis of numerous factors that can impact the cost of producing and delivering electricity that influence long-term resource planning decisions. The IRP process helps to evaluate a range of options, taking into account stakeholder input as well as forecasts of future electricity demand, fuel prices, transmission improvements, new generating capacity, integration of renewables, energy storage, EE and demand response initiatives. The IRP process also helps evaluate potential environmental and regulatory scenarios to better mitigate policy and economic risks. The IRPs we file with regulators look out 10 to 20 years depending on the jurisdiction.

For a number of years, the Duke Energy Registrants have included a price on CO₂ emissions in their IRP planning process to account for the potential regulation of CO₂ emissions. Incorporating a price on CO₂ emissions in the IRPs allows for the evaluation of existing and future resource needs against potential climate change policy risk in the absence of policy certainty. One of the challenges with using a CO₂ price, especially in the absence of a clear and certain policy, is determining the appropriate price to use. To address this uncertainty and ensure the company remains agile, the Duke Energy Registrants typically use a range of potential CO₂ prices to reflect a range of potential policy outcomes.

The Duke Energy Registrants routinely take steps to reduce the potential impact of severe weather events on their electric transmission and distribution systems and natural gas facilities. The steps include modernizing the electric grid through smart meters, storm hardening, self-healing and targeted undergrounding and applying lessons learned from previous storms to restoration efforts. The Duke Energy Registrants' electric generating facilities and natural gas facilities are designed to withstand extreme weather events without significant damage. The Duke Energy Registrants maintain inventories of coal, oil and liquefied natural gas to mitigate the effects of any potential short-term disruption in fuel supply so they can continue to provide customers with an uninterrupted supply of electricity and/or natural gas.

State Legislation

In 2017, the North Carolina General Assembly passed House Bill 589, and it was subsequently signed into law by the governor. The law includes, among other things, overall reform of the application of PURPA for new solar projects in the state, a requirement for the utility to procure renewable energy through a competitive bidding process administered by an independent third party and recovery of costs related to the competitive bidding process through a competitive procurement rider. The process used was approved by the NCUC to select projects that would deliver the lowest cost of renewable energy for customers.

In accordance with the provisions of House Bill 589, Duke Energy estimates the total competitive procurement will be approximately 1,185 to 1,385 MW. Duke Energy will own or purchase at least 1,185 MW of energy from renewable energy projects under the North Carolina's CPRE program. Two tranches of the CPRE process have been completed with contracts executed for winning proposals. Five Duke Energy projects, totaling about 190 MW, were selected during the first tranche and none were selected during the second tranche. Two of the Duke Energy winning projects achieved commercial operation in December 2020 and the remaining three will be online by the third quarter 2021. The need for a third tranche of CPRE will be determined prior to November 2021.

In various states, legislation is being considered to allow third-party sales of electricity. Deregulation or restructuring in the electric industry may result in increased competition and unrecovered costs. The Duke Energy Registrants cannot predict the outcome of these initiatives.

New Accounting Standards

See Note 1 to the Consolidated Financial Statements, "Summary of Significant Accounting Policies," for a discussion of the impact of new accounting standards.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

See "Management's Discussion and Analysis of Results of Operations and Financial Condition – Quantitative and Qualitative Disclosures About Market Risk."

FINANCIAL STATEMENTS

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

Duke Energy

Report of Independent Registered Public Accounting Firm.....	77
Consolidated Statements of Operations.....	79
Consolidated Statements of Comprehensive Income.....	80
Consolidated Balance Sheets.....	81
Consolidated Statements of Cash Flows.....	82
Consolidated Statements of Changes in Equity.....	83

Duke Energy Carolinas

Report of Independent Registered Public Accounting Firm.....	84
Consolidated Statements of Operations and Comprehensive Income.....	86
Consolidated Balance Sheets.....	87
Consolidated Statements of Cash Flows.....	88
Consolidated Statements of Changes in Equity.....	89

Progress Energy

Report of Independent Registered Public Accounting Firm.....	90
Consolidated Statements of Operations and Comprehensive Income.....	92
Consolidated Balance Sheets.....	93
Consolidated Statements of Cash Flows.....	94
Consolidated Statements of Changes in Equity.....	95

Duke Energy Progress

Report of Independent Registered Public Accounting Firm.....	96
Consolidated Statements of Operations and Comprehensive Income.....	98
Consolidated Balance Sheets.....	99
Consolidated Statements of Cash Flows.....	100
Consolidated Statements of Changes in Equity.....	101

Duke Energy Florida

Report of Independent Registered Public Accounting Firm.....	102
Consolidated Statements of Operations and Comprehensive Income.....	104
Consolidated Balance Sheets.....	105
Consolidated Statements of Cash Flows.....	106
Consolidated Statements of Changes in Equity.....	107

Duke Energy Ohio

Report of Independent Registered Public Accounting Firm.....	108
Consolidated Statements of Operations and Comprehensive Income.....	110
Consolidated Balance Sheets.....	111
Consolidated Statements of Cash Flows.....	112
Consolidated Statements of Changes in Equity.....	113

Duke Energy Indiana

Report of Independent Registered Public Accounting Firm.....	114
Consolidated Statements of Operations and Comprehensive Income.....	116
Consolidated Balance Sheets.....	117
Consolidated Statements of Cash Flows.....	118
Consolidated Statements of Changes in Equity.....	119

Piedmont

Report of Independent Registered Public Accounting Firm.....	120
Consolidated Statements of Operations and Comprehensive Income.....	122
Consolidated Balance Sheets.....	123
Consolidated Statements of Cash Flows.....	124
Consolidated Statements of Changes in Equity.....	125

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SEP 13 2021

FINANCIAL STATEMENTS

Combined Notes to Consolidated Financial Statements

Note 1 – Summary of Significant Accounting Policies	<u>126</u>
Note 2 – Business Segments	<u>135</u>
Note 3 – Regulatory Matters	<u>139</u>
Note 4 – Commitments and Contingencies	<u>163</u>
Note 5 – Leases	<u>168</u>
Note 6 – Debt and Credit Facilities	<u>173</u>
Note 7 – Guarantees and Indemnifications	<u>179</u>
Note 8 – Joint Ownership of Generating and Transmission Facilities	<u>180</u>
Note 9 – Asset Retirement Obligations	<u>180</u>
Note 10 – Property, Plant and Equipment	<u>183</u>
Note 11 – Goodwill and Intangible Assets	<u>185</u>
Note 12 – Investments in Unconsolidated Affiliates	<u>186</u>
Note 13 – Related Party Transactions	<u>189</u>
Note 14 – Derivatives and Hedging	<u>190</u>
Note 15 – Investments in Debt and Equity Securities	<u>195</u>
Note 16 – Fair Value Measurements	<u>201</u>
Note 17 – Variable Interest Entities	<u>207</u>
Note 18 – Revenue	<u>211</u>
Note 19 – Stockholders' Equity	<u>217</u>
Note 20 – Severance	<u>219</u>
Note 21 – Stock-Based Compensation	<u>219</u>
Note 22 – Employee Benefit Plans	<u>221</u>
Note 23 – Income Taxes	<u>235</u>
Note 24 – Other Income and Expenses, Net	<u>242</u>
Note 25 – Subsequent Events	<u>242</u>

REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholders and the Board of Directors of Duke Energy Corporation

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Corporation and subsidiaries (the "Company") as of December 31, 2020 and 2019, the related consolidated statements of operations, comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2020, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2020 and 2019, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2020, in conformity with accounting principles generally accepted in the United States of America.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2020, based on criteria established in Internal Control — Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated February 25, 2021, expressed an unqualified opinion on the Company's internal control over financial reporting.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical Audit Matter

The critical audit matter communicated below is a matter arising from the current-period audit of the financial statements that was communicated or required to be communicated to the audit committee and that (1) relates to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

Regulatory Matters — Impact of Rate Regulation on the Financial Statements — Refer to Notes 1, 3, and 9 to the financial statements.

Critical Audit Matter Description

The Company is subject to regulation by federal and state utility regulatory agencies (the "Commissions"), which have jurisdiction with respect to the rates of the Company's electric and natural gas distribution companies. Management has determined it meets the criteria for the application of regulated operations accounting in preparing its financial statements under accounting principles generally accepted in the United States of America. Significant judgment can be required to determine if otherwise recognizable incurred costs qualify to be presented as a regulatory asset and deferred because such costs are probable of future recovery in customer rates. As of December 31, 2020, the Company has approximately \$14 billion recorded as regulatory assets.

The Company's rates are subject to regulatory rate-setting processes and annual earnings oversight. Rates charged to customers are determined and approved in regulatory proceedings based on an analysis of the Company's costs to provide utility service and a return on the Company's investment in the utility business. Regulatory decisions can have an impact on the recovery of costs, the rate of return earned on investment and the timing and amount of assets to be recovered by rates. The regulation of rates is premised on the full recovery of prudently incurred costs and a reasonable rate of return on invested capital. As discussed in Note 3, regulatory proceedings in recent years in North Carolina and South Carolina have focused on the recoverability of asset retirement obligations specific to coal ash. As a result, assessing the potential outcomes of future regulatory orders in North Carolina and South Carolina requires significant management judgment.

We identified the impact of rate regulation as a critical audit matter due to the significant judgments made by management, including assumptions regarding the outcome of future decisions by the Commissions; to support its assertions on the likelihood of future recovery for deferred costs. As such, auditing these judgments required specialized knowledge of accounting for rate regulation due to its inherent complexities, a high degree of auditor judgment, and an increased extent of effort.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to the recovery of regulatory assets included the following, among others:

- We tested the effectiveness of management's controls over the evaluation of the likelihood of the recovery in future rates of regulatory assets and the monitoring and evaluation of regulatory developments that may affect the likelihood of recovering costs in future rates.

REPORTS

- We evaluated the Company's disclosures related to the impacts of rate regulation, including the balances recorded and regulatory developments.
- We read relevant regulatory orders issued by the Commissions, regulatory statutes, interpretations, procedural memorandums, filings made by interveners, and other publicly available information to assess the likelihood of recovery in future rates based on precedents of the Commissions' treatment of similar costs under similar circumstances. We evaluated the external information and compared it to management's recorded regulatory asset balances for completeness.
- For regulatory matters in process, we inspected the Company's and intervenors' filings with the Commissions, that may impact the Company's future rates, for any evidence that might contradict management's assertions.
- We evaluated the reasonableness of management's judgments regarding the recoverability of regulatory asset balances by performing the following:
 - We inquired of management regarding changes in regulatory orders and regulatory asset balances during the year.
 - We evaluated the reasonableness of such changes based on our knowledge of commission-approved amortization, expected incurred costs, and recently approved regulatory orders, as applicable.
 - We utilized trend analyses to evaluate the historical consistency of regulatory asset balances.
 - We compared the recorded regulatory asset balance to an independently developed expectation of the corresponding balance.
- We obtained an analysis from management and letters from internal legal counsel for asset retirement obligations specific to coal ash costs, regarding probability of recovery for deferred costs not yet addressed in a regulatory order to assess management's assertion that amounts are probable of recovery.
- We obtained representation from management asserting that regulatory assets recorded on the financial statements are probable of recovery.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 25, 2021

We have served as the Company's auditor since 1947.

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FINANCIAL STATEMENTS

**DUKE ENERGY CORPORATION
CONSOLIDATED STATEMENTS OF OPERATIONS**

(in millions, except per share amounts)	Years Ended December 31,		
	2020	2019	2018
Operating Revenues			
Regulated electric	\$ 21,461	\$ 22,615	\$ 22,097
Regulated natural gas	1,642	1,759	1,773
Nonregulated electric and other	765	705	651
Total operating revenues	23,868	25,079	24,521
Operating Expenses			
Fuel used in electric generation and purchased power	6,051	6,826	6,831
Cost of natural gas	460	627	697
Operation, maintenance and other	5,788	6,066	6,463
Depreciation and amortization	4,705	4,548	4,074
Property and other taxes	1,337	1,307	1,280
Impairment charges	984	(8)	402
Total operating expenses	19,325	19,366	19,747
Gains (Losses) on Sales of Other Assets and Other, net	10	(4)	(89)
Operating Income	4,553	5,709	4,685
Other Income and Expenses			
Equity in (losses) earnings of unconsolidated affiliates	(2,005)	162	83
Other income and expenses, net	453	430	399
Total other income and expenses	(1,552)	592	482
Interest Expense	2,162	2,204	2,094
Income From Continuing Operations Before Income Taxes	839	4,097	3,073
Income Tax (Benefit) Expense From Continuing Operations	(236)	519	448
Income From Continuing Operations	1,075	3,578	2,625
Income (Loss) From Discontinued Operations, net of tax	7	(7)	19
Net Income	1,082	3,571	2,644
Add: Net Loss Attributable to Noncontrolling Interests	295	177	22
Net Income Attributable to Duke Energy Corporation	1,377	3,748	2,666
Less: Preferred Dividends	107	41	—
Net Income Available to Duke Energy Corporation Common Stockholders	\$ 1,270	\$ 3,707	\$ 2,666
Earnings Per Share – Basic and Diluted			
Income from continuing operations available to Duke Energy Corporation common stockholders			
Basic and Diluted	\$ 1.71	\$ 5.07	\$ 3.73
Income (Loss) from discontinued operations attributable to Duke Energy Corporation common stockholders			
Basic and Diluted	\$ 0.01	\$ (0.01)	\$ 0.03
Net income available to Duke Energy Corporation common stockholders			
Basic and Diluted	\$ 1.72	\$ 5.06	\$ 3.76
Weighted average shares outstanding			
Basic	737	729	708
Diluted	738	729	708

See Notes to Consolidated Financial Statements

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SEP 13 2021

FINANCIAL STATEMENTS

**DUKE ENERGY CORPORATION
CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME**

(in millions)	Years Ended December 31,		
	2020	2019	2018
Net Income	\$ 1,082	\$ 3,571	\$ 2,644
Other Comprehensive (Loss) Income, net of tax^(a)			
Pension and OPEB adjustments	6	9	(6)
Net unrealized losses on cash flow hedges	(138)	(47)	(10)
Reclassification into earnings from cash flow hedges	11	6	6
Unrealized gains (losses) on available-for-sale securities	3	8	(3)
Other Comprehensive Loss, net of tax	(118)	(24)	(13)
Comprehensive Income	964	3,547	2,631
Add: Comprehensive Loss Attributable to Noncontrolling Interests	306	177	22
Comprehensive Income Attributable to Duke Energy Corporation	1,270	3,724	2,653
Less: Preferred Dividends	107	41	—
Comprehensive Income Available to Duke Energy Corporation Common Stockholders	\$ 1,163	\$ 3,683	\$ 2,653

- (a) Net of income tax impacts of approximately \$35 million for the year ended December 31, 2020. Tax impacts are immaterial for other periods presented.

See Notes to Consolidated Financial Statements

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SEP 13 2021

FINANCIAL STATEMENTS

DUKE ENERGY CORPORATION
CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2020	2019
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 259	\$ 311
Receivables (net of allowance for doubtful accounts of \$29 at 2020 and \$22 at 2019)	1,009	1,066
Receivables of VIEs (net of allowance for doubtful accounts of \$117 at 2020 and \$54 at 2019)	2,144	1,994
Inventory	3,167	3,232
Regulatory assets (includes \$53 at 2020 and \$52 at 2019 related to VIEs)	1,641	1,796
Other (includes \$296 at 2020 and \$242 at 2019 related to VIEs)	462	764
Total current assets	8,682	9,163
Property, Plant and Equipment		
Cost	155,580	147,654
Accumulated depreciation and amortization	(48,827)	(45,773)
Generation facilities to be retired, net	29	246
Net property, plant and equipment	106,782	102,127
Other Noncurrent Assets		
Goodwill	19,303	19,303
Regulatory assets (includes \$937 at 2020 and \$989 at 2019 related to VIEs)	12,421	13,222
Nuclear decommissioning trust funds	9,114	8,140
Operating lease right-of-use assets, net	1,524	1,658
Investments in equity method unconsolidated affiliates	961	1,936
Other (includes \$81 at 2020 and \$110 at 2019 related to VIEs)	3,601	3,289
Total other noncurrent assets	46,924	47,548
Total Assets	\$ 162,388	\$ 158,838
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 3,144	\$ 3,487
Notes payable and commercial paper	2,873	3,135
Taxes accrued	482	392
Interest accrued	537	565
Current maturities of long-term debt (includes \$472 at 2020 and \$216 at 2019 related to VIEs)	4,238	3,141
Asset retirement obligations	718	881
Regulatory liabilities	1,377	784
Other	2,936	2,367
Total current liabilities	16,305	14,752
Long-Term Debt (includes \$3,535 at 2020 and \$3,997 at 2019 related to VIEs)	55,625	54,985
Other Noncurrent Liabilities		
Deferred income taxes	9,244	8,878
Asset retirement obligations	12,286	12,437
Regulatory liabilities	15,029	15,264
Operating lease liabilities	1,340	1,432
Accrued pension and other post-retirement benefit costs	969	934
Investment tax credits	687	624
Other (includes \$316 at 2020 and \$228 at 2019 related to VIEs)	1,719	1,581
Total other noncurrent liabilities	41,274	41,150
Commitments and Contingencies		
Equity		
Preferred stock, Series A, \$0.001 par value, 40 million depositary shares authorized and outstanding at 2020 and 2019	973	973
Preferred stock, Series B, \$0.001 par value, 1 million shares authorized and outstanding at 2020 and 2019	989	989
Common stock, \$0.001 par value, 2 billion shares authorized; 769 million shares outstanding at 2020 and 733 million shares outstanding at 2019	1	1
Additional paid-in capital	43,767	40,881
Retained earnings	2,471	4,108
Accumulated other comprehensive loss	(237)	(130)
Total Duke Energy Corporation stockholders' equity	47,964	46,822
Noncontrolling interests	1,220	1,129
Total equity	49,184	47,951
Total Liabilities and Equity	\$ 162,388	\$ 158,838

See Notes to Consolidated Financial Statements

DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2020	2019	2018
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 1,082	\$ 3,571	\$ 2,644
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion (including amortization of nuclear fuel)	5,486	5,176	4,696
Equity in losses (earnings) of unconsolidated affiliates	2,005	(162)	(83)
Equity component of AFUDC	(154)	(139)	(221)
(Gains) Losses on sales of other assets	(10)	4	88
Impairment charges	984	(8)	402
Deferred income taxes	54	806	1,079
Payments for asset retirement obligations	(610)	(746)	(533)
Payment for the disposal of other assets	—	—	(105)
Provision for rate refunds	(22)	60	425
Refund of AMT credit carryforwards	572	573	—
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	63	(48)	22
Receivables	(56)	78	(345)
Inventory	66	(122)	156
Other current assets	205	10	(721)
Increase (decrease) in			
Accounts payable	(21)	(164)	479
Taxes accrued	117	(224)	23
Other current liabilities	(65)	172	270
Other assets	(398)	(559)	(1,062)
Other liabilities	(442)	(69)	(28)
Net cash provided by operating activities	8,856	8,209	7,186
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(9,907)	(11,122)	(9,389)
Contributions to equity method investments	(370)	(324)	(416)
Return of investment capital	133	11	137
Purchases of debt and equity securities	(8,011)	(3,348)	(3,762)
Proceeds from sales and maturities of debt and equity securities	7,949	3,343	3,747
Other	(398)	(517)	(377)
Net cash used in investing activities	(10,604)	(11,957)	(10,060)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the:			
Issuance of long-term debt	6,330	7,091	5,299
Issuance of preferred stock	—	1,962	—
Issuance of common stock	2,745	384	1,838
Payments for the redemption of long-term debt	(4,506)	(3,476)	(2,906)
Proceeds from the issuance of short-term debt with original maturities greater than 90 days	3,009	397	472
Payments for the redemption of short-term debt with original maturities greater than 90 days	(2,147)	(479)	(282)
Notes payable and commercial paper	(1,181)	(298)	981
Contributions from noncontrolling interests	426	843	41
Dividends paid	(2,812)	(2,668)	(2,471)
Other	(133)	(26)	(12)
Net cash provided by financing activities	1,731	3,730	2,960
Net (decrease) increase in cash, cash equivalents, and restricted cash	(17)	(18)	86
Cash, cash equivalents, and restricted cash at beginning of period	573	591	505
Cash, cash equivalents, and restricted cash at end of period	\$ 556	\$ 573	\$ 591
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 2,186	\$ 2,195	\$ 2,086
Cash received from income taxes	(585)	(651)	(266)
Significant non-cash transactions:			
Accrued capital expenditures	1,116	1,356	1,112
Non-cash dividends	110	108	107

See Notes to Consolidated Financial Statements

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DUKE ENERGY CORPORATION

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Duke Energy Corporation Stockholders' Accumulated Other Comprehensive Income (Loss)										
	Preferred Stock	Common Stock Shares	Common Stock	Additional Paid-in Capital	Retained Earnings	Net Losses on Cash Flow Hedges	Net Unrealized Gains (Losses) on Available-for-Sale Securities	Pension and OPEB Adjustments	Total Duke Energy Corporation Stockholders' Equity	Noncontrolling Interests	Total Equity
Balance at December 31, 2017	\$ —	700	\$ 1	\$ 38,792	\$ 3,013	\$ (10)	\$ 12	\$ (69)	\$ 41,739	\$ (2)	\$ 41,737
Net income	—	—	—	—	2,666	—	—	—	2,666	(22)	2,644
Other comprehensive loss	—	—	—	—	—	(4)	(3)	(6)	(13)	—	(13)
Common stock issuances, including dividend reinvestment and employee benefits	—	27	—	2,003	—	—	—	—	2,003	—	2,003
Common stock dividends	—	—	—	—	(2,578)	—	—	—	(2,578)	—	(2,578)
Distributions to noncontrolling interest in subsidiaries	—	—	—	—	—	—	—	—	—	(1)	(1)
Other ^(a)	—	—	—	—	12	—	(12)	—	—	42	42
Balance at December 31, 2018	\$ —	727	\$ 1	\$ 40,795	\$ 3,113	\$ (14)	\$ (3)	\$ (75)	\$ 43,817	\$ 17	\$ 43,834
Net income	—	—	—	—	3,707	—	—	—	3,707	(177)	3,530
Other comprehensive (loss) income	—	—	—	—	—	(41)	8	9	(24)	—	(24)
Preferred stock, Series A, issuances, net of issuance costs ^(b)	973	—	—	—	—	—	—	—	973	—	973
Preferred stock, Series B, issuances, net of issuance costs ^(b)	989	—	—	—	—	—	—	—	989	—	989
Common stock issuances, including dividend reinvestment and employee benefits	—	6	—	552	—	—	—	—	552	—	552
Common stock dividends	—	—	—	—	(2,735)	—	—	—	(2,735)	—	(2,735)
Sale of noncontrolling interest ^(c)	—	—	—	(466)	—	10	—	—	(456)	863	407
Contribution from noncontrolling interest ^(f)	—	—	—	—	—	—	—	—	—	428	428
Distributions to noncontrolling interest in subsidiaries	—	—	—	—	—	—	—	—	—	(4)	(4)
Other ^(d)	—	—	—	—	23	(6)	(2)	(16)	(1)	2	1
Balance at December 31, 2019	\$ 1,962	733	\$ 1	\$ 40,881	\$ 4,108	\$ (51)	\$ 3	\$ (82)	\$ 46,822	\$ 1,129	\$ 47,951
Net income	—	—	—	—	1,270	—	—	—	1,270	(295)	975
Other comprehensive (loss) income	—	—	—	—	—	(116)	3	6	(107)	(11)	(118)
Common stock issuances, including dividend reinvestment and employee benefits	—	36	—	2,902	—	—	—	—	2,902	—	2,902
Common stock dividends	—	—	—	—	(2,815)	—	—	—	(2,815)	—	(2,815)
Contribution from noncontrolling interest, net of transaction costs ^(f)	—	—	—	(17)	—	—	—	—	(17)	426	409
Distributions to noncontrolling interests in subsidiaries	—	—	—	—	—	—	—	—	—	(30)	(30)
Other ^(e)	—	—	—	1	(92)	—	—	—	(91)	1	(90)
Balance at December 31, 2020	\$ 1,962	769	\$ 1	\$ 43,767	\$ 2,471	\$ (167)	\$ 6	\$ (76)	\$ 47,964	\$ 1,220	\$ 49,184

- (a) Amounts in Retained Earnings and AOCI represent a cumulative-effect adjustment due to implementation of a new accounting standard related to Financial Instruments Classification and Measurement. See Note 1 for more information. Amount in Noncontrolling Interests primarily relates to tax equity financing activity in the Commercial Renewables segment.
- (b) Duke Energy issued 40 million depository shares of preferred stock, Series A, in the first quarter of 2019 and 1 million shares of preferred stock, Series B, in the third quarter of 2019.
- (c) See Note 1 for additional discussion of the transaction.
- (d) Amounts in Retained Earnings and AOCI primarily represent impacts to accumulated other comprehensive income due to implementation of a new accounting standard related to Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income.
- (e) Amounts in Retained earnings primarily represent impacts due to implementation of a new accounting standard related to Current Estimated Credit Losses. See Note 1 for additional discussion.
- (f) Relates to tax equity financing activity in the Commercial Renewables segment.

See Notes to Consolidated Financial Statements

REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of Directors of Duke Energy Carolinas, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Carolinas, LLC and subsidiaries (the "Company") as of December 31, 2020 and 2019, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2020, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2020 and 2019, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2020, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical Audit Matter

The critical audit matter communicated below is a matter arising from the current-period audit of the financial statements that was communicated or required to be communicated to the audit committee and that (1) relates to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

Regulatory Matters — Impact of Rate Regulation on the Financial Statements — Refer to Notes 1, 3, and 9 to the financial statements.

Critical Audit Matter Description

The Company is subject to rate regulation by the North Carolina Utilities Commission and by the South Carolina Public Service Commission (collectively the "Commissions"), which have jurisdiction with respect to the electric rates of the Company. Management has determined it meets the criteria for the application of regulated operations accounting in preparing its financial statements under accounting principles generally accepted in the United States of America. Significant judgment can be required to determine if otherwise recognizable incurred costs qualify to be presented as a regulatory asset and deferred because such costs are probable of future recovery in customer rates. As of December 31, 2020, the Company has approximately \$3.5 billion recorded as regulatory assets.

The Company's rates are subject to regulatory rate-setting processes and annual earnings oversight. Rates charged to customers are determined and approved in regulatory proceedings based on an analysis of the Company's costs to provide utility service and a return on the Company's investment in the utility business. Regulatory decisions can have an impact on the recovery of costs, the rate of return earned on investment and the timing and amount of assets to be recovered by rates. The regulation of rates is premised on the full recovery of prudently incurred costs and a reasonable rate of return on invested capital. As discussed in Note 3, regulatory proceedings in recent years in North Carolina and South Carolina have focused on the recoverability of asset retirement obligations specific to coal ash. As a result, assessing the potential outcomes of future regulatory orders in North Carolina and South Carolina requires significant management judgment.

We identified the impact of rate regulation as a critical audit matter due to the significant judgments made by management, including assumptions regarding the outcome of future decisions by the Commissions; to support its assertions on the likelihood of future recovery for deferred costs. As such, auditing these judgments required specialized knowledge of accounting for rate regulation due to its inherent complexities, a high degree of auditor judgment, and an increased extent of effort.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to the recovery of regulatory assets included the following, among others:

- We tested the effectiveness of management's controls over the evaluation of the likelihood of the recovery in future rates of regulatory assets and the monitoring and evaluation of regulatory developments that may affect the likelihood of recovering costs in future rates.
- We evaluated the Company's disclosures related to the impacts of rate regulation, including the balances recorded and regulatory developments.

REPORTS

- We read relevant regulatory orders issued by the Commissions, regulatory statutes, interpretations, procedural memorandums, filings made by interveners, and other publicly available information to assess the likelihood of recovery in future rates based on precedents of the Commissions' treatment of similar costs under similar circumstances. We evaluated the external information and compared it to management's recorded regulatory asset balances for completeness.
- For regulatory matters in process, we inspected the Company's and intervenors' filings with the Commissions, that may impact the Company's future rates, for any evidence that might contradict management's assertions.
- We evaluated the reasonableness of management's judgments regarding the recoverability of regulatory asset balances by performing the following:
 - We inquired of management regarding changes in regulatory orders and regulatory asset balances during the year.
 - We evaluated the reasonableness of such changes based on our knowledge of commission-approved amortization, expected incurred costs, and recently approved regulatory orders, as applicable.
 - We utilized trend analyses to evaluate the historical consistency of regulatory asset balances.
 - We compared the recorded regulatory asset balance to an independently developed expectation of the corresponding balance.
- We obtained an analysis from management and letters from internal legal counsel for asset retirement obligations specific to coal ash costs, regarding probability of recovery for deferred costs not yet addressed in a regulatory order to assess management's assertion that amounts are probable of recovery.
- We obtained representation from management asserting that regulatory assets recorded on the financial statements are probable of recovery.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 25, 2021

We have served as the Company's auditor since 1947.

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FINANCIAL STATEMENTS

**DUKE ENERGY CAROLINAS, LLC
CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME**

(in millions)	Years Ended December 31,		
	2020	2019	2018
Operating Revenues	\$ 7,015	\$ 7,395	\$ 7,300
Operating Expenses			
Fuel used in electric generation and purchased power	1,682	1,804	1,821
Operation, maintenance and other	1,743	1,868	2,130
Depreciation and amortization	1,462	1,388	1,201
Property and other taxes	299	292	295
Impairment charges	476	17	192
Total operating expenses	5,662	5,369	5,639
Gains (Losses) on Sales of Other Assets and Other, net	1	—	(1)
Operating Income	1,354	2,026	1,660
Other Income and Expenses, net	177	151	153
Interest Expense	487	463	439
Income Before Income Taxes	1,044	1,714	1,374
Income Tax Expense	88	311	303
Net Income	\$ 956	\$ 1,403	\$ 1,071
Other Comprehensive Income, net of tax			
Reclassification into earnings from cash flow hedges	—	—	1
Other Comprehensive Income, net of tax	—	—	1
Comprehensive Income	\$ 956	\$ 1,403	\$ 1,072

See Notes to Consolidated Financial Statements

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SEP 13 2021

FINANCIAL STATEMENTS

**DUKE ENERGY CAROLINAS, LLC
CONSOLIDATED BALANCE SHEETS**

(in millions)	December 31,	
	2020	2019
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 21	\$ 18
Receivables (net of allowance for doubtful accounts of \$1 at 2020 and \$3 at 2019)	247	324
Receivables of VIEs (net of allowance for doubtful accounts of \$22 at 2020 and \$7 at 2019)	696	642
Receivables from affiliated companies	124	114
Inventory	1,010	996
Regulatory assets	473	550
Other	20	21
Total current assets	2,591	2,665
Property, Plant and Equipment		
Cost	50,640	48,922
Accumulated depreciation and amortization	(17,453)	(16,525)
Net property, plant and equipment	33,187	32,397
Other Noncurrent Assets		
Regulatory assets	2,996	3,360
Nuclear decommissioning trust funds	4,977	4,359
Operating lease right-of-use assets, net	110	123
Other	1,187	1,149
Total other noncurrent assets	9,270	8,991
Total Assets	\$ 45,048	\$ 44,053
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 1,000	\$ 954
Accounts payable to affiliated companies	199	210
Notes payable to affiliated companies	506	29
Taxes accrued	76	46
Interest accrued	117	115
Current maturities of long-term debt	506	458
Asset retirement obligations	264	206
Regulatory liabilities	473	255
Other	546	611
Total current liabilities	3,687	2,884
Long-Term Debt	11,412	11,142
Long-Term Debt Payable to Affiliated Companies	300	300
Other Noncurrent Liabilities		
Deferred income taxes	3,842	3,921
Asset retirement obligations	5,086	5,528
Regulatory liabilities	6,535	6,423
Operating lease liabilities	97	102
Accrued pension and other post-retirement benefit costs	73	84
Investment tax credits	236	231
Other	626	627
Total other noncurrent liabilities	16,495	16,916
Commitments and Contingencies		
Equity		
Member's equity	13,161	12,818
Accumulated other comprehensive loss	(7)	(7)
Total equity	13,154	12,811
Total Liabilities and Equity	\$ 45,048	\$ 44,053

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

**DUKE ENERGY CAROLINAS, LLC
CONSOLIDATED STATEMENTS OF CASH FLOWS**

(in millions)	Years Ended December 31,		
	2020	2019	2018
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 956	\$ 1,403	\$ 1,071
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization (including amortization of nuclear fuel)	1,731	1,671	1,487
Equity component of AFUDC	(62)	(42)	(73)
(Gains) Losses on sales of other assets	(1)	—	1
Impairment charges	476	17	192
Deferred income taxes	(260)	133	305
Payments for asset retirement obligations	(162)	(278)	(230)
Provision for rate refunds	(5)	36	182
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	(4)	(8)	2
Receivables	52	(21)	(86)
Receivables from affiliated companies	(10)	68	(87)
Inventory	(14)	(48)	25
Other current assets	209	(73)	(161)
Increase (decrease) in			
Accounts payable	55	(50)	168
Accounts payable to affiliated companies	(11)	(20)	21
Taxes accrued	30	(127)	(65)
Other current liabilities	(56)	127	89
Other assets	(101)	(42)	(221)
Other liabilities	(47)	(37)	(90)
Net cash provided by operating activities	2,776	2,709	2,530
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(2,669)	(2,714)	(2,706)
Purchases of debt and equity securities	(1,602)	(1,658)	(1,810)
Proceeds from sales and maturities of debt and equity securities	1,602	1,658	1,810
Other	(164)	(204)	(147)
Net cash used in investing activities	(2,833)	(2,918)	(2,853)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	998	886	1,983
Payments for the redemption of long-term debt	(813)	(6)	(1,205)
Notes payable to affiliated companies	477	(410)	335
Distributions to parent	(600)	(275)	(750)
Other	(2)	(1)	(23)
Net cash provided by financing activities	60	194	340
Net increase (decrease) in cash and cash equivalents	3	(15)	17
Cash and cash equivalents at beginning of period	18	33	16
Cash and cash equivalents at end of period	\$ 21	\$ 18	\$ 33
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 481	\$ 433	\$ 452
Cash paid for income taxes	321	122	89
Significant non-cash transactions:			
Accrued capital expenditures	365	347	302

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

DUKE ENERGY CAROLINAS, LLC
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Member's Equity	Accumulated Other Comprehensive Loss		Total Equity
		Net Gains (Losses) on Cash Flow Hedges		
Balance at December 31, 2017	\$ 11,368	\$	(7)	\$ 11,361
Net income	1,071		—	1,071
Other comprehensive income	—		1	1
Distributions to parent	(750)		—	(750)
Balance at December 31, 2018	\$ 11,689	\$	(6)	\$ 11,683
Net income	1,403		—	1,403
Distributions to parent	(275)		—	(275)
Other	1		(1)	—
Balance at December 31, 2019	\$ 12,818	\$	(7)	\$ 12,811
Net income	956		—	956
Distributions to parent	(600)		—	(600)
Other ^(a)	(13)		—	(13)
Balance at December 31, 2020	\$ 13,161	\$	(7)	\$ 13,154

(a) Amounts primarily represent impacts due to implementation of a new accounting standard related to Credit Losses. See Note 1 for additional discussion.

See Notes to Consolidated Financial Statements

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REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of Directors of Progress Energy, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Progress Energy, Inc. and subsidiaries (the "Company") as of December 31, 2020 and 2019, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2020, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2020 and 2019, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2020, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical Audit Matter

The critical audit matter communicated below is a matter arising from the current-period audit of the financial statements that was communicated or required to be communicated to the audit committee and that (1) relates to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

Regulatory Matters — Impact of Rate Regulation on the Financial Statements — Refer to Notes 1, 3, and 9 to the financial statements.

Critical Audit Matter Description

The Company is subject to rate regulation by the North Carolina Utilities Commission, South Carolina Public Service Commission and Florida Public Service Commission (collectively the "Commissions"), which have jurisdiction with respect to the electric rates of the Company. Management has determined it meets the criteria for the application of regulated operations accounting in preparing its financial statements under accounting principles generally accepted in the United States of America. Significant judgment can be required to determine if otherwise recognizable incurred costs qualify to be presented as a regulatory asset and deferred because such costs are probable of future recovery in customer rates. As of December 31, 2020, the Company has approximately \$6.5 billion recorded as regulatory assets.

The Company's rates are subject to regulatory rate-setting processes and annual earnings oversight. Rates charged to customers are determined and approved in regulatory proceedings based on an analysis of the Company's costs to provide utility service and a return on the Company's investment in the utility business. Regulatory decisions can have an impact on the recovery of costs, the rate of return earned on investment and the timing and amount of assets to be recovered by rates. The regulation of rates is premised on the full recovery of prudently incurred costs and a reasonable rate of return on invested capital. As discussed in Note 3, regulatory proceedings in recent years in North Carolina and South Carolina have focused on the recoverability of asset retirement obligations specific to coal ash. As a result, assessing the potential outcomes of future regulatory orders in North Carolina and South Carolina requires significant management judgment.

We identified the impact of rate regulation as a critical audit matter due to the significant judgments made by management, including assumptions regarding the outcome of future decisions by the Commissions; to support its assertions on the likelihood of future recovery for deferred costs. As such, auditing these judgments required specialized knowledge of accounting for rate regulation due to its inherent complexities, a high degree of auditor judgment, and an increased extent of effort.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to the recovery of regulatory assets included the following, among others:

- We tested the effectiveness of management's controls over the evaluation of the likelihood of the recovery in future rates of regulatory assets and the monitoring and evaluation of regulatory developments that may affect the likelihood of recovering costs in future rates.
- We evaluated the Company's disclosures related to the impacts of rate regulation, including the balances recorded and regulatory developments.

REPORTS

- We read relevant regulatory orders issued by the Commissions, regulatory statutes, interpretations, procedural memorandums, filings made by interveners, and other publicly available information to assess the likelihood of recovery in future rates based on precedents of the Commissions' treatment of similar costs under similar circumstances. We evaluated the external information and compared it to management's recorded regulatory asset balances for completeness.
- For regulatory matters in process, we inspected the Company's and intervenors' filings with the Commissions, that may impact the Company's future rates, for any evidence that might contradict management's assertions.
- We evaluated the reasonableness of management's judgments regarding the recoverability of regulatory asset balances by performing the following:
 - We inquired of management regarding changes in regulatory orders and regulatory asset balances during the year.
 - We evaluated the reasonableness of such changes based on our knowledge of commission-approved amortization, expected incurred costs, and recently approved regulatory orders, as applicable.
 - We utilized trend analyses to evaluate the historical consistency of regulatory asset balances.
 - We compared the recorded regulatory asset balance to an independently developed expectation of the corresponding balance.
- We obtained an analysis from management and letters from internal legal counsel for asset retirement obligations specific to coal ash costs, regarding probability of recovery for deferred costs not yet addressed in a regulatory order to assess management's assertion that amounts are probable of recovery.
- We obtained representation from management asserting that regulatory assets recorded on the financial statements are probable of recovery.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 25, 2021

We have served as the Company's auditor since 1930.

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FINANCIAL STATEMENTS

PROGRESS ENERGY, INC.
CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2020	2019	2018
Operating Revenues	\$ 10,627	\$ 11,202	\$ 10,728
Operating Expenses			
Fuel used in electric generation and purchased power	3,479	4,024	3,976
Operation, maintenance and other	2,479	2,495	2,613
Depreciation and amortization	1,818	1,845	1,619
Property and other taxes	545	561	529
Impairment charges	495	(24)	87
Total operating expenses	8,816	8,901	8,824
Gains on Sales of Other Assets and Other, net	9	—	24
Operating Income	1,820	2,301	1,928
Other Income and Expenses, net	129	141	165
Interest Expense	790	862	842
Income Before Income Taxes	1,159	1,580	1,251
Income Tax Expense	113	253	218
Net Income	1,046	1,327	1,033
Less: Net Income Attributable to Noncontrolling Interests	1	—	6
Net Income Attributable to Parent	\$ 1,045	\$ 1,327	\$ 1,027
Net Income	\$ 1,046	\$ 1,327	\$ 1,033
Other Comprehensive Income, net of tax			
Pension and OPEB adjustments	(1)	2	5
Net unrealized gain on cash flow hedges	5	5	6
Unrealized (losses) gains on available-for-sale securities	(1)	1	(1)
Other Comprehensive Income, net of tax	3	8	10
Comprehensive Income	1,049	1,335	1,043
Less: Comprehensive Income Attributable to Noncontrolling Interests	1	—	6
Comprehensive Income Attributable to Parent	\$ 1,048	\$ 1,335	\$ 1,037

See Notes to Consolidated Financial Statements

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PROGRESS ENERGY, INC.

CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2020	2019
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 59	\$ 48
Receivables (net of allowance for doubtful accounts of \$8 at 2020 and \$7 at 2019)	228	220
Receivables of VIEs (net of allowance for doubtful accounts of \$29 at 2020 and \$9 at 2019)	901	830
Receivables from affiliated companies	157	76
Notes receivable from affiliated companies	—	164
Inventory	1,375	1,423
Regulatory assets (includes \$53 at 2020 and \$52 at 2019 related to VIEs)	758	946
Other (includes \$39 at 2020 and 2019 related to VIEs)	109	210
Total current assets	3,587	3,917
Property, Plant and Equipment		
Cost	57,892	55,070
Accumulated depreciation and amortization	(18,368)	(17,159)
Generation facilities to be retired, net	29	246
Net property, plant and equipment	39,553	38,157
Other Noncurrent Assets		
Goodwill	3,655	3,655
Regulatory assets (includes \$937 at 2020 and \$989 at 2019 related to VIEs)	5,775	6,346
Nuclear decommissioning trust funds	4,137	3,782
Operating lease right-of-use assets, net	690	788
Other	1,227	1,049
Total other noncurrent assets	15,484	15,620
Total Assets	\$ 58,624	\$ 57,694
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 919	\$ 1,104
Accounts payable to affiliated companies	289	310
Notes payable to affiliated companies	2,969	1,821
Taxes accrued	121	46
Interest accrued	202	228
Current maturities of long-term debt (includes \$305 at 2020 and \$54 at 2019 related to VIEs)	1,426	1,577
Asset retirement obligations	283	485
Regulatory liabilities	640	330
Other	793	902
Total current liabilities	7,642	6,803
Long-Term Debt (includes \$1,252 at 2020 and \$1,632 at 2019 related to VIEs)	17,688	17,907
Long-Term Debt Payable to Affiliated Companies	150	150
Other Noncurrent Liabilities		
Deferred income taxes	4,396	4,462
Asset retirement obligations	5,866	5,986
Regulatory liabilities	5,051	5,225
Operating lease liabilities	623	697
Accrued pension and other post-retirement benefit costs	505	488
Other	462	383
Total other noncurrent liabilities	16,903	17,241
Commitments and Contingencies		
Equity		
Common stock, \$0.01 par value, 100 shares authorized and outstanding at 2020 and 2019	—	—
Additional paid-in capital	9,143	9,143
Retained earnings	7,109	6,465
Accumulated other comprehensive loss	(15)	(18)
Total Progress Energy, Inc. stockholder's equity	16,237	15,590
Noncontrolling interests	4	3
Total equity	16,241	15,593
Total Liabilities and Equity	\$ 58,624	\$ 57,694

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

**PROGRESS ENERGY, INC.
CONSOLIDATED STATEMENTS OF CASH FLOWS**

(in millions)	Years Ended December 31,		
	2020	2019	2018
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 1,046	\$ 1,327	\$ 1,033
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion (including amortization of nuclear fuel)	2,327	2,207	1,987
Equity component of AFUDC	(42)	(66)	(104)
Gains on sales of other assets	(9)	—	(24)
Impairment charges	495	(24)	87
Deferred income taxes	(197)	433	358
Payments for asset retirement obligations	(384)	(412)	(230)
Provision for rate refunds	2	15	122
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	(9)	(34)	18
Receivables	(69)	47	(207)
Receivables from affiliated companies	(81)	81	(137)
Inventory	49	62	121
Other current assets	223	184	(12)
Increase (decrease) in			
Accounts payable	(62)	(4)	217
Accounts payable to affiliated companies	(21)	(50)	109
Taxes accrued	75	(74)	8
Other current liabilities	139	25	129
Other assets	(128)	(341)	(896)
Other liabilities	(177)	(167)	(35)
Net cash provided by operating activities	3,177	3,209	2,544
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(3,488)	(3,952)	(3,854)
Purchases of debt and equity securities	(5,998)	(1,511)	(1,753)
Proceeds from sales and maturities of debt and equity securities	6,010	1,504	1,769
Notes receivable from affiliated companies	164	(164)	240
Other	(160)	(190)	(162)
Net cash used in investing activities	(3,472)	(4,313)	(3,760)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	1,791	2,187	1,833
Payments for the redemption of long-term debt	(2,157)	(1,667)	(771)
Notes payable to affiliated companies	1,148	586	430
Dividends to parent	(400)	—	(250)
Other	(13)	12	(1)
Net cash provided by financing activities	369	1,118	1,241
Net increase in cash, cash equivalents, and restricted cash	74	14	25
Cash, cash equivalents, and restricted cash at beginning of period	126	112	87
Cash, cash equivalents, and restricted cash at end of period	\$ 200	\$ 126	\$ 112
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 819	\$ 892	\$ 798
Cash paid for (received from) income taxes	149	(79)	(348)
Significant non-cash transactions:			
Accrued capital expenditures	363	447	478

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

PROGRESS ENERGY, INC. CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Accumulated Other Comprehensive Income (Loss)							
	Additional Paid-in Capital	Retained Earnings	Net Gains (Losses) on Cash Flow Hedges	Net Unrealized Gains (Losses) on Available-for- Sale Securities	Pension and OPEB Adjustments	Total Progress Energy, Inc. Stockholder's Equity	Noncontrolling Interests	Total Equity
Balance at December 31, 2017	\$ 9,143	\$ 4,350	\$ (18)	\$ 5	\$ (12)	\$ 13,468	\$ (3)	\$ 13,465
Net income	—	1,027	—	—	—	1,027	6	1,033
Other comprehensive income (loss)	—	—	6	(1)	5	10	—	10
Distributions to noncontrolling interests	—	—	—	—	—	—	(1)	(1)
Dividends to parent	—	(250)	—	—	—	(250)	—	(250)
Other ^(a)	—	4	—	(5)	—	(1)	1	—
Balance at December 31, 2018	\$ 9,143	\$ 5,131	\$ (12)	\$ (1)	\$ (7)	\$ 14,254	\$ 3	\$ 14,257
Net income	—	1,327	—	—	—	1,327	—	1,327
Other comprehensive income	—	—	5	1	2	8	—	8
Other ^(b)	—	7	(3)	(1)	(2)	1	—	1
Balance at December 31, 2019	\$ 9,143	\$ 6,465	\$ (10)	\$ (1)	\$ (7)	\$ 15,590	\$ 3	\$ 15,593
Net income	—	1,045	—	—	—	1,045	1	1,046
Other comprehensive income (loss)	—	—	5	(1)	(1)	3	—	3
Dividends to parent	—	(400)	—	—	—	(400)	—	(400)
Other	—	(1)	—	—	—	(1)	—	(1)
Balance at December 31, 2020	\$ 9,143	\$ 7,109	\$ (5)	\$ (2)	\$ (8)	\$ 16,237	\$ 4	\$ 16,241

(a) Amounts in Retained Earnings and AOCI represent a cumulative-effect adjustment due to implementation of a new accounting standard related to Financial Instruments Classification and Measurement. See Note 1 for more information.

(b) Amounts in Retained Earnings and AOCI primarily represent impacts to accumulated other comprehensive income due to implementation of a new accounting standard related to Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income.

See Notes to Consolidated Financial Statements

REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of Directors of Duke Energy Progress, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Progress, LLC and subsidiaries (the "Company") as of December 31, 2020 and 2019, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2020, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2020 and 2019, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2020, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical Audit Matter

The critical audit matter communicated below is a matter arising from the current-period audit of the financial statements that was communicated or required to be communicated to the audit committee and that (1) relates to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

Regulatory Matters — Impact of Rate Regulation on the Financial Statements — Refer to Notes 1, 3, and 9 to the financial statements.

Critical Audit Matter Description

The Company is subject to rate regulation by the North Carolina Utilities Commission and by the South Carolina Public Service Commission (collectively the "Commissions"), which have jurisdiction with respect to the electric rates of the Company. Management has determined it meets the criteria for the application of regulated operations accounting in preparing its financial statements under accounting principles generally accepted in the United States of America. Significant judgment can be required to determine if otherwise recognizable incurred costs qualify to be presented as a regulatory asset and deferred because such costs are probable of future recovery in customer rates. As of December 31, 2020, the Company has approximately \$4.5 billion recorded as regulatory assets.

The Company's rates are subject to regulatory rate-setting processes and annual earnings oversight. Rates charged to customers are determined and approved in regulatory proceedings based on an analysis of the Company's costs to provide utility service and a return on the Company's investment in the utility business. Regulatory decisions can have an impact on the recovery of costs, the rate of return earned on investment and the timing and amount of assets to be recovered by rates. The regulation of rates is premised on the full recovery of prudently incurred costs and a reasonable rate of return on invested capital. As discussed in Note 3, regulatory proceedings in recent years in North Carolina and South Carolina have focused on the recoverability of asset retirement obligations specific to coal ash. As a result, assessing the potential outcomes of future regulatory orders in North Carolina and South Carolina requires significant management judgment.

We identified the impact of rate regulation as a critical audit matter due to the significant judgments made by management, including assumptions regarding the outcome of future decisions by the Commissions; to support its assertions on the likelihood of future recovery for deferred costs. As such, auditing these judgments required specialized knowledge of accounting for rate regulation due to its inherent complexities, a high degree of auditor judgment, and an increased extent of effort.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to the recovery of regulatory assets included the following, among others:

- We tested the effectiveness of management's controls over the evaluation of the likelihood of the recovery in future rates of regulatory assets and the monitoring and evaluation of regulatory developments that may affect the likelihood of recovering costs in future rates.
- We evaluated the Company's disclosures related to the impacts of rate regulation, including the balances recorded and regulatory developments.

REPORTS

- We read relevant regulatory orders issued by the Commissions, regulatory statutes, interpretations, procedural memorandums, filings made by interveners, and other publicly available information to assess the likelihood of recovery in future rates based on precedents of the Commissions' treatment of similar costs under similar circumstances. We evaluated the external information and compared it to management's recorded regulatory asset balances for completeness.
- For regulatory matters in process, we inspected the Company's and intervenors' filings with the Commissions, that may impact the Company's future rates, for any evidence that might contradict management's assertions.
- We evaluated the reasonableness of management's judgments regarding the recoverability of regulatory asset balances by performing the following:
 - We inquired of management regarding changes in regulatory orders and regulatory asset balances during the year.
 - We evaluated the reasonableness of such changes based on our knowledge of commission-approved amortization, expected incurred costs, and recently approved regulatory orders, as applicable.
 - We utilized trend analyses to evaluate the historical consistency of regulatory asset balances.
 - We compared the recorded regulatory asset balance to an independently developed expectation of the corresponding balance.
- We obtained an analysis from management and letters from internal legal counsel for asset retirement obligations specific to coal ash costs, regarding probability of recovery for deferred costs not yet addressed in a regulatory order to assess management's assertion that amounts are probable of recovery.
- We obtained representation from management asserting that regulatory assets recorded on the financial statements are probable of recovery.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 25, 2021

We have served as the Company's auditor since 1930.

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FINANCIAL STATEMENTS

**DUKE ENERGY PROGRESS, LLC
CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME**

(in millions)	Years Ended December 31,		
	2020	2019	2018
Operating Revenues	\$ 5,422	\$ 5,957	\$ 5,699
Operating Expenses			
Fuel used in electric generation and purchased power	1,743	2,012	1,892
Operation, maintenance and other	1,332	1,446	1,578
Depreciation and amortization	1,116	1,143	991
Property and other taxes	167	176	155
Impairment charges	499	12	33
Total operating expenses	4,857	4,789	4,649
Gains on Sales of Other Assets and Other, net	8	—	9
Operating Income	573	1,168	1,059
Other Income and Expenses, net	75	100	87
Interest Expense	269	306	319
Income Before Income Taxes	379	962	827
Income Tax (Benefit) Expense	(36)	157	160
Net Income and Comprehensive Income	\$ 415	\$ 805	\$ 667

See Notes to Consolidated Financial Statements

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DUKE ENERGY PROGRESS, LLC
CONSOLIDATED BALANCE SHEETS

(in millions)	December 31,	
	2020	2019
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 39	\$ 22
Receivables (net of allowance for doubtful accounts of \$4 at 2020 and \$3 at 2019)	132	123
Receivables of VIEs (net of allowance for doubtful accounts of \$19 at 2020 and \$5 at 2019)	500	489
Receivables from affiliated companies	50	52
Inventory	911	934
Regulatory assets	492	526
Other	60	60
Total current assets	2,184	2,206
Property, Plant and Equipment		
Cost	35,759	34,603
Accumulated depreciation and amortization	(12,801)	(11,915)
Generation facilities to be retired, net	29	246
Net property, plant and equipment	22,987	22,934
Other Noncurrent Assets		
Regulatory assets	3,976	4,152
Nuclear decommissioning trust funds	3,500	3,047
Operating lease right-of-use assets, net	346	387
Other	740	651
Total other noncurrent assets	8,562	8,237
Total Assets	\$ 33,733	\$ 33,377
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 454	\$ 629
Accounts payable to affiliated companies	215	203
Notes payable to affiliated companies	295	66
Taxes accrued	85	17
Interest accrued	99	110
Current maturities of long-term debt	603	1,006
Asset retirement obligations	283	485
Regulatory liabilities	530	236
Other	411	478
Total current liabilities	2,975	3,230
Long-Term Debt	8,505	7,902
Long-Term Debt Payable to Affiliated Companies	150	150
Other Noncurrent Liabilities		
Deferred income taxes	2,298	2,388
Asset retirement obligations	5,352	5,408
Regulatory liabilities	4,394	4,232
Operating lease liabilities	323	354
Accrued pension and other post-retirement benefit costs	242	238
Investment tax credits	132	137
Other	102	92
Total other noncurrent liabilities	12,843	12,849
Commitments and Contingencies		
Equity		
Member's Equity	9,260	9,246
Total Liabilities and Equity	\$ 33,733	\$ 33,377

See Notes to Consolidated Financial Statements

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DUKE ENERGY PROGRESS, LLC
CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)	Years Ended December 31,		
	2020	2019	2018
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 415	\$ 805	\$ 667
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization (including amortization of nuclear fuel)	1,299	1,329	1,183
Equity component of AFUDC	(29)	(60)	(57)
Gains on sales of other assets	(8)	—	(9)
Impairment charges	499	12	33
Deferred income taxes	(234)	197	236
Payments for asset retirement obligations	(304)	(390)	(195)
Provisions for rate refunds	2	12	122
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	1	(6)	5
Receivables	(4)	21	(107)
Receivables from affiliated companies	2	(29)	(20)
Inventory	23	20	63
Other current assets	98	101	(201)
Increase (decrease) in			
Accounts payable	(127)	32	219
Accounts payable to affiliated companies	12	(75)	99
Taxes accrued	68	(46)	(11)
Other current liabilities	157	68	46
Other assets	(207)	(205)	(465)
Other liabilities	3	37	20
Net cash provided by operating activities	1,666	1,823	1,628
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(1,581)	(2,108)	(2,220)
Purchases of debt and equity securities	(1,555)	(842)	(1,236)
Proceeds from sales and maturities of debt and equity securities	1,516	810	1,206
Other	(57)	(119)	(95)
Net cash used in investing activities	(1,677)	(2,259)	(2,345)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	1,296	1,269	845
Payments for the redemption of long-term debt	(1,085)	(605)	(3)
Notes payable to affiliated companies	229	(228)	54
Distributions to parent	(400)	—	(175)
Other	(12)	(1)	(1)
Net cash provided by financing activities	28	435	720
Net increase (decrease) in cash and cash equivalents	17	(1)	3
Cash and cash equivalents at beginning of period	22	23	20
Cash and cash equivalents at end of period	\$ 39	\$ 22	\$ 23
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 301	\$ 331	\$ 303
Cash paid for (received from) income taxes	123	(30)	(112)
Significant non-cash transactions:			
Accrued capital expenditures	149	175	220

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

DUKE ENERGY PROGRESS, LLC
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

		Member's
(in millions)		Equity
Balance at December 31, 2017	\$	7,949
Net income		667
Distribution to parent		(175)
Balance at December 31, 2018	\$	8,441
Net income		805
Balance at December 31, 2019	\$	9,246
Net income		415
Distribution to parent		(400)
Other		(1)
Balance at December 31, 2020	\$	9,260

See Notes to Consolidated Financial Statements

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REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of Directors of Duke Energy Florida, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Florida, LLC and subsidiaries (the "Company") as of December 31, 2020 and 2019, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2020, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2020 and 2019, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2020, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical Audit Matter

The critical audit matter communicated below is a matter arising from the current-period audit of the financial statements that was communicated or required to be communicated to the audit committee and that (1) relates to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

Regulatory Matters — Impact of Rate Regulation on the Financial Statements — Refer to Notes 1 and 3 to the financial statements.

Critical Audit Matter Description

The Company is subject to rate regulation by the Florida Public Service Commission (the "Commission"), which has jurisdiction with respect to the electric rates of the Company. Management has determined it meets the criteria for the application of regulated operations accounting in preparing its financial statements under accounting principles generally accepted in the United States of America. Significant judgment can be required to determine if otherwise recognizable incurred costs qualify to be presented as a regulatory asset and deferred because such costs are probable of future recovery in customer rates. As of December 31, 2020, the Company has approximately \$2.1 billion recorded as regulatory assets.

We identified the impact of rate regulation as a critical audit matter due to the significant judgments made by management, including assumptions regarding the outcome of future decisions by the Commission; to support its assertions on the likelihood of future recovery for deferred costs. Given that management's accounting judgments are based on assumptions about the outcome of future decisions by the Commission, auditing these judgments required specialized knowledge of accounting for rate regulation and the ratemaking process due to its inherent complexities.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to the recovery of regulatory assets included the following, among others:

- We tested the effectiveness of management's controls over the evaluation of the likelihood of the recovery in future rates of regulatory assets and the monitoring and evaluation of regulatory developments that may affect the likelihood of recovering costs in future rates.
- We evaluated the Company's disclosures related to the impacts of rate regulation, including the balances recorded and regulatory developments.
- We read relevant regulatory orders issued by the Commission, regulatory statutes, interpretations, procedural memorandums, filings made by interveners, and other publicly available information to assess the likelihood of recovery in future rates based on precedents of the Commission's treatment of similar costs under similar circumstances. We evaluated the external information and compared it to management's recorded regulatory asset balances for completeness.

REPORTS

- For regulatory matters in process, we inspected the Company's and intervenors' filings with the Commission, including the settlement agreement filed with the Commission subsequent to December 31, 2020, that may impact the Company's future rates, for any evidence that might contradict management's assertions.
- We evaluated the reasonableness of management's judgments regarding the recoverability of regulatory asset balances by performing the following:
 - We inquired of management regarding changes in regulatory orders and regulatory asset balances during the year.
 - We evaluated the reasonableness of such changes based on our knowledge of commission-approved amortization, expected incurred costs, and recently approved regulatory orders, as applicable.
 - We utilized trend analyses to evaluate the historical consistency of regulatory asset balances.
 - We compared the recorded regulatory asset balance to an independently developed expectation of the corresponding balance.
- We obtained representation from management asserting that regulatory assets recorded on the financial statements are probable of recovery.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 25, 2021

We have served as the Company's auditor since 2001.

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Step 13 2021

FINANCIAL STATEMENTS

DUKE ENERGY FLORIDA, LLC
CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2020	2019	2018
Operating Revenues	\$ 5,188	\$ 5,231	\$ 5,021
Operating Expenses			
Fuel used in electric generation and purchased power	1,737	2,012	2,085
Operation, maintenance and other	1,131	1,034	1,025
Depreciation and amortization	702	702	628
Property and other taxes	381	392	374
Impairment charges	(4)	(36)	54
Total operating expenses	3,947	4,104	4,166
Gains on Sales of Other Assets and Other, net	1	—	1
Operating Income	1,242	1,127	856
Other Income and Expenses, net	53	48	86
Interest Expense	326	328	287
Income Before Income Taxes	969	847	655
Income Tax Expense	198	155	101
Net Income	\$ 771	\$ 692	\$ 554
Other Comprehensive Income (Loss), net of tax			
Unrealized (losses) gains on available-for-sale securities	(1)	1	(1)
Other Comprehensive (Loss) Income, net of tax	(1)	1	(1)
Comprehensive Income	\$ 770	\$ 693	\$ 553

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

**DUKE ENERGY FLORIDA, LLC
CONSOLIDATED BALANCE SHEETS**

(in millions)	December 31,	
	2020	2019
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 11	\$ 17
Receivables (net of allowance for doubtful accounts of \$4 at 2020 and \$3 at 2019)	94	96
Receivables of VIEs (net of allowance for doubtful accounts of \$10 at 2020 and \$4 at 2019)	401	341
Receivables from affiliated companies	3	—
Notes receivable from affiliated companies	—	173
Inventory	464	489
Regulatory assets (includes \$53 at 2020 and \$52 at 2019 related to VIEs)	265	419
Other (includes \$39 at 2020 and 2019 related to VIEs)	41	58
Total current assets	1,279	1,593
Property, Plant and Equipment		
Cost	22,123	20,457
Accumulated depreciation and amortization	(5,560)	(5,236)
Net property, plant and equipment	16,563	15,221
Other Noncurrent Assets		
Regulatory assets (includes \$937 at 2020 and \$989 at 2019 related to VIEs)	1,799	2,194
Nuclear decommissioning trust funds	637	734
Operating lease right-of-use assets, net	344	401
Other	335	311
Total other noncurrent assets	3,115	3,640
Total Assets	\$ 20,957	\$ 20,454
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 465	\$ 474
Accounts payable to affiliated companies	85	131
Notes payable to affiliated companies	196	—
Taxes accrued	82	43
Interest accrued	69	75
Current maturities of long-term debt (includes \$305 at 2020 and \$54 at 2019 related to VIEs)	823	571
Regulatory liabilities	110	94
Other	374	415
Total current liabilities	2,204	1,803
Long-Term Debt (includes \$1,002 at 2020 and \$1,307 at 2019 related to VIEs)	7,092	7,416
Other Noncurrent Liabilities		
Deferred income taxes	2,191	2,179
Asset retirement obligations	514	578
Regulatory liabilities	658	993
Operating lease liabilities	300	343
Accrued pension and other post-retirement benefit costs	231	218
Other	209	136
Total other noncurrent liabilities	4,103	4,447
Commitments and Contingencies		
Equity		
Member's equity	7,560	6,789
Accumulated other comprehensive loss	(2)	(1)
Total equity	7,558	6,788
Total Liabilities and Equity	\$ 20,957	\$ 20,454

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

**DUKE ENERGY FLORIDA, LLC
CONSOLIDATED STATEMENTS OF CASH FLOWS**

(in millions)	Years Ended December 31,		
	2020	2019	2018
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 771	\$ 692	\$ 554
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion	1,019	869	793
Equity component of AFUDC	(12)	(6)	(47)
Gains on sales of other assets	(1)	—	(1)
Impairment charges	(4)	(36)	54
Deferred income taxes	27	180	159
Payments for asset retirement obligations	(80)	(22)	(35)
(Increase) decrease in			
Net realized and unrealized mark-to-market and hedging transactions	(14)	(33)	7
Receivables	(64)	26	(100)
Receivables from affiliated companies	(3)	17	(26)
Inventory	26	42	58
Other current assets	40	156	59
Increase (decrease) in			
Accounts payable	66	(36)	(1)
Accounts payable to affiliated companies	(46)	40	17
Taxes accrued	39	(31)	40
Other current liabilities	(7)	(36)	82
Other assets	85	(131)	(429)
Other liabilities	(181)	(213)	(75)
Net cash provided by operating activities	1,661	1,478	1,109
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(1,907)	(1,844)	(1,634)
Purchases of debt and equity securities	(4,443)	(669)	(517)
Proceeds from sales and maturities of debt and equity securities	4,495	695	563
Notes receivable from affiliated companies	173	(173)	313
Other	(103)	(67)	(65)
Net cash used in investing activities	(1,785)	(2,058)	(1,340)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	495	918	988
Payments for the redemption of long-term debt	(572)	(262)	(769)
Notes payable to affiliated companies	196	(108)	108
Distribution to parent	—	—	(75)
Other	(1)	13	1
Net cash provided by financing activities	118	561	253
Net (decrease) increase in cash, cash equivalents, and restricted cash	(6)	(19)	22
Cash, cash equivalents, and restricted cash at beginning of period	56	75	53
Cash, cash equivalents, and restricted cash at end of period	\$ 50	\$ 56	\$ 75
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 321	\$ 332	\$ 270
Cash paid for (received from) income taxes	138	1	(120)
Significant non-cash transactions:			
Accrued capital expenditures	214	272	258

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

DUKE ENERGY FLORIDA, LLC
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Accumulated Other Comprehensive Income (Loss)			Total Equity
	Member's Equity	Available-for- Sale Securities	Net Unrealized Gains (Losses) on	
Balance at December 31, 2017	\$ 5,614	\$ 4		\$ 5,618
Net income	554	—		554
Other comprehensive loss	—	(1)		(1)
Distribution to parent	(75)	—		(75)
Other ^(a)	4	(5)		(1)
Balance at December 31, 2018	\$ 6,097	\$ (2)		\$ 6,095
Net income	692	—		692
Other comprehensive income	—	1		1
Balance at December 31, 2019	\$ 6,789	\$ (1)		\$ 6,788
Net income	771	—		771
Other comprehensive loss	—	(1)		(1)
Balance at December 31, 2020	\$ 7,560	\$ (2)		\$ 7,558

(a) Amounts represent a cumulative-effect adjustment due to implementation of a new accounting standard related to Financial Instruments Classification and Measurement. See Note 1 for more information.

See Notes to Consolidated Financial Statements

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REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of Directors of Duke Energy Ohio, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Ohio, Inc. and subsidiaries (the "Company") as of December 31, 2020 and 2019, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2020, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2020 and 2019, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2020, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical Audit Matter

The critical audit matter communicated below is a matter arising from the current-period audit of the financial statements that was communicated or required to be communicated to the audit committee and that (1) relates to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

Regulatory Matters — Impact of Rate Regulation on the Financial Statements — Refer to Notes 1 and 3 to the financial statements.

Critical Audit Matter Description

The Company is subject to rate regulation by the Public Utilities Commission of Ohio and by the Kentucky Public Service Commission (collectively the "Commissions"), which have jurisdiction with respect to the electric and gas rates of the Company. Management has determined it meets the criteria for the application of regulated operations accounting in preparing its financial statements under accounting principles generally accepted in the United States of America. Significant judgment can be required to determine if otherwise recognizable incurred costs qualify to be presented as a regulatory asset and deferred because such costs are probable of future recovery in customer rates. As of December 31, 2020, the Company has approximately \$650 million recorded as regulatory assets.

We identified the impact of rate regulation as a critical audit matter due to the significant judgments made by management, including assumptions regarding the outcome of future decisions by the Commissions; to support its assertions on the likelihood of future recovery for deferred costs. Given that management's accounting judgments are based on assumptions about the outcome of future decisions by the Commissions, auditing these judgments required specialized knowledge of accounting for rate regulation and the ratemaking process due to its inherent complexities.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to the recovery of regulatory assets included the following, among others:

- We tested the effectiveness of management's controls over the evaluation of the likelihood of the recovery in future rates of regulatory assets and the monitoring and evaluation of regulatory developments that may affect the likelihood of recovering costs in future rates.
- We evaluated the Company's disclosures related to the impacts of rate regulation, including the balances recorded and regulatory developments.
- We read relevant regulatory orders issued by the Commissions, regulatory statutes, interpretations, procedural memorandums, filings made by intervenors, and other publicly available information to assess the likelihood of recovery in future rates based on precedents of the Commissions' treatment of similar costs under similar circumstances. We evaluated the external information and compared it to management's recorded regulatory asset balances for completeness.
- For regulatory matters in process, we inspected the Company's and intervenors' filings with the Commissions, that may impact the Company's future rates, for any evidence that might contradict management's assertions.

REPORTS

- We evaluated the reasonableness of management's judgments regarding the recoverability of regulatory asset balances by performing the following:
 - We inquired of management regarding changes in regulatory orders and regulatory asset balances during the year.
 - We evaluated the reasonableness of such changes based on our knowledge of commission-approved amortization, expected incurred costs, and recently approved regulatory orders, as applicable.
 - We utilized trend analyses to evaluate the historical consistency of regulatory asset balances.
 - We compared the recorded regulatory asset balance to an independently developed expectation of the corresponding balance.
- We obtained representation from management asserting that regulatory assets recorded on the financial statements are probable of recovery.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 25, 2021

We have served as the Company's auditor since 2002.

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FINANCIAL STATEMENTS

**DUKE ENERGY OHIO, INC.
CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME**

(in millions)	Years Ended December 31,		
	2020	2019	2018
Operating Revenues			
Regulated electric	\$ 1,405	\$ 1,456	\$ 1,450
Regulated natural gas	453	484	506
Nonregulated electric and other	—	—	1
Total operating revenues	1,858	1,940	1,957
Operating Expenses			
Fuel used in electric generation and purchased power – regulated	339	388	412
Cost of natural gas	73	95	113
Operation, maintenance and other	463	520	480
Depreciation and amortization	278	265	268
Property and other taxes	324	308	290
Total operating expenses	1,477	1,576	1,563
Losses on Sales of Other Assets and Other, net	—	—	(106)
Operating Income	381	364	288
Other Income and Expenses, net	16	24	23
Interest Expense	102	109	92
Income From Continuing Operations Before Income Taxes	295	279	219
Income Tax Expense From Continuing Operations	43	40	43
Income From Continuing Operations	252	239	176
Loss From Discontinued Operations, net of tax	—	(1)	—
Net Income and Comprehensive Income	\$ 252	\$ 238	\$ 176

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

**DUKE ENERGY OHIO, INC.
CONSOLIDATED BALANCE SHEETS**

(in millions)	December 31,	
	2020	2019
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 14	\$ 17
Receivables (net of allowance for doubtful accounts of \$4 at 2020 and \$4 at 2019)	98	84
Receivables from affiliated companies	102	92
Inventory	110	135
Regulatory assets	39	49
Other	31	21
Total current assets	394	398
Property, Plant and Equipment		
Cost	11,022	10,241
Accumulated depreciation and amortization	(3,013)	(2,843)
Net property, plant and equipment	8,009	7,398
Other Noncurrent Assets		
Goodwill	920	920
Regulatory assets	610	549
Operating lease right-of-use assets, net	20	21
Other	72	52
Total other noncurrent assets	1,622	1,542
Total Assets	\$ 10,025	\$ 9,338
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 279	\$ 288
Accounts payable to affiliated companies	68	68
Notes payable to affiliated companies	169	312
Taxes accrued	247	219
Interest accrued	31	30
Current maturities of long-term debt	50	—
Asset retirement obligations	3	1
Regulatory liabilities	65	64
Other	70	75
Total current liabilities	982	1,057
Long-Term Debt	3,014	2,594
Long-Term Debt Payable to Affiliated Companies	25	25
Other Noncurrent Liabilities		
Deferred income taxes	981	922
Asset retirement obligations	108	79
Regulatory liabilities	748	763
Operating lease liabilities	20	21
Accrued pension and other post-retirement benefit costs	113	100
Other	99	94
Total other noncurrent liabilities	2,069	1,979
Commitments and Contingencies		
Equity		
Common stock, \$8.50 par value, 120 million shares authorized; 90 million shares outstanding at 2020 and 2019	762	762
Additional paid-in capital	2,776	2,776
Retained earnings	397	145
Total equity	3,935	3,683
Total Liabilities and Equity	\$ 10,025	\$ 9,338

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

**DUKE ENERGY OHIO, INC.
CONSOLIDATED STATEMENTS OF CASH FLOWS**

(in millions)	Years Ended December 31,		
	2020	2019	2018
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 252	\$ 238	\$ 176
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and accretion	283	269	271
Equity component of AFUDC	(7)	(13)	(11)
Losses on sales of other assets	—	—	106
Deferred income taxes	31	81	25
Payments for asset retirement obligations	(2)	(8)	(3)
Provision for rate refunds	14	7	24
(Increase) decrease in			
Receivables	(13)	20	(33)
Receivables from affiliated companies	9	22	19
Inventory	25	(9)	7
Other current assets	(18)	(5)	16
Increase (decrease) in			
Accounts payable	2	(17)	(19)
Accounts payable to affiliated companies	—	(10)	16
Taxes accrued	30	17	12
Other current liabilities	3	1	14
Other assets	(32)	(26)	(24)
Other liabilities	(2)	(41)	(26)
Net cash provided by operating activities	575	526	570
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(834)	(952)	(827)
Notes receivable from affiliated companies	(19)	—	14
Other	(48)	(68)	(89)
Net cash used in investing activities	(901)	(1,020)	(902)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	467	1,003	99
Payments for the redemption of long-term debt	—	(551)	(3)
Notes payable to affiliated companies	(144)	38	245
Net cash provided by financing activities	323	490	341
Net (decrease) increase in cash and cash equivalents	(3)	(4)	9
Cash and cash equivalents at beginning of period	17	21	12
Cash and cash equivalents at end of period	\$ 14	\$ 17	\$ 21
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 97	\$ 97	\$ 87
Cash received from income taxes	—	(37)	(6)
Significant non-cash transactions:			
Accrued capital expenditures	104	109	95
Non-cash equity contribution from parent	—	—	106

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

DUKE ENERGY OHIO, INC.
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Common Stock	Additional Paid-in Capital	Retained Earnings (Deficit)	Total Equity
Balance at December 31, 2017	\$ 762	\$ 2,670	\$ (269)	\$ 3,163
Net income	—	—	176	176
Contribution from parent	—	106	—	106
Balance at December 31, 2018	\$ 762	\$ 2,776	\$ (93)	\$ 3,445
Net income	—	—	238	238
Balance at December 31, 2019	\$ 762	\$ 2,776	\$ 145	\$ 3,683
Net income	—	—	252	252
Balance at December 31, 2020	\$ 762	\$ 2,776	\$ 397	\$ 3,935

See Notes to Consolidated Financial Statements

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REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of Directors of Duke Energy Indiana, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Duke Energy Indiana, LLC and subsidiaries (the "Company") as of December 31, 2020 and 2019, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2020, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2020 and 2019, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2020, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical Audit Matters

The critical audit matters communicated below are matters arising from the current-period audit of the financial statements that were communicated or required to be communicated to the audit committee and that (1) relate to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matters below, providing separate opinions on the critical audit matters or on the accounts or disclosures to which they relate.

Regulatory Matters — Impact of Rate Regulation on the Financial Statements — Refer to Notes 1 and 3 to the financial statements.

Critical Audit Matter Description

The Company is subject to rate regulation by the Indiana Utility Regulatory Commission (the "Commission"), which has jurisdiction with respect to the electric rates of the Company. Management has determined it meets the criteria for the application of regulated operations accounting in preparing its financial statements under accounting principles generally accepted in the United States of America. Significant judgment can be required to determine if otherwise recognizable incurred costs qualify to be presented as a regulatory asset and deferred because such costs are probable of future recovery in customer rates. As of December 31, 2020, the Company has approximately \$1.3 billion recorded as regulatory assets.

We identified the impact of rate regulation as a critical audit matter due to the significant judgments made by management, including assumptions regarding the outcome of future decisions by the Commission; to support its assertions on the likelihood of future recovery for deferred costs. Given that management's accounting judgments are based on assumptions about the outcome of future decisions by the Commission, auditing these judgments required specialized knowledge of accounting for rate regulation and the ratemaking process due to its inherent complexities.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to the recovery of regulatory assets included the following, among others:

- We tested the effectiveness of management's controls over the evaluation of the likelihood of the recovery in future rates of regulatory assets and the monitoring and evaluation of regulatory developments that may affect the likelihood of recovering costs in future rates.
- We evaluated the Company's disclosures related to the impacts of rate regulation, including the balances recorded and regulatory developments.
- We read relevant regulatory orders issued by the Commission, regulatory statutes, interpretations, procedural memorandums, filings made by interveners, and other publicly available information to assess the likelihood of recovery in future rates based on precedents of the Commission's treatment of similar costs under similar circumstances. We evaluated the external information and compared it to management's recorded regulatory asset balances for completeness.

REPORTS

- For regulatory matters in process, we inspected the Company's and intervenors' filings with the Commission, that may impact the Company's future rates, for any evidence that might contradict management's assertions.
- We evaluated the reasonableness of management's judgments regarding the recoverability of regulatory asset balances by performing the following:
 - We inquired of management regarding changes in regulatory orders and regulatory asset balances during the year.
 - We evaluated the reasonableness of such changes based on our knowledge of commission-approved amortization, expected incurred costs, and recently approved regulatory orders, as applicable.
 - We utilized trend analyses to evaluate the historical consistency of regulatory asset balances.
 - We compared the recorded regulatory asset balance to an independently developed expectation of the corresponding balance.
- We obtained representation from management asserting that regulatory assets recorded on the financial statements are probable of recovery.

Duke Energy Indiana Coal Ash Asset Retirement Obligations – Refer to Notes 3, 4, and 9 to the financial statements

Critical Audit Matter Description

Duke Energy Indiana has asset retirement obligations associated with coal ash impoundments at operating and retired coal generation facilities. These legal obligations are the result of Indiana state and federal regulations. There is significant judgment in determining the assumptions used in estimating the closure costs for each site since Duke Energy Indiana does not have approved closure plans for certain sites. Potential changes to the projected closure costs for each site as well as probability weightings for the cash flows associated with the different potential closure methods ("probability weightings") creates estimation uncertainty. The liability for coal ash asset retirement obligations at Duke Energy Indiana was \$1,140 million at December 31, 2020.

We identified the asset retirement obligations associated with coal ash impoundments at Duke Energy Indiana as a critical audit matter because of the significant management estimates and assumptions, including projected closure costs as well as the different potential closure methods. The audit procedures to evaluate the reasonableness of management's estimates and assumptions related to potential changes to the projected closure costs for each site as well as probability weightings for the cash flows associated with the different potential closure methods required a high degree of auditor judgment and an increased extent of effort, including the need to involve our environmental specialists.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to the underlying estimated closure costs for coal ash asset retirement obligations at Duke Energy Indiana included the following, among others:

- We tested the effectiveness of controls over management's coal ash asset retirement obligation estimate, including those over management's determination of the estimated closure costs and probability weightings.
- We evaluated management's ability to accurately estimate future closure costs by comparing actual closure costs to management's historical estimates.
- We tested the mathematical accuracy of management's coal ash asset retirement obligation calculations, including the application of probability weightings.
- We made inquiries of internal and external legal counsel regarding the status of the legal matters associated with the probability weightings.
- We inspected the opinions from internal and external legal counsel supporting the probability weightings.
- We inspected the Company's filings with and orders from the Indiana Department of Environmental Management, for evidence that might contradict management's assertions regarding the estimated closure costs and probability weightings.
- With the assistance of our environmental specialists, we evaluated the reasonableness of management's estimated closure costs by comparing the costs to actual costs incurred at comparable coal ash impoundments, underlying contracts, and publicly available industry cost data, as applicable.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 25, 2021

We have served as the Company's auditor since 2002.

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FINANCIAL STATEMENTS

DUKE ENERGY INDIANA, LLC
CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2020	2019	2018
Operating Revenues	\$ 2,795	\$ 3,004	\$ 3,059
Operating Expenses			
Fuel used in electric generation and purchased power	767	935	1,000
Operation, maintenance and other	762	790	788
Depreciation and amortization	569	525	520
Property and other taxes	81	69	78
Impairment charges	—	—	30
Total operating expenses	2,179	2,319	2,416
Operating Income	616	685	643
Other Income and Expenses, net	37	41	45
Interest Expense	161	156	167
Income Before Income Taxes	492	570	521
Income Tax Expense	84	134	128
Net Income and Comprehensive Income	\$ 408	\$ 436	\$ 393

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

**DUKE ENERGY INDIANA, LLC
CONSOLIDATED BALANCE SHEETS**

(in millions)	December 31,	
	2020	2019
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 7	\$ 25
Receivables (net of allowance for doubtful accounts of \$3 at 2020 and \$3 at 2019)	55	60
Receivables from affiliated companies	112	79
Inventory	473	517
Regulatory assets	125	90
Other	37	60
Total current assets	809	831
Property, Plant and Equipment		
Cost	17,382	16,305
Accumulated depreciation and amortization	(5,661)	(5,233)
Net property, plant and equipment	11,721	11,072
Other Noncurrent Assets		
Regulatory assets	1,203	1,082
Operating lease right-of-use assets, net	55	57
Other	253	234
Total other noncurrent assets	1,511	1,373
Total Assets	\$ 14,041	\$ 13,276
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 188	\$ 201
Accounts payable to affiliated companies	88	87
Notes payable to affiliated companies	131	30
Taxes accrued	62	49
Interest accrued	51	58
Current maturities of long-term debt	70	503
Asset retirement obligations	168	189
Regulatory liabilities	111	55
Other	83	112
Total current liabilities	952	1,284
Long-Term Debt	3,871	3,404
Long-Term Debt Payable to Affiliated Companies	150	150
Other Noncurrent Liabilities		
Deferred income taxes	1,228	1,150
Asset retirement obligations	1,008	643
Regulatory liabilities	1,627	1,685
Operating lease liabilities	53	55
Accrued pension and other post-retirement benefit costs	171	148
Investment tax credits	168	164
Other	30	18
Total other noncurrent liabilities	4,285	3,863
Commitments and Contingencies		
Equity		
Member's Equity	4,783	4,575
Total Liabilities and Equity	\$ 14,041	\$ 13,276

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

**DUKE ENERGY INDIANA, LLC
CONSOLIDATED STATEMENTS OF CASH FLOWS**

(in millions)	Years Ended December 31,		
	2020	2019	2018
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 408	\$ 436	\$ 393
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization, and accretion	572	531	524
Equity component of AFUDC	(23)	(18)	(32)
Impairment charges	—	—	30
Deferred income taxes	29	156	95
Payments for asset retirement obligations	(63)	(48)	(69)
Provision for rate refunds	—	—	53
(Increase) decrease in			
Receivables	8	(8)	7
Receivables from affiliated companies	—	41	3
Inventory	44	(95)	28
Other current assets	(3)	76	(25)
Increase (decrease) in			
Accounts payable	(12)	(10)	37
Accounts payable to affiliated companies	1	4	5
Taxes accrued	13	(25)	(52)
Other current liabilities	6	15	14
Other assets	(68)	(74)	26
Other liabilities	26	16	(31)
Net cash provided by operating activities	938	997	1,006
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(888)	(876)	(832)
Purchases of debt and equity securities	(37)	(26)	(48)
Proceeds from sales and maturities of debt and equity securities	22	20	44
Notes receivable from affiliated companies	(33)	—	—
Other	48	(49)	18
Net cash used in investing activities	(888)	(931)	(818)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	544	485	—
Payments for the redemption of long-term debt	(513)	(213)	(3)
Notes payable to affiliated companies	101	(137)	6
Distributions to parent	(200)	(200)	(175)
Other	—	—	(1)
Net cash used in financing activities	(68)	(65)	(173)
Net (decrease) increase in cash and cash equivalents	(18)	1	15
Cash and cash equivalents at beginning of period	25	24	9
Cash and cash equivalents at end of period	\$ 7	\$ 25	\$ 24
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 164	\$ 150	\$ 162
Cash paid for (received from) income taxes	36	(6)	75
Significant non-cash transactions:			
Accrued capital expenditures	101	102	88

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

DUKE ENERGY INDIANA, LLC
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

		Member's
(in millions)		Equity
Balance at December 31, 2017	\$	4,121
Net income		393
Distributions to parent		(175)
Balance at December 31, 2018	\$	4,339
Net income		436
Distributions to parent		(200)
Balance at December 31, 2019	\$	4,575
Net income		408
Distributions to parent		(200)
Balance at December 31, 2020	\$	4,783

See Notes to Consolidated Financial Statements

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REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholder and the Board of Directors of Piedmont Natural Gas Company, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Piedmont Natural Gas Company, Inc. and subsidiaries (the "Company") as of December 31, 2020 and 2019, the related consolidated statements of operations and comprehensive income, changes in equity, and cash flows, for each of the three years in the period ended December 31, 2020, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2020 and 2019, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2020, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical Audit Matter

The critical audit matter communicated below is a matter arising from the current-period audit of the financial statements that was communicated or required to be communicated to the audit committee and that (1) relates to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

Regulatory Matters — Impact of Rate Regulation on the Financial Statements — Refer to Notes 1 and 3 to the financial statements.

Critical Audit Matter Description

The Company is subject to rate regulation by the North Carolina Utilities Commission, the Public Service Commission of South Carolina, and the Tennessee Public Utility Commission (collectively the "Commissions"), which have jurisdiction with respect to the gas rates of the Company. Management has determined it meets the criteria for the application of regulated operations accounting in preparing its financial statements under accounting principles generally accepted in the United States of America. Significant judgment can be required to determine if otherwise recognizable incurred costs qualify to be presented as a regulatory asset and deferred because such costs are probable of future recovery in customer rates. As of December 31, 2020, the Company has approximately \$450 million recorded as regulatory assets.

We identified the impact of rate regulation as a critical audit matter due to the significant judgments made by management, including assumptions regarding the outcome of future decisions by the Commissions; to support its assertions on the likelihood of future recovery for deferred costs. Given that management's accounting judgments are based on assumptions about the outcome of future decisions by the Commissions, auditing these judgments required specialized knowledge of accounting for rate regulation and the ratemaking process due to its inherent complexities.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to the recovery of regulatory assets included the following, among others:

- We tested the effectiveness of management's controls over the evaluation of the likelihood of the recovery in future rates of regulatory assets and the monitoring and evaluation of regulatory developments that may affect the likelihood of recovering costs in future rates.
- We evaluated the Company's disclosures related to the impacts of rate regulation, including the balances recorded and regulatory developments.
- We read relevant regulatory orders issued by the Commissions, regulatory statutes, interpretations, procedural memorandums, filings made by interveners, and other publicly available information to assess the likelihood of recovery in future rates based on precedents of the Commissions' treatment of similar costs under similar circumstances. We evaluated the external information and compared it to management's recorded regulatory asset balances for completeness.

REPORTS

- For regulatory matters in process, we inspected the Company's and intervenors' filings with the Commissions, that may impact the Company's future rates, for any evidence that might contradict management's assertions.
- We evaluated the reasonableness of management's judgments regarding the recoverability of regulatory asset balances by performing the following:
 - We inquired of management regarding changes in regulatory orders and regulatory asset balances during the year.
 - We evaluated the reasonableness of such changes based on our knowledge of commission-approved amortization, expected incurred costs, and recently approved regulatory orders, as applicable.
 - We utilized trend analyses to evaluate the historical consistency of regulatory asset balances.
 - We compared the recorded regulatory asset balance to an independently developed expectation of the corresponding balance.
- We obtained representation from management asserting that regulatory assets recorded on the financial statements are probable of recovery.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 25, 2021

We have served as the Company's auditor since 1951.

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FINANCIAL STATEMENTS

PIEDMONT NATURAL GAS COMPANY, INC.
CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME

(in millions)	Years Ended December 31,		
	2020	2019	2018
Operating Revenues			
Regulated natural gas	\$ 1,286	\$ 1,369	\$ 1,365
Nonregulated natural gas and other	11	12	10
Total operating revenues	1,297	1,381	1,375
Operating Expenses			
Cost of natural gas	386	532	584
Operation, maintenance and other	322	328	357
Depreciation and amortization	180	172	159
Property and other taxes	53	45	49
Impairment charges	7	—	—
Total operating expenses	948	1,077	1,149
Operating Income	349	304	226
Equity in earnings of unconsolidated affiliates	9	8	7
Other income and expense, net	51	20	14
Total other income and expenses	60	28	21
Interest Expense	118	87	81
Income Before Income Taxes	291	245	166
Income Tax Expense	18	43	37
Net Income and Comprehensive Income	\$ 273	\$ 202	\$ 129

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

**PIEDMONT NATURAL GAS COMPANY, INC.
CONSOLIDATED BALANCE SHEETS**

(in millions)	December 31,	
	2020	2019
ASSETS		
Current Assets		
Receivables (net of allowance for doubtful accounts of \$12 at 2020 and \$6 at 2019)	\$ 250	\$ 241
Receivables from affiliated companies	10	10
Inventory	68	72
Regulatory assets	153	73
Other	20	28
Total current assets	501	424
Property, Plant and Equipment		
Cost	9,134	8,446
Accumulated depreciation and amortization	(1,749)	(1,681)
Net property, plant and equipment	7,385	6,765
Other Noncurrent Assets		
Goodwill	49	49
Regulatory assets	302	290
Operating lease right-of-use assets, net	20	24
Investments in equity method unconsolidated affiliates	88	83
Other	270	121
Total other noncurrent assets	729	567
Total Assets	\$ 8,615	\$ 7,756
LIABILITIES AND EQUITY		
Current Liabilities		
Accounts payable	\$ 230	\$ 215
Accounts payable to affiliated companies	79	3
Notes payable to affiliated companies	530	476
Taxes accrued	23	24
Interest accrued	34	33
Current maturities of long-term debt	160	—
Regulatory liabilities	88	81
Other	69	67
Total current liabilities	1,213	899
Long-Term Debt		
	2,620	2,384
Other Noncurrent Liabilities		
Deferred income taxes	821	708
Asset retirement obligations	20	17
Regulatory liabilities	1,044	1,131
Operating lease liabilities	19	23
Accrued pension and other post-retirement benefit costs	8	3
Other	155	148
Total other noncurrent liabilities	2,067	2,030
Commitments and Contingencies		
Equity		
Common stock, 0 par value: 100 shares authorized and outstanding at 2020 and 2019	1,310	1,310
Retained earnings	1,405	1,133
Total equity	2,715	2,443
Total Liabilities and Equity	\$ 8,615	\$ 7,756

See Notes to Consolidated Financial Statements

FINANCIAL STATEMENTS

**PIEDMONT NATURAL GAS COMPANY, INC.
CONSOLIDATED STATEMENTS OF CASH FLOWS**

(in millions)	Years Ended December 31,		
	2020	2019	2018
CASH FLOWS FROM OPERATING ACTIVITIES			
Net income	\$ 273	\$ 202	\$ 129
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization	182	174	161
Equity component of AFUDC	(19)	—	—
Impairment charges	7	—	—
Deferred income taxes	53	136	(31)
Equity in (earnings) losses from unconsolidated affiliates	(9)	(8)	(7)
Provision for rate refunds	(33)	2	43
(Increase) decrease in			
Receivables	10	28	7
Receivables from affiliated companies	—	12	(15)
Inventory	3	(2)	(4)
Other current assets	(66)	(25)	71
Increase (decrease) in			
Accounts payable	16	(7)	15
Accounts payable to affiliated companies	76	(35)	25
Taxes accrued	3	(60)	65
Other current liabilities	(11)	1	21
Other assets	(11)	1	3
Other liabilities	7	(10)	(5)
Net cash provided by operating activities	481	409	478
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditures	(901)	(1,053)	(721)
Contributions to equity method investments	—	(16)	—
Other	(28)	(14)	(10)
Net cash used in investing activities	(929)	(1,083)	(731)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from the issuance of long-term debt	394	596	100
Payments for the redemption of long-term debt	—	(350)	—
Notes payable to affiliated companies	54	278	(166)
Capital contribution from parent	—	150	300
Net cash provided by financing activities	448	674	234
Net decrease in cash and cash equivalents	—	—	(19)
Cash and cash equivalents at beginning of period	—	—	19
Cash and cash equivalents at end of period	\$ —	\$ —	\$ —
Supplemental Disclosures:			
Cash paid for interest, net of amount capitalized	\$ 115	\$ 84	\$ 79
Cash received from income taxes	(36)	(31)	(16)
Significant non-cash transactions:			
Accrued capital expenditures	106	109	96

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

PIEDMONT NATURAL GAS COMPANY, INC.
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)	Common Stock	Retained Earnings	Total Equity
Balance at December 31, 2017	\$ 860	\$ 802	\$ 1,662
Net income	—	129	129
Contribution from parent	300	—	300
Balance at December 31, 2018	\$ 1,160	\$ 931	\$ 2,091
Net income	—	202	202
Contribution from parent	150	—	150
Balance at December 31, 2019	\$ 1,310	\$ 1,133	\$ 2,443
Net income	—	273	273
Other	—	(1)	(1)
Balance at December 31, 2020	\$ 1,310	\$ 1,405	\$ 2,715

See Notes to Consolidated Financial Statements

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FINANCIAL STATEMENTS

SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Index to Combined Notes To Consolidated Financial Statements

The notes to the consolidated financial statements are a combined presentation. The following table indicates the registrants to which the notes apply.

Registrant	Applicable Notes																								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Duke Energy
Duke Energy Carolinas
Progress Energy
Duke Energy Progress
Duke Energy Florida
Duke Energy Ohio
Duke Energy Indiana
Piedmont

Tables within the notes may not sum across due to (i) Progress Energy's consolidation of Duke Energy Progress, Duke Energy Florida and other subsidiaries that are not registrants and (ii) subsidiaries that are not registrants but included in the consolidated Duke Energy balances.

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Nature of Operations and Basis of Consolidation

Duke Energy is an energy company headquartered in Charlotte, North Carolina, subject to regulation by the FERC and other regulatory agencies listed below. Duke Energy operates in the U.S. primarily through its direct and indirect subsidiaries. Certain Duke Energy subsidiaries are also subsidiary registrants, including Duke Energy Carolinas; Progress Energy; Duke Energy Progress; Duke Energy Florida; Duke Energy Ohio; Duke Energy Indiana and Piedmont. When discussing Duke Energy's consolidated financial information, it necessarily includes the results of its separate Subsidiary Registrants, which along with Duke Energy, are collectively referred to as the Duke Energy Registrants.

The information in these combined notes relates to each of the Duke Energy Registrants as noted in the Index to Combined Notes to Consolidated Financial Statements. However, none of the Subsidiary Registrants make any representation as to information related solely to Duke Energy or the Subsidiary Registrants of Duke Energy other than itself.

These Consolidated Financial Statements include, after eliminating intercompany transactions and balances, the accounts of the Duke Energy Registrants and subsidiaries or VIEs where the respective Duke Energy Registrants have control. See Note 17 for additional information on VIEs. These Consolidated Financial Statements also reflect the Duke Energy Registrants' proportionate share of certain jointly owned generation and transmission facilities. See Note 8 for additional information on joint ownership. Substantially all of the Subsidiary Registrants' operations qualify for regulatory accounting.

Duke Energy Carolinas is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Carolinas is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Progress Energy is a public utility holding company, which conducts operations through its wholly owned subsidiaries, Duke Energy Progress and Duke Energy Florida. Progress Energy is subject to regulation by FERC and other regulatory agencies listed below.

Duke Energy Progress is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of North Carolina and South Carolina. Duke Energy Progress is subject to the regulatory provisions of the NCUC, PSCSC, NRC and FERC.

Duke Energy Florida is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Florida. Duke Energy Florida is subject to the regulatory provisions of the FPSC, NRC and FERC.

Duke Energy Ohio is a regulated public utility primarily engaged in the transmission and distribution of electricity in portions of Ohio and Kentucky, the generation and sale of electricity in portions of Kentucky and the transportation and sale of natural gas in portions of Ohio and Kentucky. Duke Energy Ohio conducts competitive auctions for retail electricity supply in Ohio whereby the energy price is recovered from retail customers and recorded in Operating Revenues on the Consolidated Statements of Operations and Comprehensive Income. Operations in Kentucky are conducted through its wholly owned subsidiary, Duke Energy Kentucky. References herein to Duke Energy Ohio collectively include Duke Energy Ohio and its subsidiaries, unless otherwise noted. Duke Energy Ohio is subject to the regulatory provisions of the PUCO, KPSC and FERC.

Duke Energy Indiana is a regulated public utility primarily engaged in the generation, transmission, distribution and sale of electricity in portions of Indiana. Duke Energy Indiana is subject to the regulatory provisions of the IURC and FERC.

Piedmont is a regulated public utility primarily engaged in the distribution of natural gas in portions of North Carolina, South Carolina and Tennessee. Piedmont is subject to the regulatory provisions of the NCUC, PSCSC, TPUC and FERC.

Certain prior year amounts have been reclassified to conform to the current year presentation.

FINANCIAL STATEMENTS

SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

COVID-19

The COVID-19 pandemic is having a significant impact on global health and economic environments. In March 2020, the World Health Organization declared COVID-19 a global pandemic, and the federal government proclaimed that the COVID-19 outbreak in the United States constitutes a national emergency. The Duke Energy Registrants are monitoring developments closely and responding appropriately. The company incurred approximately \$112 million of incremental COVID-19 costs before deferral for the year ended December 31, 2020, included in Operation, maintenance and other on the Consolidated Statements of Operations. Further, the company waived approximately \$64 million of late payment fees for the year ended December 31, 2020. The company has deferred approximately \$76 million of the incremental costs, which were primarily bad debt expense, personal protective equipment and cleaning supplies, and a cost component of late payment fees. See Notes 3, 6, 17, 18 and 23 for additional information as well as steps taken to mitigate the impacts to our business and customers from the COVID-19 pandemic.

Other Current Assets and Liabilities

The following table provides a description of amounts included in Other within Current Assets or Current Liabilities that exceed 5% of total Current Assets or Current Liabilities on the Duke Energy Registrants' Consolidated Balance Sheets at either December 31, 2020, or 2019.

(in millions)	Location	December 31,	
		2020	2019
Duke Energy			
Other accrued liabilities	Current Liabilities	\$ 1,455	\$ 604
Accrued compensation	Current Liabilities	662	862
Duke Energy Carolinas			
Accrued compensation	Current Liabilities	\$ 213	\$ 271
Other accrued liabilities	Current Liabilities	178	147
Progress Energy			
Customer deposits	Current Liabilities	\$ 347	\$ 354
Duke Energy Florida			
Customer deposits	Current Liabilities	\$ 203	\$ 209
Duke Energy Ohio			
Gas Storage	Current Assets	\$ 21	\$ —
Duke Energy Indiana			
Income taxes receivable	Current Assets	\$ 9	\$ 44

Discontinued Operations

Duke Energy has elected to present cash flows of discontinued operations combined with cash flows of continuing operations. Unless otherwise noted, the notes to these consolidated financial statements exclude amounts related to discontinued operations for all periods presented. For the years ended December 31, 2020, 2019 and 2018, the Income (Loss) From Discontinued Operations, net of tax on Duke Energy's Consolidated Statements of Operations is entirely attributable to controlling interest.

Noncontrolling Interest

Duke Energy maintains a controlling financial interest in certain less than wholly owned nonregulated subsidiaries. As a result, Duke Energy consolidates these subsidiaries and presents the third-party investors' portion of Duke Energy's net income (loss), net assets and comprehensive income (loss) as noncontrolling interest. Noncontrolling interest is included as a component of equity on the Consolidated Balance Sheet.

Several operating agreements of Duke Energy's subsidiaries with noncontrolling interest are subject to allocations of tax attributes and cash flows in accordance with contractual agreements that vary throughout the lives of the subsidiaries. Therefore, Duke Energy and the other investors' (the owners) interests in the subsidiaries are not fixed, and the subsidiaries apply the HLBV method in allocating income or loss and other comprehensive income or loss (all measured on a pretax basis) to the owners. The HLBV method measures the amounts that each owner would hypothetically claim at each balance sheet reporting date, including tax benefits realized by the owners, most of which is over the IRS recapture period, upon a hypothetical liquidation of the subsidiary at the net book value of its underlying assets. The change in the amount that each owner would hypothetically receive at the reporting date compared to the amount it would have received on the previous reporting date represents the amount of income or loss allocated to each owner for the reporting period.

Other operating agreements of Duke Energy's subsidiaries with noncontrolling interest allocate profit and loss based on their pro rata shares of the ownership interest in the respective subsidiary. Therefore, Duke Energy allocates net income or loss and other comprehensive income or loss of these subsidiaries to the owners based on their pro rata shares.

FINANCIAL STATEMENTS

SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

During the third quarter of 2019, Duke Energy completed a sale of minority interest in a portion of certain renewable assets within the Commercial Renewables Segment for pretax proceeds to Duke Energy of \$415 million. The portion of Duke Energy's commercial renewables energy portfolio sold includes 49% of 37 operating wind, solar and battery storage assets and 33% of 11 operating solar assets across the U.S. Duke Energy retained control of these assets, and, therefore, no gain or loss was recognized on the Consolidated Statements of Operations. The difference between the consideration received and the carrying value of the noncontrolling interest claim on net assets is \$466 million, net of tax benefit of \$8 million, and was recorded to equity.

The following table presents cash received for the sale of noncontrolling interest and allocated losses to noncontrolling interest for the years ended December 31, 2020, and 2019.

(in millions)	December 31,	
	2020	2019
Noncontrolling Interest Capital Contributions		
Cash received for the sale of noncontrolling interest to tax equity members	\$ 426	\$ 428
Cash received for the sale of noncontrolling interest to pro rata share members	—	415
Total Noncontrolling Interest Capital Contributions	\$ 426	\$ 843
Noncontrolling Interest Allocation of Income		
Allocated losses to noncontrolling tax equity members utilizing the HLBV method	\$ 271	\$ 165
Allocated losses to noncontrolling members based on pro rata shares of ownership	24	12
Total Noncontrolling Interest Allocated Losses	\$ 295	\$ 177

2021 Sale of Minority Interest in Duke Energy Indiana

In January 2021, Duke Energy entered into a definitive agreement providing for the sale of a 19.9% minority interest in Duke Energy Indiana with an affiliate of GIC, Singapore's sovereign wealth fund and an experienced investor in U.S. infrastructure. To facilitate the transaction, Duke Energy will issue and sell membership interests in Duke Energy Indiana Holdco, LLC, a newly created holding company that will own 100% of the issued and outstanding membership interests in Duke Energy Indiana. The transaction will be completed following two closings for an aggregate purchase price of approximately \$2 billion. The first closing is expected to be completed in the second quarter of 2021 and Duke Energy will issue and sell 11.1% of the membership interests in exchange for 50% of the purchase price. Under the terms of the agreement, Duke Energy has the discretion to determine the timing of the second closing, but it will occur no later than January 2023. At the second closing, Duke Energy will issue and sell additional membership interests such that GIC will own 19.9% of the membership interests for the remaining 50% of the purchase price. Duke Energy will continue to operate and retain control of Duke Energy Indiana and, therefore, no gain or loss is expected to be recognized in the Consolidated Statements of Operations. Additionally, the transaction will be reflected within Duke Energy Corporations' stockholders' equity as a sale of a noncontrolling interest.

Acquisitions

The Duke Energy Registrants consolidate assets and liabilities from acquisitions as of the purchase date and include earnings from acquisitions in consolidated earnings after the purchase date.

Significant Accounting Policies

Use of Estimates

In preparing financial statements that conform to GAAP, the Duke Energy Registrants must make estimates and assumptions that affect the reported amounts of assets and liabilities, the reported amounts of revenues and expenses and the disclosure of contingent assets and liabilities at the date of the financial statements. Actual results could differ from those estimates.

Regulatory Accounting

The majority of the Duke Energy Registrants' operations are subject to price regulation for the sale of electricity and natural gas by state utility commissions or FERC. When prices are set on the basis of specific costs of the regulated operations and an effective franchise is in place such that sufficient natural gas or electric services can be sold to recover those costs, the Duke Energy Registrants apply regulatory accounting. Regulatory accounting changes the timing of the recognition of costs or revenues relative to a company that does not apply regulatory accounting. As a result, regulatory assets and regulatory liabilities are recognized on the Consolidated Balance Sheets. Regulatory assets and liabilities are amortized consistent with the treatment of the related cost in the ratemaking process. Regulatory assets are reviewed for recoverability each reporting period. If a regulatory asset is no longer deemed probable of recovery, the deferred cost is charged to earnings. See Note 3 for further information.

Regulatory accounting rules also require recognition of a disallowance (also called "impairment") loss if it becomes probable that part of the cost of a plant under construction (or a recently completed plant or an abandoned plant) will be disallowed for ratemaking purposes and a reasonable estimate of the amount of the disallowance can be made. For example, if a cost cap is set for a plant still under construction, the amount of the disallowance is a result of a judgment as to the ultimate cost of the plant. These disallowances can require judgments on allowed future rate recovery.

FINANCIAL STATEMENTS

SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

When it becomes probable that regulated generation, transmission or distribution assets will be abandoned, the cost of the asset is removed from plant in service. The value that may be retained as a regulatory asset on the balance sheet for the abandoned property is dependent upon amounts that may be recovered through regulated rates, including any return. As such, an impairment charge could be partially or fully offset by the establishment of a regulatory asset if rate recovery is probable. The impairment charge for a disallowance of costs for regulated plants under construction, recently completed or abandoned is based on discounted cash flows.

The Duke Energy Registrants utilize cost-tracking mechanisms, commonly referred to as fuel adjustment clauses or PGA clauses. These clauses allow for the recovery of fuel and fuel-related costs, portions of purchased power, natural gas costs and hedging costs through surcharges on customer rates. The difference between the costs incurred and the surcharge revenues is recorded either as an adjustment to Operating Revenues, Operating Expenses – Fuel used in electric generation or Operating Expenses – Cost of natural gas on the Consolidated Statements of Operations, with an off-setting impact on regulatory assets or liabilities.

Cash, Cash Equivalents and Restricted Cash

All highly liquid investments with maturities of three months or less at the date of acquisition are considered cash equivalents. Duke Energy, Progress Energy and Duke Energy Florida have restricted cash balances related primarily to collateral assets, escrow deposits and VIEs. See Note 17 for additional information. Restricted cash amounts are included in Other within Current Assets and Other Noncurrent Assets on the Consolidated Balance Sheets. The following table presents the components of cash, cash equivalents and restricted cash included in the Consolidated Balance Sheets.

	December 31, 2020			December 31, 2019		
	Duke Energy	Progress Energy	Duke Energy Florida	Duke Energy	Progress Energy	Duke Energy Florida
Current Assets						
Cash and cash equivalents	\$ 259	\$ 59	\$ 11	\$ 311	\$ 48	\$ 17
Other	194	39	39	222	39	39
Other Noncurrent Assets						
Other	103	102	—	40	39	—
Total cash, cash equivalents and restricted cash	\$ 556	\$ 200	\$ 50	\$ 573	\$ 126	\$ 56

Inventory

Inventory related to regulated operations is valued at historical cost. Inventory related to nonregulated operations is valued at the lower of cost or market. Inventory is charged to expense or capitalized to property, plant and equipment when issued, primarily using the average cost method. Excess or obsolete inventory is written down to the lower of cost or net realizable value. Once inventory has been written down, it creates a new cost basis for the inventory that is not subsequently written up. Provisions for inventory write-offs were not material at December 31, 2020, and 2019, respectively. The components of inventory are presented in the tables below.

(in millions)	December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Materials and supplies	\$ 2,312	\$ 785	\$ 999	\$ 673	\$ 325	\$ 78	\$ 307	\$ 12
Coal	561	186	193	131	63	16	165	—
Natural gas, oil and other	294	39	183	107	76	16	1	56
Total inventory	\$ 3,167	\$ 1,010	\$ 1,375	\$ 911	\$ 464	\$ 110	\$ 473	\$ 68

(in millions)	December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Materials and supplies	\$ 2,297	\$ 768	\$ 1,038	\$ 686	\$ 351	\$ 79	\$ 318	\$ 5
Coal	586	187	186	138	48	15	198	—
Natural gas, oil and other	349	41	199	110	90	41	1	67
Total inventory	\$ 3,232	\$ 996	\$ 1,423	\$ 934	\$ 489	\$ 135	\$ 517	\$ 72

FINANCIAL STATEMENTS

SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Investments in Debt and Equity Securities

The Duke Energy Registrants classify investments in equity securities as FV-NI and investments in debt securities as AFS. Both categories are recorded at fair value on the Consolidated Balance Sheets. Realized and unrealized gains and losses on securities classified as FV-NI are reported through net income. Unrealized gains and losses for debt securities classified as AFS are included in AOCI until realized, unless it is determined the carrying value of an investment has a credit loss. For certain investments of regulated operations, such as substantially all of the NDTF, realized and unrealized gains and losses (including any credit losses) on debt securities are recorded as a regulatory asset or liability. The credit loss portion of debt securities of nonregulated operations are included in earnings. Investments in debt and equity securities are classified as either current or noncurrent based on management's intent and ability to sell these securities, taking into consideration current market liquidity. See Note 15 for further information.

Goodwill

Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont perform annual goodwill impairment tests as of August 31 each year at the reporting unit level, which is determined to be a business segment or one level below. Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont update these tests between annual tests if events or circumstances occur that would more likely than not reduce the fair value of a reporting unit below its carrying value. See Note 11 for further information.

Intangible Assets

Intangible assets are included in Other in Other Noncurrent Assets on the Consolidated Balance Sheets. Generally, intangible assets are amortized using an amortization method that reflects the pattern in which the economic benefits of the intangible asset are consumed or on a straight-line basis if that pattern is not readily determinable. Amortization of intangibles is reflected in Depreciation and amortization on the Consolidated Statements of Operations. Intangible assets are subject to impairment testing and if impaired, the carrying value is accordingly reduced.

RECs are used to measure compliance with renewable energy standards and are held primarily for consumption. See Note 11 for further information.

Long-Lived Asset Impairments

The Duke Energy Registrants evaluate long-lived assets, excluding goodwill, for impairment when circumstances indicate the carrying value of those assets may not be recoverable. An impairment exists when a long-lived asset's carrying value exceeds the estimated undiscounted cash flows expected to result from the use and eventual disposition of the asset. The estimated cash flows may be based on alternative expected outcomes that are probability weighted. If the carrying value of the long-lived asset is not recoverable based on these estimated future undiscounted cash flows, the carrying value of the asset is written down to its then current estimated fair value and an impairment charge is recognized.

The Duke Energy Registrants assess fair value of long-lived assets using various methods, including recent comparable third-party sales, internally developed discounted cash flow analysis and analysis from outside advisors. Triggering events to reassess cash flows may include, but are not limited to, significant changes in commodity prices, the condition of an asset or management's interest in selling the asset.

Equity Method Investment Impairments

Investments in affiliates that are not controlled by Duke Energy, but over which it has significant influence, are accounted for using the equity method. Equity method investments are assessed for impairment whenever events or changes in circumstances indicate that the carrying amount of the investment may not be recoverable. If the decline in value is considered to be other than temporary, the investment is written down to its estimated fair value, which establishes a new cost basis in the investment.

Impairment assessments use a discounted cash flow income approach and include consideration of the severity and duration of any decline in the fair value of the investments. The estimated cash flows may be based on alternative expected outcomes that are probability weighted. Key inputs that involve estimates and significant management judgment include cash flow projections, selection of a discount rate, probability weighting of potential outcomes, and whether any decline in value is considered temporary.

FINANCIAL STATEMENTS

SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Property, Plant and Equipment

Property, plant and equipment are stated at the lower of depreciated historical cost net of any disallowances or fair value, if impaired. The Duke Energy Registrants capitalize all construction-related direct labor and material costs, as well as indirect construction costs such as general engineering, taxes and financing costs. See "Allowance for Funds Used During Construction and Interest Capitalized" for information on capitalized financing costs. Costs of renewals and betterments that extend the useful life of property, plant and equipment are also capitalized. The cost of repairs, replacements and major maintenance projects, which do not extend the useful life or increase the expected output of the asset, are expensed as incurred. Depreciation is generally computed over the estimated useful life of the asset using the composite straight-line method. Depreciation studies are conducted periodically to update composite rates and are approved by state utility commissions and/or the FERC when required. The composite weighted average depreciation rates, excluding nuclear fuel, are included in the table that follows.

	Years Ended December 31,		
	2020	2019	2018
Duke Energy	3.0 %	3.1 %	3.0 %
Duke Energy Carolinas	2.8 %	2.8 %	2.8 %
Progress Energy	3.2 %	3.1 %	2.9 %
Duke Energy Progress	3.1 %	3.1 %	2.9 %
Duke Energy Florida	3.3 %	3.1 %	3.0 %
Duke Energy Ohio	2.9 %	2.6 %	2.8 %
Duke Energy Indiana	3.5 %	3.3 %	3.3 %
Piedmont	2.3 %	2.4 %	2.5 %

In general, when the Duke Energy Registrants retire regulated property, plant and equipment, the original cost plus the cost of retirement, less salvage value and any depreciation already recognized, is charged to accumulated depreciation. However, when it becomes probable the asset will be retired substantially in advance of its original expected useful life or is abandoned, the cost of the asset and the corresponding accumulated depreciation is recognized as a separate asset. If the asset is still in operation, the net amount is classified as Generation facilities to be retired, net on the Consolidated Balance Sheets. If the asset is no longer operating, the net amount is classified in Regulatory assets on the Consolidated Balance Sheets if deemed recoverable (see discussion of long-lived asset impairments above). The carrying value of the asset is based on historical cost if the Duke Energy Registrants are allowed to recover the remaining net book value and a return equal to at least the incremental borrowing rate. If not, an impairment is recognized to the extent the net book value of the asset exceeds the present value of future revenues discounted at the incremental borrowing rate.

When the Duke Energy Registrants sell entire regulated operating units, or retire or sell nonregulated properties, the original cost and accumulated depreciation and amortization balances are removed from Property, Plant and Equipment on the Consolidated Balance Sheets. Any gain or loss is recorded in earnings, unless otherwise required by the applicable regulatory body. See Note 10 for additional information.

Leases

Duke Energy determines if an arrangement is a lease at contract inception based on whether the arrangement involves the use of a physically distinct identified asset and whether Duke Energy has the right to obtain substantially all of the economic benefits from the use of the asset throughout the period as well as the right to direct the use of the asset. As a policy election, Duke Energy does not evaluate arrangements with initial contract terms of less than one year as leases.

Operating leases are included in Operating lease ROU assets, net, Other current liabilities and Operating lease liabilities on the Consolidated Balance Sheets. Finance leases are included in Property, plant and equipment, Current maturities of long-term debt and Long-Term Debt on the Consolidated Balance Sheets.

For lessee and lessor arrangements, Duke Energy has elected a policy to not separate lease and non-lease components for all asset classes. For lessor arrangements, lease and non-lease components are only combined under one arrangement and accounted for under the lease accounting framework if the non-lease components are not the predominant component of the arrangement and the lease component would be classified as an operating lease.

Nuclear Fuel

Nuclear fuel is classified as Property, Plant and Equipment on the Consolidated Balance Sheets.

Nuclear fuel in the front-end fuel processing phase is considered work in progress and not amortized until placed in service. Amortization of nuclear fuel is included within Fuel used in electric generation and purchased power on the Consolidated Statements of Operations. Amortization is recorded using the units-of-production method.

Allowance for Funds Used During Construction and Interest Capitalized

For regulated operations, the debt and equity costs of financing the construction of property, plant and equipment are reflected as AFUDC and capitalized as a component of the cost of property, plant and equipment. AFUDC equity is reported on the Consolidated Statements of Operations as non-cash income in Other income and expenses, net. AFUDC debt is reported as a non-cash offset to Interest Expense. After construction is completed, the Duke Energy Registrants are permitted to recover these costs through their inclusion in rate base and the corresponding subsequent depreciation or amortization of those regulated assets.

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SEP 13 2021

FINANCIAL STATEMENTS

SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

AFUDC equity, a permanent difference for income taxes, reduces the ETR when capitalized and increases the ETR when depreciated or amortized. See Note 23 for additional information.

For nonregulated operations, interest is capitalized during the construction phase with an offsetting non-cash credit to Interest Expense on the Consolidated Statements of Operations.

Asset Retirement Obligations

AROs are recognized for legal obligations associated with the retirement of property, plant and equipment. Substantially all AROs are related to regulated operations. When recording an ARO, the present value of the projected liability is recognized in the period in which it is incurred, if a reasonable estimate of fair value can be made. The liability is accreted over time. For operating plants, the present value of the liability is added to the cost of the associated asset and depreciated over the remaining life of the asset. For retired plants, the present value of the liability is recorded as a regulatory asset unless determined not to be probable of recovery.

The present value of the initial obligation and subsequent updates are based on discounted cash flows, which include estimates regarding timing of future cash flows, selection of discount rates and cost escalation rates, among other factors. These estimates are subject to change. Depreciation expense is adjusted prospectively for any changes to the carrying amount of the associated asset. The Duke Energy Registrants receive amounts to fund the cost of the ARO for regulated operations through a combination of regulated revenues and earnings on the NDTF. As a result, amounts recovered in regulated revenues, earnings on the NDTF, accretion expense and depreciation of the associated asset are netted and deferred as a regulatory asset or liability.

Accounts Payable

During 2020, Duke Energy established a supply chain finance program (the "program") with a global financial institution. The program is voluntary and allows Duke Energy suppliers, at their sole discretion, to sell their receivables from Duke Energy to the financial institution at a rate that leverages Duke Energy's credit rating and, which may result in favorable terms compared to the rate available to the supplier on their own credit rating. Suppliers participating in the program, determine at their sole discretion which invoices they will sell to the financial institution. Suppliers' decisions on which invoices are sold do not impact Duke Energy's payment terms, which are based on commercial terms negotiated between Duke Energy and the supplier regardless of program participation. The commercial terms negotiated between Duke Energy and its suppliers are consistent regardless of whether the supplier elects to participate in the program. Duke Energy does not issue any guarantees with respect to the program and does not participate in negotiations between suppliers and the financial institution. Duke Energy does not have an economic interest in the supplier's decision to participate in the program and receives no interest, fees or other benefit from the financial institution based on supplier participation in the program.

At December 31, 2020, \$15 million, \$1 million and \$14 million of the outstanding Accounts payable balance for Duke Energy, Duke Energy Ohio and Piedmont, respectively, was sold to the financial institution by our suppliers. Suppliers invoices sold to the financial institution under the program totaled \$45 million, \$9 million and \$36 million for the year ended December 31, 2020, for Duke Energy, Duke Energy Ohio and Piedmont, respectively. All activity related to amounts due to suppliers who elected to participate in the program are included within Net cash provided by operating activities on the Consolidated Statements of Cash Flows.

Revenue Recognition

Duke Energy recognizes revenue as customers obtain control of promised goods and services in an amount that reflects consideration expected in exchange for those goods or services. Generally, the delivery of electricity and natural gas results in the transfer of control to customers at the time the commodity is delivered and the amount of revenue recognized is equal to the amount billed to each customer, including estimated volumes delivered when billings have not yet occurred. See Note 18 for further information.

Derivatives and Hedging

Derivative and non-derivative instruments may be used in connection with commodity price and interest rate activities, including swaps, futures, forwards and options. All derivative instruments, except those that qualify for the NPNS exception, are recorded on the Consolidated Balance Sheets at fair value. Qualifying derivative instruments may be designated as either cash flow hedges or fair value hedges. Other derivative instruments (undesignated contracts) either have not been designated or do not qualify as hedges. The effective portion of the change in the fair value of cash flow hedges is recorded in AOCI. The effective portion of the change in the fair value of a fair value hedge is offset in net income by changes in the hedged item. For activity subject to regulatory accounting, gains and losses on derivative contracts are reflected as regulatory assets or liabilities and not as other comprehensive income or current period income. As a result, changes in fair value of these derivatives have no immediate earnings impact.

Formal documentation, including transaction type and risk management strategy, is maintained for all contracts accounted for as a hedge. At inception and at least every three months thereafter, the hedge contract is assessed to see if it is highly effective in offsetting changes in cash flows or fair values of hedged items.

See Note 14 for further information.

Captive Insurance Reserves

Duke Energy has captive insurance subsidiaries that provide coverage, on an indemnity basis, to the Subsidiary Registrants as well as certain third parties, on a limited basis, for financial losses, primarily related to property, workers' compensation and general liability. Liabilities include provisions for estimated losses incurred but not reported (IBNR), as well as estimated provisions for known claims. IBNR reserve estimates are primarily based upon historical loss experience, industry data and other actuarial assumptions. Reserve estimates are adjusted in future periods as actual losses differ from experience.

FINANCIAL STATEMENTS

SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Duke Energy, through its captive insurance entities, also has reinsurance coverage with third parties for certain losses above a per occurrence and/or aggregate retention. Receivables for reinsurance coverage are recognized when realization is deemed probable.

Unamortized Debt Premium, Discount and Expense

Premiums, discounts and expenses incurred with the issuance of outstanding long-term debt are amortized over the term of the debt issue. The gain or loss on extinguishment associated with refinancing higher-cost debt obligations in the regulated operations is amortized over the remaining life of the original instrument. Amortization expense is recorded as Interest Expense in the Consolidated Statements of Operations and is reflected as Depreciation, amortization and accretion within Net cash provided by operating activities on the Consolidated Statements of Cash Flows.

Premiums, discounts and expenses are presented as an adjustment to the carrying value of the debt amount and included in Long-Term Debt on the Consolidated Balance Sheets presented.

Preferred Stock

Preferred stock is reviewed to determine the appropriate balance sheet classification and embedded features, such as call options, are evaluated to determine if they should be bifurcated and accounted for separately. Costs directly related to the issuance of preferred stock is recorded as a reduction of the proceeds received. The liability for the dividend is recognized when declared. The accumulated dividends on the cumulative preferred stock is recognized to net income available to Duke Energy Corporation in the EPS calculation. See Note 19 for further information.

Loss Contingencies and Environmental Liabilities

Contingent losses are recorded when it is probable a loss has occurred and can be reasonably estimated. When a range of the probable loss exists and no amount within the range is a better estimate than any other amount, the minimum amount in the range is recorded. Unless otherwise required by GAAP, legal fees are expensed as incurred.

Environmental liabilities are recorded on an undiscounted basis when environmental remediation or other liabilities become probable and can be reasonably estimated. Environmental expenditures related to past operations that do not generate current or future revenues are expensed. Environmental expenditures related to operations that generate current or future revenues are expensed or capitalized, as appropriate. Certain environmental expenditures receive regulatory accounting treatment and are recorded as regulatory assets.

See Notes 3 and 4 for further information.

Pension and Other Post-Retirement Benefit Plans

Duke Energy maintains qualified, non-qualified and other post-retirement benefit plans. Eligible employees of the Subsidiary Registrants participate in the respective qualified, non-qualified and other post-retirement benefit plans and the Subsidiary Registrants are allocated their proportionate share of benefit costs. See Note 22 for further information, including significant accounting policies associated with these plans.

Severance and Special Termination Benefits

Duke Energy has severance plans under which in general, the longer a terminated employee worked prior to termination the greater the amount of severance benefits. A liability for involuntary severance is recorded once an involuntary severance plan is committed to by management if involuntary severances are probable and can be reasonably estimated. For involuntary severance benefits incremental to its ongoing severance plan benefits, the fair value of the obligation is expensed at the communication date if there are no future service requirements or over the required future service period. Duke Energy also offers special termination benefits under voluntary severance programs. Special termination benefits are recorded immediately upon employee acceptance absent a significant retention period. Otherwise, the cost is recorded over the remaining service period. Employee acceptance of voluntary severance benefits is determined by management based on the facts and circumstances of the benefits being offered. See Note 20 for further information.

Guarantees

If necessary, liabilities are recognized at the time of issuance or material modification of a guarantee for the estimated fair value of the obligation it assumes. Fair value is estimated using a probability weighted approach. The obligation is reduced over the term of the guarantee or related contract in a systematic and rational method as risk is reduced. Duke Energy recognizes a liability for the best estimate of its loss due to the nonperformance of the guaranteed party. This liability is recognized at the inception of a guarantee and is updated periodically. See Note 7 for further information.

Stock-Based Compensation

Stock-based compensation represents costs related to stock-based awards granted to employees and Board of Directors members. Duke Energy recognizes stock-based compensation based upon the estimated fair value of awards, net of estimated forfeitures at the date of issuance. The recognition period for these costs begins at either the applicable service inception date or grant date and continues throughout the requisite service period. Compensation cost is recognized as expense or capitalized as a component of property, plant and equipment. See Note 21 for further information.

FINANCIAL STATEMENTS

SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Income Taxes

Duke Energy and its subsidiaries file a consolidated federal income tax return and other state and foreign jurisdictional returns. The Subsidiary Registrants are parties to a tax-sharing agreement with Duke Energy. Income taxes recorded represent amounts the Subsidiary Registrants would incur as separate C-Corporations. Deferred income taxes have been provided for temporary differences between GAAP and tax bases of assets and liabilities because the differences create taxable or tax-deductible amounts for future periods. ITCs associated with regulated operations are deferred and amortized as a reduction of income tax expense over the estimated useful lives of the related properties. For ITCs associated with nonregulated operations see "Accounting for Renewable Energy Tax Credits."

Accumulated deferred income taxes are valued using the enacted tax rate expected to apply to taxable income in the periods in which the deferred tax asset or liability is expected to be settled or realized. In the event of a change in tax rates, deferred tax assets and liabilities are remeasured as of the enactment date of the new rate. To the extent that the change in the value of the deferred tax represents an obligation to customers, the impact of the remeasurement is deferred to a regulatory liability. Remaining impacts are recorded in income from continuing operations. Duke Energy's results of operations could be impacted if the estimate of the tax effect of reversing temporary differences is not reflective of actual outcomes, is modified to reflect new developments or interpretations of the tax law, revised to incorporate new accounting principles, or changes in the expected timing or manner of a reversal.

Tax-related interest and penalties are recorded in Interest Expense and Other Income and Expenses, net in the Consolidated Statements of Operations.

See Note 23 for further information.

Accounting for Renewable Energy Tax Credits

When Duke Energy receives ITCs on wind or solar facilities associated with its nonregulated operations, it reduces the basis of the property recorded on the Consolidated Balance Sheets by the amount of the ITC and, therefore, the ITC benefit is ultimately recognized in the statement of operations through reduced depreciation expense. Additionally, certain tax credits and government grants result in an initial tax depreciable base in excess of the book carrying value by an amount equal to one half of the ITC. Deferred tax benefits are recorded as a reduction to income tax expense in the period that the basis difference is created.

When Duke Energy receives ITCs on wind or solar facilities associated with its regulated operations, the ITC is deferred and amortized as a reduction of income tax expense over the estimated useful lives of the related properties.

Duke Energy receives PTCs on wind facilities that are recognized as electricity is produced and records related amounts as a reduction of income tax expense.

Excise Taxes

Certain excise taxes levied by state or local governments are required to be paid even if not collected from the customer. These taxes are recognized on a gross basis. Taxes for which Duke Energy operates merely as a collection agent for the state and local government are accounted for on a net basis. Excise taxes accounted for on a gross basis within both Operating Revenues and Property and other taxes in the Consolidated Statements of Operations were as follows.

(in millions)	Years Ended December 31,		
	2020	2019	2018
Duke Energy	\$ 415	\$ 421	\$ 405
Duke Energy Carolinas	43	39	35
Progress Energy	249	256	241
Duke Energy Progress	26	21	19
Duke Energy Florida	223	235	222
Duke Energy Ohio	96	101	105
Duke Energy Indiana	25	23	22
Piedmont	2	2	2

Dividend Restrictions and Unappropriated Retained Earnings

Duke Energy does not have any current legal, regulatory or other restrictions on paying common stock dividends to shareholders. However, if Duke Energy were to defer dividend payments on the preferred stock, the declaration of common stock dividends would be prohibited. See Note 19 for more information. Additionally, as further described in Note 3, Duke Energy Carolinas, Duke Energy Progress, Duke Energy Ohio, Duke Energy Indiana and Piedmont have restrictions on paying dividends or otherwise advancing funds to Duke Energy due to conditions established by regulators in conjunction with merger transaction approvals. At December 31, 2020, and 2019, an insignificant amount of Duke Energy's consolidated Retained earnings balance represents undistributed earnings of equity method investments.

New Accounting Standards

The following new accounting standard was adopted by Duke Energy Registrants in 2020.

Credit Losses. In June 2016, the FASB issued new accounting guidance for credit losses. Duke Energy adopted the new accounting guidance for credit losses effective January 1, 2020, using the modified retrospective method of adoption, which does not require restatement of prior year results. Duke Energy did not adopt any practical expedients.

FINANCIAL STATEMENTS

SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Duke Energy recognizes allowances for credit losses based on management's estimate of losses expected to be incurred over the lives of certain assets or guarantees. Management monitors credit quality, changes in expected credit losses and the appropriateness of the allowance for credit losses on a forward-looking basis. Management reviews the risk of loss periodically as part of the existing assessment of collectability of receivables.

Duke Energy reviews the credit quality of its counterparties as part of its regular risk management process and requires credit enhancements, such as deposits or letters of credit, as appropriate and as allowed by regulators.

Duke Energy recorded cumulative effects of changes in accounting principles related to the adoption of new credit loss standard, for allowances and credit losses of trade and other receivables, insurance receivables and financial guarantees. These amounts are included in the Condensed Consolidated Balance Sheets in Receivables, Receivables of VIEs, Other Noncurrent Assets and Other Noncurrent Liabilities. See Notes 7 and 18 for more information.

Duke Energy recorded an adjustment for the cumulative effect of a change in accounting principle due to the adoption of this standard on January 1, 2020, as shown in the table below:

(in millions)	December 31, 2020					
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Piedmont
Total pretax impact to Retained Earnings	\$ 120	\$ 16	\$ 2	\$ 1	\$ 1	\$ 1

The following new accounting standard has been issued but not yet adopted by the Duke Energy Registrants as of December 31, 2020.

Reference Rate Reform. In March 2020, the FASB issued new accounting guidance for reference rate reform. This guidance is elective and provides expedients to facilitate financial reporting for the anticipated transition away from the London Inter-bank Offered Rate (LIBOR) and other interbank reference rates by the end of 2021. The optional expedients are effective for modification of existing contracts or new arrangements executed between March 12, 2020, through December 31, 2022.

Duke Energy has variable-rate debt and manages interest rate risk by entering into financial contracts including interest rate swaps that are generally indexed to LIBOR. Impacted financial arrangements extending beyond 2021 may require contractual amendment or termination to fully adapt to a post-LIBOR environment. Duke Energy is assessing these financial arrangements and is evaluating the use of optional expedients outlined in the new accounting guidance. Alternative index provisions are also being assessed and incorporated into new financial arrangements that extend beyond 2021. The full outcome of the transition away from LIBOR cannot be determined at this time, but is not expected to have a material impact on the financial statements.

2. BUSINESS SEGMENTS

Reportable segments are determined based on information used by the chief operating decision-maker in deciding how to allocate resources and evaluate the performance of the business. Duke Energy evaluates segment performance based on segment income. Segment income is defined as income from continuing operations net of income attributable to noncontrolling interests and preferred stock dividends. Segment income, as discussed below, includes intercompany revenues and expenses that are eliminated on the Consolidated Financial Statements. Certain governance costs are allocated to each segment. In addition, direct interest expense and income taxes are included in segment income.

Products and services are sold between affiliate companies and reportable segments of Duke Energy at cost. Segment assets as presented in the tables that follow exclude all intercompany assets.

Duke Energy

Duke Energy's segment structure includes the following segments: Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables.

The Electric Utilities and Infrastructure segment includes Duke Energy's regulated electric utilities in the Carolinas, Florida and the Midwest. The regulated electric utilities conduct operations through the Subsidiary Registrants that are substantially all regulated and, accordingly, qualify for regulatory accounting treatment. Electric Utilities and Infrastructure also includes Duke Energy's electric transmission infrastructure investments.

The Gas Utilities and Infrastructure segment includes Piedmont, Duke Energy's natural gas local distribution companies in Ohio and Kentucky, and Duke Energy's natural gas storage and midstream pipeline investments. Gas Utilities and Infrastructure's operations are substantially all regulated and, accordingly, qualify for regulatory accounting treatment.

The Commercial Renewables segment is primarily comprised of nonregulated utility-scale wind and solar generation assets located throughout the U.S.

The remainder of Duke Energy's operations is presented as Other, which is primarily comprised of interest expense on holding company debt, unallocated corporate costs and Duke Energy's wholly owned captive insurance company, Bison. Other also includes Duke Energy's interest in NMC. See Note 12 for additional information on the investment in NMC.

FINANCIAL STATEMENTS

BUSINESS SEGMENTS

Business segment information is presented in the following tables. Segment assets presented exclude intercompany assets.

(in millions)	Year Ended December 31, 2020						
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total Reportable Segments	Other	Eliminations	Total
Unaffiliated Revenues	\$ 21,687	\$ 1,653	\$ 502	\$ 23,842	\$ 26	\$ —	\$ 23,868
Intersegment Revenues	33	95	—	128	71	(199)	—
Total Revenues	\$ 21,720	\$ 1,748	\$ 502	\$ 23,970	\$ 97	\$ (199)	\$ 23,868
Interest Expense	\$ 1,320	\$ 135	\$ 66	\$ 1,521	\$ 657	\$ (16)	\$ 2,162
Depreciation and amortization	4,068	258	199	4,525	209	(29)	4,705
Equity in earnings (losses) of unconsolidated affiliates	(1)	(2,017)	—	(2,018)	13	—	(2,005)
Income tax expense (benefit)	340	(349)	(65)	(74)	(162)	—	(236)
Segment income (loss) ^{(a)(b)(c)}	2,669	(1,266)	286	1,689	(426)	—	1,263
Less noncontrolling interest							295
Add back preferred stock dividend							107
Income from discontinued operations, net of tax							7
Net income							\$ 1,082
Capital investments expenditures and acquisitions	\$ 7,629	\$ 1,309	\$ 1,219	\$ 10,157	\$ 264	\$ —	\$ 10,421
Segment assets	138,225	13,849	6,716	158,790	3,598	—	162,388

- (a) Electric Utilities and Infrastructure includes \$948 million of Impairment charges and a reversal of \$152 million included in Regulated electric operating revenue related to the CCR Settlement Agreement filed with the NCUC. Additionally, Electric Utilities and Infrastructure includes \$19 million of Impairment charges related to the Clemson University Combined Heat and Power Plant, \$5 million of Impairment charges related to the gas pipeline assets and \$16 million of shareholder contributions within Operations, maintenance and other related to Duke Energy Carolinas' and Duke Energy Progress' 2019 North Carolina rate cases. See Note 3 for additional information.
- (b) Gas Utilities and Infrastructure includes \$2.1 billion recorded within Equity in (losses) earnings of unconsolidated affiliates and \$7 million of Impairment charges related to gas pipeline investments. See Notes 3 and 12 for additional information.
- (c) Other includes a \$98 million reversal of 2018 severance costs due to a partial settlement in the Duke Energy Carolinas' 2019 North Carolina rate case. See Note 3 and 20 for additional information.

(in millions)	Year Ended December 31, 2019						
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total Reportable Segments	Other	Eliminations	Total
Unaffiliated Revenues	\$ 22,798	\$ 1,770	\$ 487	\$ 25,055	\$ 24	\$ —	\$ 25,079
Intersegment Revenues	33	96	—	129	71	(200)	—
Total Revenues	\$ 22,831	\$ 1,866	\$ 487	\$ 25,184	\$ 95	\$ (200)	\$ 25,079
Interest Expense	\$ 1,345	\$ 117	\$ 95	\$ 1,557	\$ 705	\$ (58)	\$ 2,204
Depreciation and amortization	3,951	256	168	4,375	178	(5)	4,548
Equity in earnings (losses) of unconsolidated affiliates	9	114	(4)	119	43	—	162
Income tax expense (benefit)	785	22	(115)	692	(173)	—	519
Segment income (loss) ^{(a)(b)}	3,536	432	198	4,166	(452)	—	3,714
Less noncontrolling interest							177
Add back preferred stock dividend							41
Loss from discontinued operations, net of tax							(7)
Net income							\$ 3,571
Capital investments expenditures and acquisitions	\$ 8,263	\$ 1,539	\$ 1,423	\$ 11,225	\$ 221	\$ —	\$ 11,446
Segment assets	135,561	13,921	6,020	155,502	3,148	188	158,838

- (a) Electric Utilities and Infrastructure includes a \$27 million reduction of a prior year impairment at Citrus County CC related to the plant's cost cap. See Note 3 for additional information.
- (b) Gas Utilities and Infrastructure includes an after-tax impairment charge of \$19 million for the remaining investment in Constitution. See Note 12 for additional information.

FINANCIAL STATEMENTS

BUSINESS SEGMENTS

(in millions)	Year Ended December 31, 2018						
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total Reportable Segments	Other	Eliminations	Total
Unaffiliated Revenues	\$ 22,242	\$ 1,783	\$ 477	\$ 24,502	\$ 19	\$ —	\$ 24,521
Intersegment Revenues	31	98	—	129	70	(199)	—
Total Revenues	\$ 22,273	\$ 1,881	\$ 477	\$ 24,631	\$ 89	\$ (199)	\$ 24,521
Interest Expense	\$ 1,288	\$ 106	\$ 88	\$ 1,482	\$ 657	\$ (45)	\$ 2,094
Depreciation and amortization	3,523	245	155	3,923	152	(1)	4,074
Equity in earnings (losses) of unconsolidated affiliates	5	27	(1)	31	52	—	83
Income tax expense (benefit) ^(a)	799	78	(147)	730	(282)	—	448
Segment income (loss) ^{(b)(c)(d)(e)}	3,058	274	9	3,341	(694)	—	2,647
Less noncontrolling interest							22
Income from discontinued operations, net of tax							19
Net income							\$ 2,644
Capital investments expenditures and acquisitions	\$ 8,086	\$ 1,133	\$ 193	\$ 9,412	\$ 256	\$ —	\$ 9,668
Segment assets	125,364	12,361	4,204	141,929	3,275	188	145,392

- (a) All segments include adjustments to the December 31, 2017, estimate of the income tax effects of the Tax Act. Electric Utilities and Infrastructure includes a \$24 million expense, Gas Utilities and Infrastructure includes a \$1 million expense, Commercial Renewables includes a \$3 million benefit and Other includes a \$2 million benefit. See Note 23 for additional information.
- (b) Electric Utilities and Infrastructure includes after-tax regulatory and legislative impairment charges of \$202 million related to rate case orders, settlements or other actions of regulators or legislative bodies and an after-tax impairment charge of \$46 million related to the Citrus County CC at Duke Energy Florida. See Note 3 for additional information.
- (c) Gas Utilities and Infrastructure includes an after-tax impairment charge of \$42 million for the investment in Constitution. See Note 12 for additional information.
- (d) Commercial Renewables includes an impairment charge of \$91 million, net of \$2 million Noncontrolling interests, related to goodwill. See Note 11 for additional information.
- (e) Other includes \$65 million of after-tax costs to achieve the Piedmont merger, \$144 million of after-tax severance charges related to a companywide initiative and an \$82 million after-tax loss on the sale of Beckjord described below. For additional information, see Note 1 for the Piedmont merger and Note 20 for severance charges.

In February 2018, Duke Energy sold Beckjord, a nonregulated facility retired during 2014, and recorded a pretax loss of \$106 million within Gains (Losses) on Sales of Other Assets and Other, net and \$1 million within Operation, maintenance and other on Duke Energy's Consolidated Statements of Operations for the year ended December 31, 2018. The sale included the transfer of coal ash basins and other real property and indemnification from any and all potential future claims related to the property, whether arising under environmental laws or otherwise.

Geographical Information

Substantially all assets and revenues from continuing operations are within the U.S.

Major Customers

For the year ended December 31, 2020, revenues from one customer of Duke Energy Progress are \$553 million. Duke Energy Progress has one reportable segment, Electric Utilities and Infrastructure. No other Subsidiary Registrant has an individual customer representing more than 10% of its revenues.

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FINANCIAL STATEMENTS

BUSINESS SEGMENTS

Products and Services

The following table summarizes revenues of the reportable segments by type.

(in millions)	Retail Electric	Wholesale Electric	Retail Natural Gas	Other	Total Revenues
2020					
Electric Utilities and Infrastructure	\$ 18,898	\$ 1,878	\$ —	\$ 944	\$ 21,720
Gas Utilities and Infrastructure	—	—	1,691	57	1,748
Commercial Renewables	—	434	—	68	502
Total Reportable Segments	\$ 18,898	\$ 2,312	\$ 1,691	\$ 1,069	\$ 23,970
2019					
Electric Utilities and Infrastructure	\$ 19,745	\$ 2,231	\$ —	\$ 855	\$ 22,831
Gas Utilities and Infrastructure	—	—	1,782	84	1,866
Commercial Renewables	—	389	—	98	487
Total Reportable Segments	\$ 19,745	\$ 2,620	\$ 1,782	\$ 1,037	\$ 25,184
2018					
Electric Utilities and Infrastructure	\$ 19,013	\$ 2,345	\$ —	\$ 915	\$ 22,273
Gas Utilities and Infrastructure	—	—	1,817	64	1,881
Commercial Renewables	—	375	—	102	477
Total Reportable Segments	\$ 19,013	\$ 2,720	\$ 1,817	\$ 1,081	\$ 24,631

Duke Energy Ohio

Duke Energy Ohio has two reportable segments, Electric Utilities and Infrastructure and Gas Utilities and Infrastructure.

Electric Utilities and Infrastructure transmits and distributes electricity in portions of Ohio and generates, distributes and sells electricity in portions of Northern Kentucky. Gas Utilities and Infrastructure transports and sells natural gas in portions of Ohio and Northern Kentucky. Both reportable segments conduct operations primarily through Duke Energy Ohio and its wholly owned subsidiary, Duke Energy Kentucky. The remainder of Duke Energy Ohio's operations is presented as Other.

All Duke Energy Ohio assets and revenues from continuing operations are within the U.S.

(in millions)	Year Ended December 31, 2020					
	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Total Reportable Segments	Other	Eliminations	Total
Total revenues	\$ 1,405	\$ 453	\$ 1,858	\$ —	\$ —	\$ 1,858
Interest expense	\$ 85	\$ 17	\$ 102	\$ —	\$ —	\$ 102
Depreciation and amortization	200	78	278	—	—	278
Income tax expense (benefit)	19	26	45	(2)	—	43
Segment income (loss)/Net income	162	96	258	(6)	—	252
Capital expenditures	\$ 548	\$ 286	\$ 834	\$ —	\$ —	\$ 834
Segment assets	6,615	3,380	9,995	32	(2)	10,025

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SEP 13 2021

FINANCIAL STATEMENTS

BUSINESS SEGMENTS

Year Ended December 31, 2019							
(in millions)	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Total Reportable Segments	Other	Eliminations	Total	
Total revenues	\$ 1,456	\$ 484	\$ 1,940	\$ —	\$ —	\$ 1,940	
Interest expense	\$ 80	\$ 29	\$ 109	\$ —	\$ —	\$ 109	
Depreciation and amortization	182	83	265	—	—	265	
Income tax expense (benefit)	20	21	41	(1)	—	40	
Segment income (loss)	159	85	244	(5)	—	239	
Loss from discontinued operations, net of tax						(1)	
Net income						\$ 238	
Capital expenditures	\$ 680	\$ 272	\$ 952	\$ —	\$ —	\$ 952	
Segment assets	6,188	3,116	9,304	34	—	9,338	

Year Ended December 31, 2018							
(in millions)	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Total Reportable Segments	Other	Eliminations	Total	
Total revenues	\$ 1,450	\$ 506	\$ 1,956	\$ 1	\$ —	\$ 1,957	
Interest expense	\$ 67	\$ 24	\$ 91	\$ 1	\$ —	\$ 92	
Depreciation and amortization	183	85	268	—	—	268	
Income tax expense (benefit)	47	24	71	(28)	—	43	
Segment income (loss)/Net Income ^(a)	186	93	279	(103)	—	176	
Capital expenditures	\$ 655	\$ 172	\$ 827	\$ —	\$ —	\$ 827	
Segment assets	5,643	2,874	8,517	38	—	8,555	

(a) Other includes the loss on the sale of Beckjord, see discussion above.

3. REGULATORY MATTERS

REGULATORY ASSETS AND LIABILITIES

The Duke Energy Registrants record regulatory assets and liabilities that result from the ratemaking process. See Note 1 for further information.

FINANCIAL STATEMENTS

REGULATORY MATTERS

The following tables present the regulatory assets and liabilities recorded on the Consolidated Balance Sheets of Duke Energy and Progress Energy. See separate tables below for balances by individual registrant.

(in millions)	Duke Energy		Progress Energy	
	December 31,		December 31,	
	2020	2019	2020	2019
Regulatory Assets				
AROs – coal ash	\$ 3,408	\$ 4,084	\$ 1,357	\$ 1,843
AROs – nuclear and other	754	739	685	668
Accrued pension and OPEB	2,317	2,391	875	897
Storm cost deferrals	1,102	1,399	893	1,214
Nuclear asset securitized balance, net	991	1,042	991	1,042
Debt fair value adjustment	950	1,019	—	—
Retired generation facilities	417	331	363	266
Post-in-service carrying costs (PISCC) and deferred operating expenses	402	329	51	33
Deferred asset – Lee and Harris COLA	356	388	32	38
Hedge costs deferrals	351	356	148	129
Advanced metering infrastructure (AMI)	311	338	102	114
Demand side management (DSM)/Energy Efficiency (EE)	288	343	241	241
Vacation accrual	221	214	42	41
Deferred fuel and purchased power	213	528	162	305
COR settlement	128	133	33	35
NCEMPA deferrals	124	72	124	72
Nuclear deferral	123	107	35	40
Derivatives – natural gas supply contracts	122	117	—	—
CEP deferral	117	76	—	—
Amounts due from customers	110	36	—	—
Qualifying facility contract buyouts	107	121	107	121
Customer connect project	105	65	55	37
Manufactured gas plant (MGP)	104	102	—	—
ABSAT, coal ash basin closure	98	65	27	15
Deferred pipeline integrity costs	92	79	—	—
Deferred severance charges	86	—	29	—
Incremental COVID-19 expenses	76	—	23	—
Other	589	544	158	141
Total regulatory assets	14,062	15,018	6,533	7,292
Less: current portion	1,641	1,796	758	946
Total noncurrent regulatory assets	\$ 12,421	\$ 13,222	\$ 5,775	\$ 6,346
Regulatory Liabilities				
Net regulatory liability related to income taxes	\$ 7,368	\$ 7,872	\$ 2,411	\$ 2,595
Costs of removal	5,883	5,756	2,666	2,561
AROs – nuclear and other	1,512	1,100	—	—
Provision for rate refunds	344	370	123	123
Accrued pension and OPEB	177	176	—	—
Amounts to be refunded to customers	51	34	—	—
Deferred fuel and purchased power	18	1	—	1
Other	1,053	739	491	275
Total regulatory liabilities	16,406	16,048	5,691	5,555
Less: current portion	1,377	784	640	330
Total noncurrent regulatory liabilities	\$ 15,029	\$ 15,264	\$ 5,051	\$ 5,225

Descriptions of regulatory assets and liabilities summarized in the tables above and below follow. See tables below for recovery and amortization periods at the separate registrants.

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Step 13 2021

FINANCIAL STATEMENTS

REGULATORY MATTERS

AROs – coal ash. Represents deferred depreciation and accretion related to the legal obligation to close ash basins. The costs are deferred until recovery treatment has been determined. See Notes 1 and 9 for additional information.

AROs – nuclear and other. Represents regulatory assets or liabilities, including deferred depreciation and accretion, related to legal obligations associated with the future retirement of property, plant and equipment, excluding amounts related to coal ash. The AROs relate primarily to decommissioning nuclear power facilities. The amounts also include certain deferred gains and losses on NDTF investments. See Notes 1 and 9 for additional information.

Accrued pension and OPEB. Accrued pension and OPEB represent regulatory assets and liabilities related to each of the Duke Energy Registrants' respective shares of unrecognized actuarial gains and losses and unrecognized prior service cost and credit attributable to Duke Energy's pension plans and OPEB plans. The regulatory asset or liability is amortized with the recognition of actuarial gains and losses and prior service cost and credit to net periodic benefit costs for pension and OPEB plans. The accrued pension and OPEB regulatory assets are expected to be recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.

Storm cost deferrals. Represents deferred incremental costs incurred related to major weather-related events.

Nuclear asset securitized balance, net. Represents the balance associated with Crystal River Unit 3 retirement approved for recovery by the FPSC on September 15, 2015, and the upfront financing costs securitized in 2016 with issuance of the associated bonds. The regulatory asset balance is net of the AFUDC equity portion.

Debt fair value adjustment. Purchase accounting adjustments recorded to state the carrying value of Progress Energy and Piedmont at fair value in connection with the 2012 and 2016 mergers, respectively. Amount is amortized over the life of the related debt.

Retired generation facilities. Represents amounts to be recovered for facilities that have been retired and are probable of recovery.

Post-in-service carrying costs (PISCC) and deferred operating expenses. Represents deferred depreciation and operating expenses as well as carrying costs on the portion of capital expenditures placed in service but not yet reflected in retail rates as plant in service.

Deferred asset – Lee and Harris COLA. Represents deferred costs incurred for the canceled Lee and Harris nuclear projects.

Hedge costs deferrals. Amounts relate to unrealized gains and losses on derivatives recorded as a regulatory asset or liability, respectively, until the contracts are settled.

AMI. Represents deferred costs related to the installation of AMI meters and remaining net book value of non-AMI meters to be replaced at Duke Energy Carolinas, net book value of existing meters at Duke Energy Florida, Duke Energy Progress and Duke Energy Ohio and future recovery of net book value of electromechanical meters that have been replaced with AMI meters at Duke Energy Indiana.

DSM/EE. Deferred costs related to various DSM and EE programs recoverable through various mechanisms.

Vacation accrual. Represents vacation entitlement, which is generally recovered in the following year.

Deferred fuel and purchased power. Represents certain energy-related costs that are recoverable or refundable as approved by the applicable regulatory body.

COR settlement. Represents approved COR settlements that are being amortized over the average remaining lives, at the time of approval, of the associated assets.

NCEMPA deferrals. Represents retail allocated cost deferrals and returns associated with the additional ownership interest in assets acquired from NCEMPA in 2015.

Nuclear deferral. Includes amounts related to levelizing nuclear plant outage costs, which allows for the recognition of nuclear outage expenses over the refueling cycle rather than when the outage occurs, resulting in the deferral of operations and maintenance costs associated with refueling.

Derivatives – natural gas supply contracts. Represents costs for certain long-dated, fixed quantity forward gas supply contracts, which are recoverable through PGA clauses.

CEP deferral. Represents deferred depreciation, PISCC and deferred property tax for Duke Energy Ohio Gas capital assets for the Capital Expenditure Program (CEP).

Amounts due from customers. Relates primarily to margin decoupling and IMR recovery mechanisms.

Qualifying facility contract buyouts. Represents termination payments for regulatory recovery through the capacity clause.

Customer connect project. Represents incremental operating expenses and carrying costs on deferred amounts related to the deployment of the new customer information system known as the Customer Connect Project.

MGP. Represents remediation costs incurred at former MGP sites and the deferral of costs to be incurred at Duke Energy Ohio's East End and West End sites.

ABSAT, coal ash basin closure. Represents deferred depreciation and returns associated with Ash Basin Strategic Action Team (ABSAT) capital assets related to converting the ash handling system from wet to dry.

FINANCIAL STATEMENTS

REGULATORY MATTERS

Deferred pipeline integrity costs. Represents pipeline integrity management costs in compliance with federal regulations recovered through a rider mechanism.

Deferred severance charges. Represents costs incurred for employees separation from Duke Energy.

Incremental COVID-19 expenses. Represents incremental costs related to ensuring continuity and quality of service in a safe manner during the COVID-19 pandemic.

Net regulatory liability related to income taxes. Amounts for all registrants include regulatory liabilities related primarily to impacts from the Tax Act. See Note 23 for additional information. Amounts have no immediate impact on rate base as regulatory assets are offset by deferred tax liabilities.

Costs of removal. Represents funds received from customers to cover the future removal of property, plant and equipment from retired or abandoned sites as property is retired. Also includes certain deferred gains on NDTF investments.

Provisions for rate refunds. Represents estimated amounts due to customers based on recording interim rates subject to refund.

Amounts to be refunded to customers. Represents required rate reductions to retail customers by the applicable regulatory body.

RESTRICTIONS ON THE ABILITY OF CERTAIN SUBSIDIARIES TO MAKE DIVIDENDS, ADVANCES AND LOANS TO DUKE ENERGY

As a condition to the approval of merger transactions, the NCUC, PSCSC, PUCO, KPSC and IURC imposed conditions on the ability of Duke Energy Carolinas, Duke Energy Progress, Duke Energy Ohio, Duke Energy Kentucky, Duke Energy Indiana and Piedmont to transfer funds to Duke Energy through loans or advances, as well as restricted amounts available to pay dividends to Duke Energy. Certain subsidiaries may transfer funds to the Parent by obtaining approval of the respective state regulatory commissions. These conditions imposed restrictions on the ability of the public utility subsidiaries to pay cash dividends as discussed below.

Duke Energy Progress and Duke Energy Florida also have restrictions imposed by their first mortgage bond indentures, which in certain circumstances, limit their ability to make cash dividends or distributions on common stock. Amounts restricted as a result of these provisions were not material at December 31, 2020.

Duke Energy Indiana has certain dividend restrictions as a result of the agreement entered in January 2021 to sell a minority interest to GIC. Duke Energy Indiana will not declare a dividend prior to the first closing, which is expected to be completed in the second quarter of 2021, and will declare dividends between the first closing and the second closing, which is required to be completed no later than January 2023, in accordance with the sale agreement. See additional information in Note 1.

Additionally, certain other subsidiaries of Duke Energy have restrictions on their ability to dividend, loan or advance funds to Duke Energy due to specific legal or regulatory restrictions, including, but not limited to, minimum working capital and tangible net worth requirements.

The restrictions discussed below were not a material amount of Duke Energy's and Progress Energy's net assets at December 31, 2020.

Duke Energy Carolinas

Duke Energy Carolinas must limit cumulative distributions subsequent to mergers to (i) the amount of retained earnings on the day prior to the closing of the mergers, plus (ii) any future earnings recorded.

Duke Energy Progress

Duke Energy Progress must limit cumulative distributions subsequent to the mergers between Duke Energy and Progress Energy and Duke Energy and Piedmont to (i) the amount of retained earnings on the day prior to the closing of the respective mergers, plus (ii) any future earnings recorded.

Duke Energy Ohio

Duke Energy Ohio will not declare and pay dividends out of capital or unearned surplus without the prior authorization of the PUCO. Duke Energy Ohio received FERC and PUCO approval to pay dividends from its equity accounts that are reflective of the amount that it would have in its retained earnings account had push-down accounting for the Cinergy merger not been applied to Duke Energy Ohio's balance sheet. The conditions include a commitment from Duke Energy Ohio that equity, adjusted to remove the impacts of push-down accounting, will not fall below 30% of total capital.

Duke Energy Kentucky is required to pay dividends solely out of retained earnings and to maintain a minimum of 35% equity in its capital structure.

Duke Energy Indiana

Duke Energy Indiana must limit cumulative distributions subsequent to the merger between Duke Energy and Cinergy to (i) the amount of retained earnings on the day prior to the closing of the merger, plus (ii) any future earnings recorded. In addition, Duke Energy Indiana will not declare and pay dividends out of capital or unearned surplus without prior authorization of the IURC.

Piedmont

Piedmont must limit cumulative distributions subsequent to the acquisition of Piedmont by Duke Energy to (i) the amount of retained earnings on the day prior to the closing of the merger, plus (ii) any future earnings recorded.

FINANCIAL STATEMENTS

REGULATORY MATTERS

RATE-RELATED INFORMATION

The NCUC, PSCSC, FPSC, IURC, PUCO, TPUC and KPSC approve rates for retail electric and natural gas services within their states. The FERC approves rates for electric sales to wholesale customers served under cost-based rates (excluding Ohio and Indiana), as well as sales of transmission service. The FERC also regulates certification and siting of new interstate natural gas pipeline projects.

Duke Energy Carolinas and Duke Energy Progress

2021 Coal Ash Settlement

On January 22, 2021, Duke Energy Carolinas and Duke Energy Progress entered into the Coal Combustion Residuals Settlement Agreement (the "CCR Settlement Agreement") with the North Carolina Public Staff (Public Staff), the North Carolina Attorney General's Office and the Sierra Club (collectively, the "Settling Parties"), which was filed with the NCUC on January 25, 2021. The CCR Settlement Agreement resolves all coal ash prudence and cost recovery issues in connection with 2019 rate cases filed by Duke Energy Carolinas and Duke Energy Progress with the NCUC, as well as the equitable sharing issue on remand from the 2017 Duke Energy Carolinas and Duke Energy Progress North Carolina rate cases as a result of the December 11, 2020, North Carolina Supreme Court opinion. The settlement also provides clarity on coal ash cost recovery in North Carolina for Duke Energy Carolinas and Duke Energy Progress through January 2030 and February 2030 (the "Term"), respectively.

Duke Energy Carolinas and Duke Energy Progress agreed not to seek recovery of approximately \$1 billion of systemwide deferred coal ash expenditures, but will retain the ability to earn a debt and equity return during the amortization period, which shall be five years in the pending 2019 North Carolina rate cases and will be set by the NCUC in future rate case proceedings. The equity return and the amortization period on deferred coal ash costs under the 2017 Duke Energy Carolinas and Duke Energy Progress North Carolina rate cases will remain unaffected. The equity return on deferred coal ash costs under the 2019 North Carolina rate cases and future rate cases in North Carolina will be set at 150 basis points lower than the authorized return on equity then in effect, with a capital structure composed of 48% debt and 52% equity. Duke Energy Carolinas and Duke Energy Progress retain the ability to earn a full WACC return during the deferral period, which is the period from when costs are incurred until they are recovered in rates.

The Settling Parties agreed that execution by Duke Energy Carolinas and Duke Energy Progress of a settlement agreement between themselves and the NCDEQ dated December 31, 2019, (the "DEQ Settlement") and the coal ash management plans included therein or subsequently approved by DEQ are reasonable and prudent. The Settling Parties retain the right to challenge the reasonableness and prudence of actions taken by Duke Energy Carolinas and Duke Energy Progress and costs incurred to implement the scope of work agreed upon in the DEQ Settlement, after February 1, 2020, and March 1, 2020, for Duke Energy Carolinas and Duke Energy Progress, respectively. The Settling Parties further agreed to waive rights through the Term to challenge the reasonableness or prudence of Duke Energy Carolinas' and Duke Energy Progress' historical coal ash management practices, and to waive the right to assert any arguments that future coal ash costs, including financing costs, shall be shared between either company and customers through equitable sharing or any other rate base or return adjustment that shares the revenue requirement burden of coal ash costs not otherwise disallowed due to imprudence.

The Settling Parties agreed to a sharing arrangement for future coal ash insurance litigation proceeds between Duke Energy Carolinas and Duke Energy Progress and North Carolina customers, if achieved.

The settlement is subject to the review and approval of the NCUC. The Settling Parties requested an expedited review by the NCUC and anticipate an order on the pending 2019 North Carolina rate cases for Duke Energy Carolinas and Duke Energy Progress by the second quarter of 2021. On January 29, 2021, Duke Energy Carolinas and Duke Energy Progress filed joint motions with the Settling Parties seeking approval of the CCR Settlement Agreement, along with supporting testimony and exhibits from Duke Energy Carolinas and Duke Energy Progress. On February 5, 2021, the Public Staff filed testimony and exhibits supporting the CCR Settlement Agreement.

As a result of the CCR Settlement Agreement, Duke Energy Carolinas and Duke Energy Progress recorded a pretax charge of approximately \$454 million and \$494 million, respectively, in the fourth quarter of 2020 to Impairment charges and a reversal of approximately \$50 million and \$102 million, respectively, to Regulated electric operating revenues on the respective Consolidated Statements of Operations.

COVID-19 Filings

North Carolina

On March 10, 2020, Governor Roy Cooper declared a state of emergency due to the COVID-19 pandemic. On March 19, 2020, the NCUC issued an order directing that utilities under its jurisdiction suspend disconnections for nonpayment of utility bills during the state of emergency and allow for customers to enter into payment arrangements to pay off arrearages accumulated during the state of emergency after the end of the state of emergency. Additionally, to help mitigate the financial impacts of the COVID-19 pandemic on their customers, on March 19, 2020, Duke Energy Carolinas and Duke Energy Progress filed a request with the NCUC seeking authorization to waive: (1) any late payment charges incurred by a residential or nonresidential customer, effective March 21, 2020; (2) the application of fees for checks returned for insufficient funds for residential and nonresidential customers; (3) the reconnection charge when a residential or nonresidential customer seeks to have service restored for those customers whose service was recently disconnected for nonpayment and to work with customers regarding the other requirements to restore service, including re-establishment of credit; and (4) the fees and charges associated with the use of credit cards or debit cards to pay residential electric utility bills, effective March 21, 2020. The NCUC granted the companies' request on March 20, 2020.

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SEP 13 2021

FINANCIAL STATEMENTS

REGULATORY MATTERS

On July 29, 2020, the NCUC issued its Order Lifting Disconnection Moratorium and Allowing Collection of Arrearages Pursuant to Special Repayment Plans. The order contained the following: (1) public utilities may resume customer disconnections due to nonpayment for bills first rendered on or after September 1, 2020, after appropriate notice; (2) the late fee moratorium will continue through the end of the state of emergency or until further order of the Commission; (3) Duke Energy utilities may reinstate fees for checks returned for insufficient funds as well as transaction fees for use of credit cards or debit cards for bills first rendered on or after September 1, 2020; and (4) no sooner than September 1, 2020, the collection of past-due or delinquent accounts accrued up to and including August 31, 2020, may proceed subject to conditions. Duke Energy Carolinas and Duke Energy Progress resumed normal billing practices as of October 1, 2020, with the exception of the billing of late payment charges. Customers were notified of the resumption of normal billing practices, the option of deferred payment arrangements and where to find assistance, if necessary. Service disconnections for nonpayment for residential customers resumed on November 2, 2020.

Duke Energy Carolinas and Duke Energy Progress filed a joint petition on August 7, 2020, with the NCUC for deferral treatment of incremental costs and waived customer fees due to the COVID-19 pandemic. Comments on the joint petition were filed on November 5, 2020, and reply comments were filed on November 30, 2020. Duke Energy Carolinas and Duke Energy Progress cannot predict the outcome of this matter.

South Carolina

On March 13, 2020, Governor Henry McMaster declared a state of emergency due to the COVID-19 pandemic. The governor also issued a letter on March 14, 2020, to the ORS Executive Director regarding the suspension of disconnection of essential utility services for nonpayment. On March 18, 2020, the PSCSC issued an order approving such waivers, and also approved waivers for regulations related to late fees and reconnect fees. The PSCSC's order also required utilities to track the financial impacts of actions taken pursuant to such waivers for possible reporting to the PSCSC.

On May 13, 2020, the ORS filed a letter with the PSCSC that included a request from Governor McMaster that utilities proceed with developing and implementing plans for phasing in normal business operations. On May 14, 2020, the PSCSC conditionally vacated the regulation waivers regarding termination of service and suspension of disconnect fees. Prior to termination, utilities are to refer past-due customers to local organizations for assistance and/or deferred payment arrangements. Duke Energy Carolinas and Duke Energy Progress filed a report on June 30, 2020, as required by PSCSC order, reporting revenue impact, costs and savings related to COVID-19 to date. On August 14, 2020, Duke Energy Carolinas and Duke Energy Progress filed a joint petition with the PSCSC for approval of an accounting order to defer incremental COVID-19 related costs incurred through June 30, 2020, and for the ongoing months during the duration of the COVID-19 pandemic. The deferral request did not include lost revenues. Updates on cost impacts were filed on September 30, 2020, and included financial impacts through the end of August 2020. On October 16, 2020, the ORS requested the PSCSC delay taking formal action on the deferral request until the ORS and any intervenors complete discovery. The PSCSC issued an order on October 21, 2020, to grant additional time to complete discovery until January 20, 2021, and to establish a procedural schedule. Updates on cost impacts were filed on December 30, 2020, and included financial impacts through November 30, 2020. On January 15, 2021, ORS requested the PSCSC suspend the dates for the ORS report and public hearing. The ORS conferred with the companies regarding the status of the docket, and the parties mutually agreed that recently enacted federal laws addressing COVID-19 aid and recovery should be studied before further action is taken in this docket. On January 27, 2021, the PSCSC voted to grant the ORS request to suspend the virtual public hearing. ORS is to file its report on or before March 29, 2021.

On August 17, 2020, Duke Energy Carolinas and Duke Energy Progress filed an update on their planned return to normal operations during the COVID-19 pandemic. Normal billing practices resumed in South Carolina as of October 1, 2020, and service disconnections for nonpayment resumed on October 12, 2020. Customers were notified of the resumption of normal billing practices, the option of payment arrangements and where to find assistance, if necessary. Duke Energy Carolinas and Duke Energy Progress cannot predict the outcome of this matter.

2020 North Carolina Storm Securitization Filings

On October 26, 2020, Duke Energy Carolinas and Duke Energy Progress filed a joint petition with the NCUC, as agreed to in partial settlements reached in the 2019 North Carolina Rate Cases for Duke Energy Carolinas and Duke Energy Progress, seeking authorization for the financing of the costs of each utility's storm recovery activities required as a result of Hurricane Florence, Hurricane Michael, Hurricane Dorian and Winter Storm Diego. Specifically, Duke Energy Carolinas and Duke Energy Progress requested that the NCUC find that their storm recovery costs and related financing costs are appropriately financed by debt secured by storm recovery property, and that the Commission issue financing orders by which each utility may accomplish such financing using a securitization structure. On January 27, 2021, Duke Energy Carolinas, Duke Energy Progress and the Public Staff filed an Agreement and Stipulation of Partial Settlement, which is subject to review and approval of the NCUC, resolving certain accounting issues, including agreement to support an 18- to 20-year bond period. The total revenue requirement over a proposed 20-year bond period for the storm recovery charges is approximately \$287 million for Duke Energy Carolinas and \$920 million for Duke Energy Progress. A remote evidentiary hearing ended on January 29, 2021, and on February 1, 2021, the NCUC granted a motion by Duke Energy Carolinas and Duke Energy Progress for a temporary 30-day waiver of the 135-day time frame for the NCUC to issue orders on the joint petition, extending the deadline for the NCUC to issue an order to no later than April 9, 2021. Duke Energy Carolinas and Duke Energy Progress cannot predict the outcome of this matter.

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SEP 13 2021

FINANCIAL STATEMENTS

REGULATORY MATTERS

Duke Energy Carolinas

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Carolinas' Consolidated Balance Sheets.

	December 31,		Earns/Pays	Recovery/Refund
(in millions)	2020	2019	a Return	Period Ends
Regulatory Assets ^(a)				
AROs – coal ash	\$ 1,414	\$ 1,696	(h)	(b)
Accrued pension and OPEB ^(c)	427	477	Yes	(i)
Storm cost deferrals	205	178	Yes	(b)
Retired generation facilities ^(c)	11	16	Yes	2023
PISCC ^(c)	32	33	Yes	(b)
Deferred asset – Lee COLA	324	350		(b)
Hedge costs deferrals ^(c)	174	198	Yes	2041
AMI	154	166	Yes	(b)
DSM/EE	46	100	(g)	(g)
Vacation accrual	84	80		2021
Deferred fuel and purchased power	42	222	(e)	2022
COR settlement	95	98	Yes	(b)
Nuclear deferral	88	67		2022
Customer connect project	50	28	Yes	(b)
ABSAT, coal ash basin closure	71	50	Yes	(b)
Deferred severance charges	57	—		2022
Incremental COVID-19 expenses	31	—	Yes	(b)
Other	164	151		(b)
Total regulatory assets	3,469	3,910		
Less: current portion	473	550		
Total noncurrent regulatory assets	\$ 2,996	\$ 3,360		
Regulatory Liabilities ^(a)				
Net regulatory liability related to income taxes ^(d)	\$ 2,874	\$ 3,060		(b)
Costs of removal ^(c)	1,975	1,936	Yes	(f)
AROs – nuclear and other	1,512	1,100		(b)
Provision for rate refunds ^(c)	170	175	Yes	
Accrued pension and OPEB ^(c)	32	39	Yes	(i)
Deferred fuel and purchased power	18	—	(e)	2020
Other	427	368		(b)
Total regulatory liabilities	7,008	6,678		
Less: current portion	473	255		
Total noncurrent regulatory liabilities	\$ 6,535	\$ 6,423		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Included in rate base.
(d) Includes regulatory liabilities related to the change in the federal tax rate as a result of the Tax Act and the change in the North Carolina tax rate, both discussed in Note 23. Portions are included in rate base.
(e) Pays interest on over-recovered costs in North Carolina. Includes certain purchased power costs in North Carolina and South Carolina and costs of distributed energy in South Carolina.
(f) Recovered over the life of the associated assets.
(g) Includes incentives on DSM/EE investments and is recovered through an annual rider mechanism.
(h) Earns a debt and equity return on coal ash expenditures for North Carolina and South Carolina retail customers as permitted by various regulatory orders.
(i) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.

FINANCIAL STATEMENTS

REGULATORY MATTERS

2017 North Carolina Rate Case

On August 25, 2017, Duke Energy Carolinas filed an application with the NCUC for a rate increase for retail customers of approximately \$647 million. On February 28, 2018, Duke Energy Carolinas and the Public Staff filed an Agreement and Stipulation of Partial Settlement resolving certain portions of the proceeding. Terms of the settlement included a return on equity of 9.9% and a capital structure of 52% equity and 48% debt. On June 22, 2018, the NCUC issued an order approving the Stipulation of Partial Settlement and requiring a revenue reduction. As a result of the June 22, 2018, order, Duke Energy Carolinas recorded a pretax charge of approximately \$150 million to Impairment charges and Operation, maintenance and other on the Consolidated Statements of Operations. The charge was primarily related to the denial of a return on the Lee Nuclear Project and the assessment of a \$70 million cost of service penalty by reducing the annual recovery of deferred coal ash costs by \$14 million per year over a five-year recovery period.

The North Carolina Attorney General and other parties separately filed Notices of Appeal to the North Carolina Supreme Court. The North Carolina Supreme Court consolidated the Duke Energy Carolinas and Duke Energy Progress appeals. On December 11, 2020, the North Carolina Supreme Court issued an opinion on the consolidated appeals of the 2018 Duke Energy Carolinas and Duke Energy Progress rate case orders which affirmed, in part, and reversed and remanded, in part, the NCUC's decisions. In the Opinion, the court upheld the NCUC's decision to include coal ash costs in the cost of service, as well as the NCUC's discretion to allow a return on the unamortized balance of coal ash costs. The court also remanded to the NCUC a single issue to consider the assessment of support for the Public Staff's equitable sharing argument. In response to a NCUC order seeking comments on the proposed procedure on remand, on January 11, 2021, Duke Energy Carolinas, Duke Energy Progress, the Public Staff, the North Carolina Attorney General, Sierra Club and Carolina Industrial Group for Fair Utility Rates II and III filed joint comments proposing that the NCUC not hold additional evidentiary hearings, but instead rely upon existing records in the 2017 North Carolina rate cases, or in the alternative the records in the 2019 North Carolina rate cases, in deciding the issue on remand. On January 22, 2021, Duke Energy Carolinas and Duke Energy Progress entered into the CCR Settlement Agreement with the Settling Parties, which was filed with the NCUC on January 25, 2021. For information on a proposed settlement pending before the NCUC, see "2021 Coal Ash Settlement." Duke Energy Carolinas cannot predict the outcome of this matter.

2019 North Carolina Rate Case

On September 30, 2019, Duke Energy Carolinas filed an application with the NCUC for a net rate increase for retail customers of approximately \$291 million, which represented an approximate 6% increase in annual base revenues. The gross rate case revenue increase request was \$445 million, which was offset by an EDIT rider of \$154 million to return to customers North Carolina and federal EDIT resulting from recent reductions in corporate tax rates. The request for a rate increase was driven by major capital investments subsequent to the previous base rate case, coal ash pond closure costs, accelerated coal plant depreciation and deferred 2018 storm costs. Duke Energy Carolinas requested rates be effective no later than August 1, 2020. The NCUC established a procedural schedule with an evidentiary hearing to begin on March 23, 2020. On March 16, 2020, in consideration of public health and safety as a result of the COVID-19 pandemic, Duke Energy Carolinas filed a motion with the NCUC seeking a suspension of the procedural schedule in the rate case, including issuing discovery requests, and postponement of the evidentiary hearing for 60 days. Also on March 16, 2020, the NCUC issued an Order Postponing Hearing and Addressing Procedural Matters, which postponed the evidentiary hearing until further order by the Commission.

On March 25, 2020, Duke Energy Carolinas and the Public Staff filed an Agreement and Stipulation of Partial Settlement, which is subject to review and approval of the NCUC, resolving certain issues in the base rate proceeding. Major components of the settlement included:

- Removal of deferred storm costs from the rate case;
- Filing a petition seeking to securitize the deferred storm costs within 120 days of a commission order in this rate case regarding the reasonableness and prudence of the storm costs;
- Agreement of certain assumptions to demonstrate the quantifiable benefits to customers of a securitization financing; and
- Agreement on certain accounting matters, including recovery of employee incentives, severance, aviation costs and executive compensation.

On May 6, 2020, Duke Energy Carolinas, Duke Energy Progress and the Public Staff filed a joint motion requesting that the NCUC issue an order scheduling one consolidated evidentiary hearing to consider the companies' applications for net rate increases. On June 17, 2020, the NCUC issued an order adopting procedures for the expert witness hearings to take place in three phases: (1) a hearing on issues common to both rate cases conducted remotely; (2) a hearing on Duke Energy Carolinas specific rate case issues, followed immediately by; (3) a hearing on Duke Energy Progress specific rate case issues. On July 24, 2020, Duke Energy Carolinas filed its request for approval of its notice to customers required to implement temporary rates. On July 27, 2020, Duke Energy Carolinas filed a joint motion with Duke Energy Progress and the Public Staff notifying the Commission that the parties reached a joint partial settlement with the Public Staff. Also, on July 27, 2020, Duke Energy Carolinas filed a letter stating that it intended to update its temporary rates calculation to reflect the terms of the partial settlement.

On July 31, 2020, Duke Energy Carolinas and the Public Staff filed a Second Agreement and Stipulation of Partial Settlement (Second Partial Settlement), which is subject to review and approval of the NCUC, resolving certain remaining issues in the base rate proceeding. Major components of the Second Partial Settlement included:

- A return on equity of 9.6% and a capital structure of 52% equity and 48% debt;
- Agreement on amortization over a five-year period for unprotected federal EDIT flowbacks to customers;
- Agreement on the inclusion of plant in service and other revenue requirement updates through May 31, 2020, subject to Public Staff review. Annual revenue requirement associated with the May 31 update is estimated at \$45 million; and
- Settlement to allow the deferral of costs for certain grid projects placed in service between June 1, 2020, and December 31, 2022, totaling \$0.8 billion.

FINANCIAL STATEMENTS

REGULATORY MATTERS

The remaining items litigated at hearing included recovery of deferred coal ash compliance costs that are subject to asset retirement obligation accounting, implementation of new depreciation rates and the amortization period of the loss on the hydro station sale.

On August 4, 2020, Duke Energy Carolinas filed an amended motion for approval of its amended notice to customers, seeking to exercise its statutory right to implement temporary rates subject to refund on or after August 24, 2020. The revenue requirement to be recovered, subject to refund, through the temporary rates is based on and consistent with the base rate component of the Second Partial Settlement with the Public Staff and excludes the items to be litigated noted above. Duke Energy Carolinas will not begin the amortization or implementation of these items until a final order is issued in the rate case and new base rates are implemented. These items will also be excluded when determining whether a refund of amounts collected through these temporary rates is needed. In addition, Duke Energy Carolinas also seeks authorization to place a temporary decrement EDIT Rider into effect, concurrent with the temporary base rate change. The temporary rate changes are not final rates and remain subject to the NCUC's determination of the just and reasonable rates to be charged by Duke Energy Carolinas on a permanent basis. The NCUC approved the August 4, 2020 amended temporary rates motion on August 6, 2020, and temporary rates went into effect on August 24, 2020.

The Duke Energy Carolinas evidentiary hearing concluded on September 18, 2020, and post-hearing filings were made with the NCUC from all parties by November 4, 2020. On January 22, 2021, Duke Energy Carolinas and Duke Energy Progress entered into the CCR Settlement Agreement with the Settling Parties, which was filed with the NCUC on January 25, 2021. Duke Energy Carolinas expects the NCUC to issue an order on its net rate increase by the second quarter of 2021. For information on a proposed settlement pending before the NCUC, see "2021 Coal Ash Settlement." Duke Energy Carolinas cannot predict the outcome of this matter.

2018 South Carolina Rate Case

On November 8, 2018, Duke Energy Carolinas filed an application with the PSCSC for a rate increase for retail customers of approximately \$168 million.

After hearings in March 2019, the PSCSC issued an order on May 21, 2019, which included a return on equity of 9.5% and a capital structure of 53% equity and 47% debt. The order also included the following material components:

- Approval of cancellation of the Lee Nuclear Project, with Duke Energy Carolinas maintaining the Combined Operating License;
- Approval of recovery of \$125 million (South Carolina retail portion) of Lee Nuclear Project development costs (including AFUDC through December 2017) over a 12-year period, but denial of a return on the deferred balance of costs;
- Approval of recovery of \$96 million of coal ash costs over a five-year period with a return at Duke Energy Carolinas' WACC;
- Denial of recovery of \$115 million of certain coal ash costs deemed to be related to the Coal Ash Act and incremental to the federal CCR rule;
- Approval of a \$66 million decrease to base rates to reflect the change in ongoing tax expense, primarily the reduction in the federal income tax rate from 35% to 21%;
- Approval of a \$45 million decrease through the EDIT Rider to return EDIT resulting from the federal tax rate change and deferred revenues since January 2018 related to the change, to be returned in accordance with the Average Rate Assumption Method (ARAM) for protected EDIT, over a 20-year period for unprotected EDIT associated with Property, Plant and Equipment, over a five-year period for unprotected EDIT not associated with Property, Plant and Equipment and over a five-year period for the deferred revenues; and
- Approval of a \$17 million decrease through the EDIT Rider related to reductions in the North Carolina state income tax rate from 6.9% to 2.5% to be returned over a five-year period.

As a result of the order, revised customer rates were effective June 1, 2019. On May 31, 2019, Duke Energy Carolinas filed a Petition for Rehearing or Reconsideration of that order contending substantial rights of Duke Energy Carolinas were prejudiced by unlawful, arbitrary and capricious rulings by the PSCSC on certain issues presented in the proceeding. On June 19, 2019, the PSCSC issued a Directive denying Duke Energy Carolinas' request to rehear or reconsider the Commission's rulings on certain issues presented in the proceeding including coal ash remediation and disposal costs, return on equity and the recovery of a return on deferred operation and maintenance expenses. An order detailing the Commission's decision in the Directive was issued on October 18, 2019. Duke Energy Carolinas filed a notice of appeal on November 15, 2019, with the Supreme Court of South Carolina. On November 20, 2019, the South Carolina Energy Users Committee filed a Notice of Appeal and the ORS filed a Notice of Cross Appeal with the Supreme Court of South Carolina. On February 12, 2020, Duke Energy Carolinas and the ORS filed a joint motion to extend briefing schedule deadlines, which was approved by the Supreme Court of South Carolina on February 20, 2020. On March 10, 2020, the ORS filed a consent motion requesting withdrawal of their appeal, which was granted by the Supreme Court of South Carolina on April 30, 2020. Initial briefs were filed on April 21, 2020, which included the South Carolina Energy User's Committee brief arguing that the PSCSC erred in allowing Duke Energy Carolinas' recovery of costs related to the Lee Nuclear Station. Response briefs were filed on July 6, 2020, and reply briefs were filed on August 11, 2020. Oral arguments have not yet been scheduled by the Supreme Court of South Carolina. Based on legal analysis and the filing of the appeal, Duke Energy Carolinas has not recorded an adjustment for its deferred coal ash costs in this matter. Duke Energy Carolinas cannot predict the outcome of this matter.

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FINANCIAL STATEMENTS

REGULATORY MATTERS

Duke Energy Progress

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Progress' Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2020	2019		
Regulatory Assets^(a)				
AROs – coal ash	\$ 1,347	\$ 1,834	(h)	(b)
AROs – nuclear and other	683	509		(c)
Accrued pension and OPEB	393	423		(k)
Storm cost deferrals ^(d)	785	801	Yes	(b)
Retired generation facilities	189	83	Yes	(b)
PISCC and deferred operating expenses	51	33	Yes	2054
Deferred asset – Harris COLA	32	38		(b)
Hedge costs deferrals	89	85		(b)
AMI	57	61	Yes	(b)
DSM/EE ^(e)	224	216	(i)	(i)
Vacation accrual	42	41		2021
Deferred fuel and purchased power	158	266	(f)	2022
COR settlement	33	35	Yes	(e)
NCEMPA deferrals	124	72	(g)	2042
Nuclear deferral	35	40		2022
Customer connect project	25	17	Yes	(b)
ABSAT, coal ash basin closure	27	15	Yes	(b)
Deferred severance charges	29	—		2022
Incremental COVID-19 expenses	23	—	Yes	(b)
Other	122	109		(b)
Total regulatory assets	4,468	4,678		
Less: current portion	492	526		
Total noncurrent regulatory assets	\$ 3,976	\$ 4,152		
Regulatory Liabilities^(a)				
Net regulatory liability related to income taxes ^(l)	\$ 1,662	\$ 1,802		(b)
Costs of removal	2,666	2,294	Yes	(j)
Provision for rate refunds	123	123	Yes	
Other	473	249		(b)
Total regulatory liabilities	4,924	4,468		
Less: current portion	530	236		
Total noncurrent regulatory liabilities	\$ 4,394	\$ 4,232		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
- (b) The expected recovery or refund period varies or has not been determined.
- (c) Recovery period for costs related to nuclear facilities runs through the decommissioning period of each unit.
- (d) South Carolina storm costs are included in rate base.
- (e) Included in rate base.
- (f) Pays interest on over-recovered costs in North Carolina. Includes certain purchased power costs in North Carolina and South Carolina and costs of distributed energy in South Carolina.
- (g) South Carolina retail allocated costs are earning a return.
- (h) Earns a debt and equity return on coal ash expenditures for North Carolina and South Carolina retail customers as permitted by various regulatory orders.
- (i) Includes incentives on DSM/EE investments and is recovered through an annual rider mechanism.
- (j) Recovered over the life of the associated assets.
- (k) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.
- (l) Includes regulatory liabilities related to the change in the federal tax rate as a result of the Tax Act and the change in the North Carolina tax rate, both discussed in Note 23. Portions are included in rate base.

FINANCIAL STATEMENTS

REGULATORY MATTERS

2017 North Carolina Rate Case

On June 1, 2017, Duke Energy Progress filed an application with the NCUC for a rate increase for retail customers of approximately \$477 million, which was subsequently adjusted to \$420 million. On November 22, 2017, Duke Energy Progress and the Public Staff filed an Agreement and Stipulation of Partial Settlement resolving certain portions of the proceeding. Terms of the settlement included a return on equity of 9.9% and a capital structure of 52% equity and 48% debt. On February 23, 2018, the NCUC issued an order approving the stipulation. The order also impacted certain amounts that were similarly recorded on Duke Energy Carolinas' Consolidated Balance Sheets. As a result of the order, Duke Energy Progress and Duke Energy Carolinas recorded pretax charges of \$68 million and \$14 million, respectively, in the first quarter of 2018 to Impairment charges, Operation, maintenance and other and Interest Expense on the Consolidated Statements of Operations. The Public Staff, the North Carolina Attorney General and the Sierra Club filed notices of appeal to the North Carolina Supreme Court.

The North Carolina Supreme Court consolidated the Duke Energy Carolinas and Duke Energy Progress appeals. On December 11, 2020, the North Carolina Supreme Court issued an opinion on the consolidated appeals of the 2018 Duke Energy Carolinas and Duke Energy Progress rate case orders which affirmed, in part, and reversed and remanded, in part, the NCUC's decisions. In the Opinion, the court upheld the NCUC's decision to include coal ash costs in the cost of service, as well as the NCUC's discretion to allow a return on the unamortized balance of coal ash costs. The court also remanded to the NCUC a single issue to consider the assessment of support for the Public Staff's equitable sharing argument. In response to a NCUC order seeking comments on the proposed procedure on remand, on January 11, 2021, Duke Energy Carolinas, Duke Energy Progress, the Public Staff, the North Carolina Attorney General, Sierra Club and Carolina Industrial Group for Fair Utility Rates II and III filed joint comments proposing that the NCUC not hold additional evidentiary hearings, but instead rely upon existing records in the 2017 North Carolina rate cases or in the alternative the records in the 2019 North Carolina rate cases, in deciding the issue on remand. On January 22, 2021, Duke Energy Progress and Duke Energy Carolinas entered into the CCR Settlement Agreement with the Settling Parties, which was filed with the NCUC on January 25, 2021. For information on the proposed settlement pending before the NCUC, see "2021 Coal Ash Settlement." Duke Energy Progress cannot predict the outcome of this matter.

2019 North Carolina Rate Case

On October 30, 2019, Duke Energy Progress filed an application with the NCUC for a net rate increase for retail customers of approximately \$464 million, which represented an approximate 12.3% increase in annual base revenues. The gross rate case revenue increase request was \$586 million, which was offset by riders of \$122 million, primarily an EDIT rider of \$120 million to return to customers North Carolina and federal EDIT resulting from recent reductions in corporate tax rates. The request for rate increase was driven by major capital investments subsequent to the previous base rate case, coal ash pond closure costs, accelerated coal plant depreciation and deferred 2018 storm costs. Duke Energy Progress seeks to defer and recover incremental Hurricane Dorian storm costs in this proceeding and requests rates be effective no later than September 1, 2020. As a result of the COVID-19 pandemic, on March 24, 2020, the NCUC suspended the procedural schedule and postponed the previously scheduled evidentiary hearing on this matter indefinitely. On April 7, 2020, the NCUC issued an order partially resuming the procedural schedule requiring intervenors to file direct testimony on April 13, 2020. Public Staff filed supplemental direct testimony on April 23, 2020. Duke Energy Progress filed rebuttal testimony on May 4, 2020.

On June 2, 2020, Duke Energy Progress and the Public Staff filed an Agreement and Stipulation of Partial Settlement, which is subject to review and approval of the NCUC, resolving certain issues in the base rate proceeding. Major components of the settlement included:

- Removal of deferred storm costs from the rate case;
- Filing a petition seeking to securitize the deferred storm costs within 120 days of a commission order in this rate case regarding the reasonableness and prudence of the storm costs;
- Agreement of certain assumptions to demonstrate the quantifiable benefits to customers of a securitization financing;
- Agreement that the Asheville CC project is complete and in service and agreement on the amount to be included in rate base; and
- Agreement on certain accounting matters, including recovery of employee incentives, severance, aviation costs and executive compensation.

On May 6, 2020, Duke Energy Progress, Duke Energy Carolinas and the Public Staff filed a joint motion requesting that the NCUC issue an order scheduling one consolidated evidentiary hearing to consider the companies' applications for net rate increases. On June 17, 2020, the NCUC issued an order adopting procedures for the expert witness hearings to take place in three phases: (1) a hearing on issues common to both rate cases conducted remotely; (2) a hearing on Duke Energy Carolinas specific rate case issues, followed immediately by; (3) a hearing on Duke Energy Progress specific rate case issues. On July 27, 2020, Duke Energy Progress filed a joint motion with Duke Energy Carolinas and the Public Staff notifying the Commission that the parties reached a joint partial settlement with the Public Staff.

On July 31, 2020, Duke Energy Progress and the Public Staff filed a Second Agreement and Stipulation of Partial Settlement (Second Partial Settlement), which is subject to review and approval of the NCUC, resolving certain remaining issues in the base rate proceeding. Major components of the Second Partial Settlement included:

- A return on equity of 9.6% and a capital structure of 52% equity and 48% debt;
- Agreement on amortization over a five-year period for unprotected federal EDIT flowbacks to customers;
- Agreement on the inclusion of plant in service and other revenue requirement updates through May 31, 2020, subject to Public Staff review. Annual revenue requirement associated with the May 31 update is estimated at \$25 million; and
- Settlement to allow the deferral of costs for certain grid projects placed in service between June 1, 2020, and December 31, 2022, of \$0.5 billion.

FINANCIAL STATEMENTS

REGULATORY MATTERS

The remaining items litigated at hearing included recovery of deferred coal ash compliance costs that are subject to asset retirement obligation accounting and implementation of new depreciation rates.

On August 7, 2020, Duke Energy Progress filed a motion for approval of notice required to implement temporary rates, seeking to exercise its statutory right to implement temporary rates subject to refund on or after September 1, 2020. The revenue requirement to be recovered subject to refund through the temporary rates is based on and consistent with the terms of the base rate component of the settlement agreements with the Public Staff and excludes items to be litigated noted above. Duke Energy Progress will not begin the amortization or implementation of these items until a final determination is issued in the rate case and new base rates are implemented. These items will also be excluded when determining whether a refund of amounts collected through these temporary rates is needed. In addition, Duke Energy Progress also seeks authorization to place a temporary decrement EDIT Rider into effect, concurrent with the temporary base rate change. The temporary rate changes are not final rates and remain subject to the NCUC's determination of the just and reasonable rates to be charged by Duke Energy Progress on a permanent basis. The NCUC approved the August 7, 2020 temporary rates motion on August 11, 2020, and temporary rates went into effect on September 1, 2020.

The Duke Energy Progress evidentiary hearing concluded on October 6, 2020, and post-hearing filings were filed with the NCUC from all parties by December 4, 2020. On January 22, 2021, Duke Energy Progress and Duke Energy Carolinas entered into the CCR Settlement Agreement with the Settling Parties, which was filed with the NCUC on January 25, 2021. Duke Energy Progress expects the NCUC to issue an order on its net rate increase by the second quarter of 2021. For information on a proposed settlement pending before the NCUC, see "2021 Coal Ash Settlement." Duke Energy Progress cannot predict the outcome of this matter.

Hurricane Dorian

Hurricane Dorian reached the Carolinas in September 2019 as a Category 2 hurricane making landfall within Duke Energy Progress' service territory. Total estimated incremental operation and maintenance expenses incurred to repair and restore the system are approximately \$168 million with an additional \$4 million in capital investments made for restoration efforts. Approximately \$145 million and \$179 million of the operation and maintenance expenses are deferred in Regulatory assets within Other Noncurrent Assets on the Consolidated Balance Sheets as of December 31, 2020, and December 31, 2019, respectively. A request for an accounting order to defer incremental storm costs associated with Hurricane Dorian was included in Duke Energy Progress' October 30, 2019, general rate case filing with the NCUC. Terms of the June 2, 2020, Agreement and Stipulation of Partial Settlement removed incremental storm costs from the general rate case. A petition seeking to securitize these costs, along with costs from Hurricane Florence, Hurricane Michael and Winter Storm Diego, was filed on October 26, 2020, with the NCUC. For information on the securitization filing, see "2020 North Carolina Storm Securitization Filings." Duke Energy Progress cannot predict the outcome of this matter.

On February 7, 2020, a petition was filed with the PSCSC in the 2019 storm deferrals docket requesting deferral of approximately \$22 million in operation and maintenance expenses to an existing storm deferral balance previously approved by the PSCSC. The PSCSC voted to approve the request on March 4, 2020, and issued a final order on April 7, 2020. On July 1, 2020, Duke Energy Progress filed a supplemental true up reducing the actual costs to \$17 million.

2018 South Carolina Rate Case

On November 8, 2018, Duke Energy Progress filed an application with the PSCSC for a rate increase for retail customers of approximately \$59 million.

After hearings in April 2019, the PSCSC issued an order on May 21, 2019, which included a return on equity of 9.5% and a capital structure of 53% equity and 47% debt. The order also included the following material components:

- Approval of recovery of \$4 million of coal ash costs over a five-year period with a return at Duke Energy Progress' WACC;
- Denial of recovery of \$65 million of certain coal ash costs deemed to be related to the Coal Ash Act and incremental to the federal CCR rule;
- Approval of a \$17 million decrease to base rates to reflect the change in ongoing tax expense, primarily the reduction in the federal income tax rate from 35% to 21%;
- Approval of a \$12 million decrease through the EDIT Tax Savings Rider resulting from the federal tax rate change and deferred revenues since January 2018 related to the change, to be returned in accordance with ARAM for protected EDIT, over a 20-year period for unprotected EDIT associated with Property, Plant and Equipment, over a five-year period for unprotected EDIT not associated with Property, Plant and Equipment and over a three-year period for the deferred revenues; and
- Approval of a \$12 million increase due to the expiration of EDIT related to reductions in the North Carolina state income tax rate from 6.9% to 2.5%.

FINANCIAL STATEMENTS

REGULATORY MATTERS

As a result of the order, revised customer rates were effective June 1, 2019. On May 31, 2019, Duke Energy Progress filed a Petition for Rehearing or Reconsideration of that order contending substantial rights of Duke Energy Progress were prejudiced by unlawful, arbitrary and capricious rulings by the PSCSC on certain issues presented in the proceeding. On June 19, 2019, the PSCSC issued a Directive denying Duke Energy Progress' request to rehear or reconsider the Commission's rulings on certain issues presented in the proceeding including coal ash remediation and disposal costs, return on equity and the recovery of a return on deferred operation and maintenance expenses, but allowing additional litigation-related costs. As a result of the Directive allowing litigation-related costs, customer rates were revised effective July 1, 2019. An order detailing the Commission's decision in the Directive was issued on October 18, 2019. Duke Energy Progress filed a notice of appeal on November 15, 2019, with the Supreme Court of South Carolina. The ORS filed a Notice of Cross Appeal on November 20, 2019. On February 12, 2020, Duke Energy Progress and the ORS filed a joint motion to extend briefing schedule deadlines, which was approved by the Supreme Court of South Carolina on February 20, 2020. On March 10, 2020, the ORS filed a consent motion requesting withdrawal of their appeal, which was granted by the Supreme Court of South Carolina on April 30, 2020. Initial briefs were filed on April 21, 2020. Response briefs were filed on July 6, 2020, and reply briefs were filed on August 11, 2020. Oral arguments have not yet been scheduled by the Supreme Court of South Carolina. Based on legal analysis and the filing of the appeal, Duke Energy Progress has not recorded an adjustment for its deferred coal ash costs in this matter. Duke Energy Progress cannot predict the outcome of this matter.

Western Carolinas Modernization Plan

Duke Energy Progress retired the 376-MW Asheville coal-fired plant on January 29, 2020, at which time the net book value, including associated ash basin closure costs, of \$214 million was transferred from Generation facilities to be retired, net to Regulatory assets within Current Assets and Other Noncurrent Assets on the Consolidated Balance Sheets.

On December 27, 2019, Asheville Combined Cycle Unit 5 Combustion Turbine and Unit 6 Steam Turbine Generator and the common systems that serve combined cycle units went into commercial operation. Duke Energy Progress placed the Unit 7 Combustion Turbine into commercial operation in simple-cycle mode on January 15, 2020. The Unit 8 Steam Turbine Generator went into commercial operation on April 5, 2020. On June 2, 2020, Duke Energy Progress filed a request with the PSCSC for an accounting order for the deferral of post-in-service costs incurred in connection with the addition of the Asheville combined-cycle generating plant. The petition requested the PSCSC issue an accounting order authorizing Duke Energy Progress to defer post-in-service costs including the Asheville combined-cycle's depreciation expense, property taxes, incremental operations and maintenance expenses and carrying costs at WACC of approximately \$8 million annually. On June 17, 2020, the PSCSC voted to approve the petition and issued its final order on July 6, 2020.

On October 8, 2018, Duke Energy Progress filed an application with the NCUC for a CPCN to construct the Hot Springs Microgrid Solar and Battery Storage Facility, which was approved with certain conditions on May 10, 2019. A hearing to update the NCUC on the status of the project was held on March 5, 2020. Construction began in May 2020 with commercial operation expected to begin in October 2021.

On July 27, 2020, Duke Energy Progress filed an application with the NCUC for a CPCN to construct the Woodfin Solar Facility, a 5-MW solar generating facility to be constructed on a closed landfill in Buncombe County. The expert hearing was held on November 18, 2020. Duke Energy Progress cannot predict the outcome of this matter.

FERC Return on Equity Complaints

On October 11, 2019, NCEMPA filed a complaint at the FERC against Duke Energy Progress pursuant to Section 206 of the Federal Power Act (FPA), alleging that the 11% stated return on equity (ROE) component contained in the demand formula rate in the Full Requirements Power Purchase Agreement (FRPPA) between NCEMPA and Duke Energy Progress is unjust and unreasonable. On July 16, 2020, the FERC set this matter for hearing and settlement judge procedures and established a refund effective date of October 11, 2019. In its order setting the matter for settlement, the FERC allowed for the consideration of variations to the base transmission-related ROE methodology developed in its Order No. 569-A, through the introduction of "specific facts and circumstances" involving issues specific to the case. It is Duke Energy Progress' view that, in consideration of the specific facts and circumstances of risks under the provisions of the FRPPA, the stated 11% ROE is just and reasonable. The parties are currently in FERC settlement procedures. Duke Energy Progress cannot predict the outcome of this matter.

On October 16, 2020, NCEMC filed a complaint at the FERC against Duke Energy Progress pursuant to Section 206 of the FPA, alleging that the 11% stated ROE component in the demand formula rate in the Power Supply and Coordination Agreement between NCEMC and Duke Energy Progress is unjust and unreasonable. Under FPA Section 206, the earliest refund effective date that the FERC can establish is the date of the filing of the complaint. Duke Energy Progress responded to the complaint on November 20, 2020, demonstrating that the 11% ROE is just and reasonable for the service provided. The parties have filed additional pleadings. The FERC has not issued an order, and there is no deadline for the FERC to act. Duke Energy Progress cannot predict the outcome of this matter.

FINANCIAL STATEMENTS

REGULATORY MATTERS

Duke Energy Florida

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Florida's Consolidated Balance Sheets.

(in millions)	December 31,		Earnings/Payments a Return	Recovery/Refund Period Ends
	2020	2019		
Regulatory Assets^(a)				
AROs – coal ash ^(c)	\$ 10	\$ 9		(b)
AROs – nuclear and other ^(c)	2	159	Yes	(b)
Accrued pension and OPEB ^(c)	482	474	Yes	(g)
Storm cost deferrals ^(c)	108	413	(e)	(b)
Nuclear asset securitized balance, net	991	1,042		2036
Retired generation facilities ^(c)	174	183	Yes	(b)
Hedge costs deferrals	59	44	Yes	2038
AMI ^(c)	45	53	Yes	2032
DSM/EE ^(c)	17	25	Yes	2025
Deferred fuel and purchased power	4	39	(f)	2022
Qualifying facility contract buyouts	107	121	Yes	2034
Customer connect project	30	20		2037
Other	35	31	(d)	(b)
Total regulatory assets	2,064	2,613		
Less: current portion	265	419		
Total noncurrent regulatory assets	\$ 1,799	\$ 2,194		
Regulatory Liabilities^(a)				
Net regulatory liability related to income taxes ^(c)	\$ 749	\$ 793		(b)
Costs of removal ^(c)	—	267	(d)	(b)
Deferred fuel and purchased power ^(c)	—	1	(f)	
Other	19	26	(d)	(b)
Total regulatory liabilities	768	1,087		
Less: current portion	110	94		
Total noncurrent regulatory liabilities	\$ 658	\$ 993		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Included in rate base.
(d) Certain costs earn/pay a return.
(e) Earns a debt return/interest once collections begin.
(f) Earns commercial paper rate.
(g) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.

COVID-19 Filings

In March 2020, Governor Ron DeSantis directed the State Health Officer of Florida to declare a public health emergency in Florida related to the COVID-19 pandemic. The governor also issued an Executive Order on March 9, 2020, in which he declared a state of emergency in Florida and directed the Director of the Division of Emergency Management to implement the state's Comprehensive Emergency Management Plan. On March 19, 2020, Duke Energy Florida filed a request to modify its tariff to allow it to waive late fees for customers, and on April 6, 2020, the FPSC issued an order approving the request. Duke Energy Florida had already voluntarily waived reconnect fees and credit card fees and ceased disconnecting customers for nonpayment. On April 2, 2020, Duke Energy Florida filed a petition with the FPSC to accelerate a \$78 million fuel cost refund to customers in the month of May 2020. Typically, the refund would be made over the course of 2021. The FPSC approved the petition on April 28, 2020. Duke Energy Florida resumed normal billing practices as of August 24, 2020, with the exception of the billing of late payment charges. Customers were notified of the resumption of normal billing practices, the option of deferred payment arrangements and where to find assistance, if necessary. Service disconnections for nonpayment for residential customers resumed on October 5, 2020.

2021 Settlement Agreement

On January 14, 2021, Duke Energy Florida filed a Settlement Agreement (the "Settlement") with the FPSC. The parties to the Settlement include Duke Energy Florida, the Office of Public Counsel (OPC), the Florida Industrial Power Users Group, White Springs Agricultural Chemicals, Inc. d/b/a PCS Phosphate and NUCOR Steel Florida, Inc. (collectively, the "Parties").

FINANCIAL STATEMENTS

REGULATORY MATTERS

Pursuant to the Settlement, the Parties agreed to a base rate stay-out provision that expires year-end 2024; however, Duke Energy Florida is allowed an increase to its base rates of an incremental \$67 million in 2022, \$49 million in 2023 and \$79 million in 2024, subject to adjustment in the event of tax reform during the years 2021, 2022 and 2023. The Parties also agreed to a return on equity ("ROE") band of 8.85% to 10.85% with a midpoint of 9.85% based on a capital structure of 53% equity and 47% debt. The ROE band can be increased by 25 basis points if the average 30-year U.S. Treasury rate increases 50 basis points or more over a six-month period in which case the midpoint ROE would rise from 9.85% to 10.10%. Duke Energy Florida will also be able to retain the DOE award of \$173 million for spent nuclear fuel, which is expected to be received in 2022, in order to mitigate customer rates over the term of the Settlement. In return, Duke Energy Florida will be able to recognize the \$173 million into earnings from 2022 through 2024.

In addition to these terms, the Settlement contains provisions related to the accelerated depreciation of Crystal River Units 4-5, the approval of approximately \$1 billion in future investments in new cost effective solar power, the implementation of a new Electric Vehicle Charging Station Program and the deferral and recovery of costs in connection with the implementation of Duke Energy Florida's Vision Florida program, which explores various emerging non-carbon emitting generation technology, distributed technologies and resiliency projects, among other things. The Settlement also resolves remaining unrecovered storm costs for hurricanes Dorian and Michael.

The Settlement is subject to the review and approval of the FPSC, which may occur in the second quarter of 2021. If the FPSC approves the Settlement, the new rates will be effective January 1, 2022, with subsequent base rate increases effective January 1, 2023, and January 1, 2024. Duke Energy Florida cannot predict the outcome of this matter.

Storm Restoration Cost Recovery

Duke Energy Florida filed a petition with the FPSC on April 30, 2019, to recover \$223 million of estimated retail incremental storm restoration costs for Hurricane Michael, consistent with the provisions in the 2017 Settlement, and the FPSC approved the petition on June 11, 2019. The FPSC also approved allowing Duke Energy Florida to use the tax savings resulting from the Tax Act to recover these storm costs in lieu of implementing a storm surcharge. Approved storm costs are currently expected to be fully recovered by approximately year-end 2021. On November 22, 2019, Duke Energy Florida filed a petition for approval of actual retail recoverable storm restoration costs related to Hurricane Michael in the amount of \$191 million plus interest. On May 19, 2020, Duke Energy Florida filed a supplemental true up reducing the actual retail recoverable storm restoration costs related to Hurricane Michael by approximately \$3 million, resulting in a total request to recover \$188 million actual retail recoverable storm restoration costs, plus interest. On November 12, 2020, Duke Energy Florida and OPC requested a 90 day abatement to engage in discussions to narrow the issues being litigated. The Prehearing Officer approved this request on November 16, 2020, and ordered Duke Energy Florida and OPC to update the commission on their discussions by February 12, 2021. Approximately \$80 million and \$204 million of these costs are included in Regulatory assets within Current Assets and Other Noncurrent Assets on the Consolidated Balance Sheets as of December 31, 2020, and December 31, 2019, respectively.

Duke Energy Florida filed a petition with the FPSC on December 19, 2019, to recover \$169 million of estimated retail incremental storm restoration costs for Hurricane Dorian, consistent with the provisions in the 2017 Settlement and the FPSC approved the petition on February 24, 2020. Approximately \$167 million of these costs are included in Regulatory assets within Current Assets and Other Noncurrent Assets on the Consolidated Balance Sheets as of December 31, 2019, representing recoverable costs under the FPSC's storm rule and Duke Energy Florida's OATT formula rates. The amount at December 31, 2020 was immaterial. The final actual amount of \$145 million was filed on September 30, 2020. Pursuant to the 2021 Settlement Agreement filed for FPSC approval on January 14, 2021, all matters regarding storm cost recovery relating to hurricanes Michael and Dorian have been resolved.

Clean Energy Connection

On July 1, 2020, Duke Energy Florida petitioned the FPSC for approval of a voluntary solar program. The program consists of 10 new solar generating facilities with combined capacity of approximately 750 MW. The program allows participants to support cost-effective solar development in Florida by paying a subscription fee based on per kilowatt-subscriptions and receiving a credit on their bill based on the actual generation associated with their portion of the solar portfolio. The estimated cost of the 10 new solar generation facilities is approximately \$1 billion over the next four years, and this investment will be included in base rates offset by the revenue from the subscription fees. The credits will be included for recovery in the fuel cost recovery clause. A remote hearing was held on November 17, 2020, and post-hearing briefs were filed with the FPSC from all parties by December 9, 2020. The FPSC voted to approve the program on January 5, 2021, and issued its written order on January 26, 2021.

Crystal River Unit 3 Accelerated Decommissioning Filing

On May 29, 2019, Duke Energy Florida entered into a Decommissioning Services Agreement for the accelerated decommissioning of Crystal River Unit 3 located in Citrus County, Florida, with ADP CR3, LLC and ADP SF1, LLC, each of which is a wholly owned subsidiary of Accelerated Decommissioning Partners, LLC (ADP), a joint venture between NorthStar Group Services, Inc. and Orano USA LLC. The agreement will allow for completion of the decommissioning of Crystal River Unit 3 by 2027, rather than 2074 as originally planned. Duke Energy Florida will also sell and assign the spent nuclear fuel, storage canisters, high-level waste and existing dry spent fuel storage installation and certain related assets, together with certain associated liabilities and obligations to ADP SF1, LLC. Duke Energy Florida expects that the assets of the Nuclear Decommissioning Trust Fund as of December 31, 2020, will be sufficient to cover the contract price. The U.S. Nuclear Regulatory Commission approved the transaction on April 1, 2020, and the FPSC issued an order approving the transaction on August 27, 2020. The transaction closed on October 1, 2020.

FINANCIAL STATEMENTS

REGULATORY MATTERS

Citrus County CC

Construction of the 1,640-MW combined-cycle natural gas plant in Citrus County, Florida, began in October 2015 with an estimated cost of \$1.5 billion, including AFUDC. Both units came online in the fourth quarter of 2018. The ultimate cost of the facility was estimated to be \$1.6 billion, and Duke Energy Florida recorded Impairment charges on Duke Energy's Consolidated Statements of Operations of \$60 million in the fourth quarter of 2018 for the overrun. In the year ended December 31, 2019, Duke Energy Florida recorded a \$36 million reduction to the prior year impairment due to a decrease in the cost estimate of the Citrus County CC, primarily related to the settlement agreement with Fluor, the EPC contractor. This adjustment reduced the estimated cost of the facility to \$1.5 billion.

Duke Energy Ohio

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Ohio's Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2020	2019		
Regulatory Assets^(a)				
AROs – coal ash	\$ 22	\$ 16	Yes	(b)
Accrued pension and OPEB	149	155		(g)
Storm cost deferrals	4	7		2023
PISCC and deferred operating expenses ^(c)	16	17	Yes	2083
Hedge costs deferrals	7	6		(b)
AMI	36	40		(b)
DSM/EE	1	2	(f)	(e)
Vacation accrual	6	5		2021
Deferred fuel and purchased power	—	1		2021
CEP deferral	117	76	Yes	(b)
MGP	104	102		(b)
Deferred pipeline integrity costs	21	17	Yes	(b)
Other	166	154		(b)
Total regulatory assets	649	598		
Less: current portion	39	49		
Total noncurrent regulatory assets	\$ 610	\$ 549		
Regulatory Liabilities^(a)				
Net regulatory liability related to income taxes	\$ 628	\$ 654		(b)
Costs of removal	68	86		(d)
Provision for rate refunds	45	31		(b)
Accrued pension and OPEB	17	16		(g)
Other	55	40		(b)
Total regulatory liabilities	813	827		
Less: current portion	65	64		
Total noncurrent regulatory liabilities	\$ 748	\$ 763		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
- (b) The expected recovery or refund period varies or has not been determined.
- (c) Included in rate base.
- (d) Recovery over the life of the associated assets.
- (e) Recovered via a rider mechanism.
- (f) Includes incentives on DSM/EE investments.
- (g) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.

FINANCIAL STATEMENTS

REGULATORY MATTERS

Duke Energy Ohio COVID-19 Filings

In response to the COVID-19 pandemic, on March 9, 2020, Governor Mike DeWine declared a state of emergency in the state of Ohio. The PUCO issued an order directing utilities to cease disconnections for nonpayment and waive late payment and reconnection fees and to minimize direct customer contact. The PUCO also directed utilities to maintain flexible payment plans and tariff interpretations to assist customers during this crisis and to seek any regulatory waivers, if necessary. In response, Duke Energy Ohio ceased all disconnections except for safety-related concerns and waived late payment and reconnection fees. On March 19, 2020, Duke Energy Ohio filed its compliance plan with the PUCO and sought waiver of several regulations to minimize direct customer contact. On May 4, 2020, Duke Energy Ohio filed a motion to suspend payment rules to enable proactive outreach to residential customers offering additional options for managing their utility bills. PUCO found the proposal to address the state of emergency and the accompanying waivers reasonable and directed Duke Energy Ohio to work with the PUCO Staff on a comprehensive plan for resumption of activities and operations, to be filed 45 days before resumption of activities. The transition plan to resume normal operations to pre-COVID-19 levels was filed on June 26, 2020, and approved by the PUCO on July 29, 2020. Pursuant to the transition plan, suspended work and activities resumed beginning August 10, 2020, and disconnections resumed on September 8, 2020, for nonresidential customers and October 5, 2020, for residential customers.

On April 16, 2020, Duke Energy Ohio filed an application for a Reasonable Arrangement to temporarily lower the minimum bill for demand-metered commercial and industrial customers. On June 17, 2020, the PUCO denied Duke Energy Ohio's application for a reasonable arrangement and ordered Duke Energy Ohio to work with the PUCO Staff on payment arrangements for impacted nonresidential customers.

On May 11, 2020, Duke Energy Ohio filed with the PUCO a request seeking deferral of incremental costs incurred, as well as specific miscellaneous lost revenues using existing uncollectible riders already in place for both electric and natural gas operations. Duke Energy Ohio would subsequently file for rider recovery at a later date. On June 17, 2020, the PUCO approved Duke Energy Ohio's deferral application. The Commission denied the accrual of carrying costs and ordered Duke Energy Ohio to also track potential savings experienced as a result of COVID-19.

Duke Energy Kentucky COVID-19

In response to the COVID-19 pandemic, on March 6, 2020, Governor Andy Beshear declared a state of emergency in the commonwealth of Kentucky. The KPSC issued an order directing utilities to cease disconnections for nonpayment and waive late payment fees. The KPSC also directed utilities to maintain flexible payment plans and tariff interpretations to assist customers during this crisis and to seek any regulatory waivers, if necessary. In response, Duke Energy Kentucky ceased all disconnections except for safety-related concerns and waived late payment and reconnection fees. On September 21, 2020, the KPSC issued an order ending the disconnection moratorium for residential and nonresidential customers effective no earlier than October 20, 2020. Utilities are required to offer residential customers a default payment plan for any arrearages accumulated through the October 2020 billing cycle. Assessment of late payment charges for nonresidential customers resumed beginning October 20, 2020, and resumed for residential customers after December 31, 2020. Duke Energy Kentucky is following the order, as clarified on September 30, 2020, by the KPSC.

2017 Electric Security Plan Filing

On June 1, 2017, Duke Energy Ohio filed with the PUCO a request for a standard service offer in the form of an ESP. On April 13, 2018, Duke Energy Ohio, along with certain intervenors, filed a Stipulation and Recommendation (Stipulation) with the PUCO resolving that the term of the ESP would be from June 1, 2018, to May 31, 2025, and included continuation of market-based customer rates through competitive procurement processes for generation, continuation and expansion of existing rider mechanisms and approved new rider mechanisms relating to costs incurred to enhance the customer experience and transform the grid and a service reliability rider for vegetation management. On September 13, 2019, and September 16, 2019, Interstate Gas Supply/Retail Supply Association and the Ohio Consumers' Counsel (OCC), respectively, filed appeals to the Supreme Court of Ohio claiming the PUCO's order was in error. On March 13, 2020, the Supreme Court of Ohio dismissed OCC's appeal. On April 22, 2020, the Supreme Court of Ohio dismissed all remaining appeals of the PUCO's December 19, 2018 order approving the Stipulation. The case has been resolved.

Electric Base Rate Case

Duke Energy Ohio filed with the PUCO an electric distribution base rate case application and supporting testimony in March 2017. Duke Energy Ohio requested an estimated annual increase of approximately \$15 million and a return on equity of 10.4%. On April 13, 2018, Duke Energy Ohio, along with certain intervenors, filed the Stipulation with the PUCO including a \$19 million decrease in annual base distribution revenue with a return on equity unchanged from the current rate of 9.84% based upon a capital structure of 50.75% equity and 49.25% debt. Upon approval of new rates, Duke Energy Ohio's rider for recovering its initial SmartGrid implementation ended as these costs would be recovered through base rates. The Stipulation also renewed 14 existing riders, some of which were included in Duke Energy Ohio's ESP, and added two new riders including the Enhanced Service Reliability Rider to recover vegetation management costs not included in base rates, up to \$10 million per year (operation and maintenance only) and the Power Future Initiatives Rider (formerly PowerForward Rider) to recover costs incurred to enhance the customer experience and further transform the grid (operation and maintenance and capital). In addition to the changes in revenue attributable to the Stipulation, Duke Energy Ohio's capital-related riders, including the Distribution Capital Investments Rider, began to reflect the lower federal income tax rate associated with the Tax Act with updates to customers' bills beginning April 1, 2018. This change reduced electric revenue by approximately \$20 million on an annualized basis. On December 19, 2018, the PUCO approved the Stipulation without material modification. New base rates were implemented effective January 2, 2019. On September 13, 2019, and September 16, 2019, Interstate Gas Supply/Retail Supply Association and the OCC, respectively, filed appeals to the Supreme Court of Ohio claiming the PUCO's order was in error. On March 13, 2020, the Supreme Court of Ohio dismissed the OCC's appeal. On April 22, 2020, the Supreme Court of Ohio dismissed all remaining appeals of the PUCO's December 19, 2018 order approving the Stipulation. The case has been resolved.

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FINANCIAL STATEMENTS

REGULATORY MATTERS

Ohio Valley Electric Corporation

On March 31, 2017, Duke Energy Ohio filed for approval to adjust its existing Rider PSR to pass through net costs related to its contractual entitlement to capacity and energy from the generating assets owned by OVEC. Duke Energy Ohio sought deferral authority for net costs incurred from April 1, 2017, until the new rates under Rider PSR were put into effect. On April 13, 2018, Duke Energy Ohio, along with certain intervenors, filed a Stipulation with the PUCO resolving numerous issues including those related to Rider PSR. The Stipulation activated Rider PSR for recovery of net costs incurred from January 1, 2018, through May 2025. On December 19, 2018, the PUCO approved the Stipulation without material modification. The PSR rider became effective April 1, 2019. On September 13, 2019, and September 16, 2019, Interstate Gas Supply/Retail Supply Association and the OCC filed appeals to the Supreme Court of Ohio claiming the PUCO's order was in error. On March 13, 2020, the Supreme Court of Ohio dismissed OCC's appeal. On April 22, 2020, the Supreme Court of Ohio dismissed all remaining appeals of the PUCO's December 19, 2018 order approving the Stipulation. The case has been resolved.

On July 23, 2019, House Bill 6 (HB 6) was signed into law that became effective January 1, 2020. Among other things, the bill allows for funding through a rider mechanism referred to as the Clean Air Fund (Rider CAF), of two nuclear generating facilities located in Northern Ohio owned by Energy Harbor (f/k/a FirstEnergy Solutions), repeal of energy efficiency mandates and recovery of prudently incurred costs, net of any revenues, for Ohio investor-owned utilities that are participants under the OVEC power agreement. The recovery is through a non-bypassable rider that replaced any existing recovery mechanism approved by the PUCO and will remain in place through 2030. As such, Duke Energy Ohio created the Legacy Generation Rider (Rider LGR) that replaced Rider PSR effective January 1, 2020. The amounts recoverable from customers are subject to an annual cap, with incremental costs that exceed such cap eligible for deferral and recovery subject to review. See Note 17 for additional discussion of Duke Energy Ohio's ownership interest in OVEC. In July 2020, legislation to repeal HB 6 was proposed in both the Ohio House and Senate, with subsequent hearings to receive witness testimony. On December 21, 2020, the Franklin County Circuit Court issued an injunction against the PUCO's Order that approved the nuclear plant funding through Rider CAF set to become effective on January 1, 2021. On December 28, 2020, in a separate proceeding, the Ohio Supreme Court, ordered a temporary stay on the implementation of Rider CAF. Duke Energy Ohio is not impacted by any changes in Rider CAF. The General Assembly's session ended without addressing HB 6. Duke Energy Ohio cannot predict the outcome of this matter.

Tax Act – Ohio

On December 21, 2018, Duke Energy Ohio filed an application to change its base rate tariffs and establish a new rider to implement the benefits of the Tax Act for natural gas customers. Duke Energy Ohio requested commission approval to implement the changes and rider effective April 1, 2019. The new rider will flow through to customers the benefit of the lower statutory federal tax rate from 35% to 21% since January 1, 2018, all future benefits of the lower tax rates and a full refund of deferred income taxes collected at the higher tax rates in prior years. Deferred income taxes subject to normalization rules will be refunded consistent with federal law and deferred income taxes not subject to normalization rules will be refunded over a 10-year period. The PUCO established a procedural schedule and testimony was filed on July 31, 2019. An evidentiary hearing occurred on August 7, 2019. Initial briefs were filed on September 11, 2019. Reply briefs were filed on September 25, 2019. Duke Energy Ohio cannot predict the outcome of this matter.

Energy Efficiency Cost Recovery

On February 26, 2020, the PUCO issued an order directing utilities to wind down their demand-side management programs by September 30, 2020, and to terminate the programs by December 31, 2020, in response to changes in Ohio law that eliminated Ohio's energy efficiency mandates. On March 27, 2020, Duke Energy Ohio filed an Application for Rehearing seeking clarification on the final true up and reconciliation process after 2020. On April 22, 2020, the PUCO granted rehearing for further consideration. The PUCO issued two orders on November 18, 2020, on the application for rehearing. The first order was a Third Entry on Rehearing on the Duke Energy Ohio portfolio holding the cost cap previously imposed was unlawful, a shared savings cap of \$8 million pretax should be imposed and lost distribution revenues could not be recovered after December 31, 2020. The second order directs all utilities set the rider to zero effective January 1, 2021, and to file a separate application for final reconciliation of all energy efficiency costs prior to December 31, 2020. On December 18, 2020, Duke Energy Ohio filed an application for rehearing. On January 13, 2021, the application for rehearing was granted for further consideration. Duke Energy Ohio cannot predict the outcome of this matter.

On October 9, 2020, Duke Energy Ohio filed an application to implement a voluntary efficiency program portfolio to commence on January 1, 2021. The application proposes a mechanism for recovery of program costs and a benefit associated with avoided transmission and distribution costs. The application remains under review. As of January 1, 2021, Duke Energy Ohio suspended its energy efficiency programs due to changes in Ohio law. Duke Energy Ohio cannot predict the outcome of this matter.

FINANCIAL STATEMENTS

REGULATORY MATTERS

Natural Gas Pipeline Extension

Duke Energy Ohio is proposing to install a new natural gas pipeline (the Central Corridor Project) in its Ohio service territory to increase system reliability and enable the retirement of older infrastructure. Duke Energy Ohio currently estimates the pipeline development costs and construction activities will range from \$163 million to \$245 million in direct costs (excluding overheads and AFUDC) and that construction of the pipeline extension is expected to be completed before the 2021/2022 winter season. An evidentiary hearing for a Certificate of Environmental Compatibility and Public Need concluded on April 11, 2019. On November 21, 2019, the Ohio Power Siting Board (OPSB) approved Duke Energy Ohio's application subject to 41 conditions on construction. Applications for rehearing were filed by several stakeholders on December 23, 2019, arguing that the OPSB approval was incorrect. On February 20, 2020, the OPSB denied the rehearing requests. On April 15, 2020, Joint Appellants filed a notice of appeal at the Supreme Court of Ohio of the OPSB's decision approving Duke Energy Ohio's Central Corridor application. On June 4, 2020, the OPSB filed a motion to dismiss claims raised by one of the Joint Appellants and on August 5, 2020, the Supreme Court of Ohio dismissed one of the Joint Appellants from the appeal. Joint Appellants filed their merit briefs on August 26, 2020. Appellee briefs were filed October 15, 2020. Appellants' briefs were filed on November 24, 2020. On September 22, 2020, Duke Energy Ohio filed an application with the OPSB for approval to amend the certificated pipeline route due to changes in the route negotiated with property owners and municipalities. The staff report was filed on December 21, 2020, recommending approval subject to three conditions that reaffirm previous conditions, and provide guidance regarding local permitting and construction supervision. On December 23, 2020, Duke Energy Ohio filed a letter indicating its acceptance of these conditions if required by the OPSB. On January 21, 2021, the OPSB approved the amended filing with the recommended conditions. On January 27, 2021, the Ohio Supreme Court set oral argument for March 31, 2021. Duke Energy Ohio cannot predict the outcome of this matter.

MGP Cost Recovery

As part of its 2012 natural gas base rate case, Duke Energy Ohio has approval to defer and recover costs related to environmental remediation at two sites (East End and West End) that housed former MGP operations. Duke Energy Ohio has collected approximately \$55 million in environmental remediation costs incurred between 2009 through 2012 through Rider MGP, which is currently suspended. Duke Energy Ohio has made annual applications with the PUCO to recover its incremental remediation costs consistent with the PUCO's directive in Duke Energy Ohio's 2012 natural gas base rate case. To date, the PUCO has not ruled on Duke Energy Ohio's annual applications for the calendar years 2013 through 2019. On September 28, 2018, the staff of the PUCO issued a report recommending a disallowance of approximately \$12 million of the \$26 million in MGP remediation costs incurred between 2013 through 2017 that staff believes are not eligible for recovery. Staff interprets the PUCO's 2012 Order granting Duke Energy Ohio recovery of MGP remediation as limiting the recovery to work directly on the East End and West End sites. On October 30, 2018, Duke Energy Ohio filed reply comments objecting to the staff's recommendations and explaining, among other things, the obligation Duke Energy Ohio has under Ohio law to remediate all areas impacted by the former MGPs and not just physical property that housed the former plants and equipment. On March 29, 2019, Duke Energy Ohio filed its annual application to recover incremental remediation expense for the calendar year 2018 seeking recovery of approximately \$20 million in remediation costs. On July 12, 2019, the staff recommended a disallowance of approximately \$11 million for work that staff believes occurred in areas not authorized for recovery. Additionally, staff recommended that any discussion pertaining to Duke Energy Ohio's recovery of ongoing MGP costs should be directly tied to or netted against insurance proceeds collected by Duke Energy Ohio. An evidentiary hearing concluded on November 21, 2019. Initial briefs were filed on January 17, 2020, and reply briefs were filed on February 14, 2020. Duke Energy Ohio cannot predict the outcome of this matter.

On March 31, 2020, Duke Energy Ohio filed its annual application to recover incremental remediation expense for the calendar year 2019 seeking recovery of approximately \$39 million in remediation costs incurred during 2019. On July 23, 2020, the staff recommended a disallowance of approximately \$4 million for work the staff believes occurred in areas not authorized for recovery. Additionally, the staff recommended insurance proceeds, net of litigation costs and attorney fees, should be reimbursed to customers and not be held by Duke Energy Ohio until all investigation and remediation is complete. Duke Energy Ohio filed comments in response to the staff report on August 21, 2020, and intervenor comments were filed on November 9, 2020. Duke Energy Ohio cannot predict the outcome of this matter.

The 2012 PUCO order also contained conditional deadlines for completing the MGP environmental remediation and the deferral of remediation costs at the MGP sites. Subsequent to the order, the deadline was extended to December 31, 2019. On May 10, 2019, Duke Energy Ohio filed an application requesting a continuation of its existing deferral authority for MGP remediation that must occur after December 31, 2019. On July 12, 2019, staff recommended the Commission deny the deferral authority request. On September 13, 2019, intervenor comments were filed opposing Duke Energy Ohio's request for continuation of existing deferral authority and on October 2, 2019, Duke Energy Ohio filed reply comments. Duke Energy Ohio cannot predict the outcome of this matter.

Duke Energy Kentucky Electric Base Rate Case

On September 3, 2019, Duke Energy Kentucky filed a rate case with the KPSC requesting an increase in electric base rates of approximately \$46 million. On January 31, 2020, Duke Energy Kentucky filed rebuttal testimony updating its rate increase request to approximately \$44 million. Hearings concluded on February 20, 2020, and briefing was completed March 20, 2020. On April 27, 2020, the KPSC issued its decision approving a \$24 million increase for Duke Energy Kentucky with a 9.25% return on equity. The KPSC denied Duke Energy Kentucky's major storm deferral mechanism and EV and battery storage pilots. The KPSC approved Duke Energy Kentucky's Green Source Advantage tariff. New customer rates were effective on May 1, 2020. On May 18, 2020, Duke Energy Kentucky filed its motion for rehearing and on June 4, 2020, the motion was granted in part and denied in part by the KPSC. On October 16, 2020, the KPSC issued an Order on Rehearing authorizing an additional \$4 million increase in revenue requirement bringing the total authorized revenue requirement increase to \$28 million. Revised customer rates took effect in November 2020. The case has been resolved.

Regional Transmission Organization Realignment

Duke Energy Ohio, including Duke Energy Kentucky, transferred control of its transmission assets from MISO to PJM, effective December 31, 2011. The PUCO approved a settlement related to Duke Energy Ohio's recovery of certain costs of the RTO realignment via a non-bypassable rider. Duke Energy Ohio is allowed to recover all MISO Transmission Expansion Planning (MTEP) costs directly or indirectly charged to Ohio customers. The KPSC also approved a request to effect the RTO realignment, subject to a commitment not to seek double recovery in a future rate case of the transmission expansion fees that may be charged by MISO and PJM in the same period or overlapping periods.

FINANCIAL STATEMENTS

REGULATORY MATTERS

The following table provides a reconciliation of the beginning and ending balance of Duke Energy Ohio's recorded liability for its exit obligation and share of MTEP costs recorded in Other within Current Liabilities and Other Noncurrent Liabilities on the Consolidated Balance Sheets. The retail portions of MTEP costs billed by MISO are recovered by Duke Energy Ohio through a non-bypassable rider. As of December 31, 2020, and 2019, \$37 million and \$40 million, respectively, are recorded in Regulatory assets on Duke Energy Ohio's Consolidated Balance Sheets.

(in millions)	December 31, 2019	Provisions/ Adjustments	Cash Reductions	December 31, 2020
Duke Energy Ohio	\$ 54	\$ (1)	\$ (3)	\$ 50

Duke Energy Indiana

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Duke Energy Indiana's Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2020	2019		
Regulatory Assets^(a)				
AROs – coal ash	\$ 615	\$ 529	Yes	(b)
Accrued pension and OPEB	245	243		(e)
Retired generation facilities ^(c)	43	49	Yes	2030
PISCC and deferred operating expenses ^(c)	303	246	Yes	(b)
Hedge costs deferrals	22	23		(b)
AMI	19	18		2031
Vacation accrual	12	12		2021
Deferred fuel and purchased power	9	—		2021
Other	60	52		(b)
Total regulatory assets	1,328	1,172		
Less: current portion	125	90		
Total noncurrent regulatory assets	\$ 1,203	\$ 1,082		
Regulatory Liabilities^(a)				
Net regulatory liability related to income taxes	\$ 956	\$ 1,008		(b)
Costs of removal	599	599		(d)
Accrued pension and OPEB	100	90		(e)
Amounts to be refunded to customers	17	—		(b)
Other	66	43		(b)
Total regulatory liabilities	1,738	1,740		
Less: current portion	111	55		
Total noncurrent regulatory liabilities	\$ 1,627	\$ 1,685		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
- (b) The expected recovery or refund period varies or has not been determined.
- (c) Included in rate base.
- (d) Refunded over the life of the associated assets.
- (e) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.

COVID-19 Filing

In response to the COVID-19 pandemic, on March 6, 2020, Governor Eric Holcomb declared a public health disaster emergency in the state of Indiana, which is currently still in effect. At that time, Duke Energy Indiana had already voluntarily suspended all disconnections and waived late payment fees and check return fees. The utility also waived credit card fees for residential customers. The Executive Order requiring utilities in the state to suspend disconnection of utility service expired July 1, 2020.

FINANCIAL STATEMENTS

REGULATORY MATTERS

On May 8, 2020, Duke Energy Indiana, along with other Indiana utilities, filed a request with the IURC for approval of deferral treatment for costs and revenue reductions associated with the COVID-19 pandemic. The utilities requested initial deferral approval in July 2020, with individual subdockets for each utility to be established for consideration of utility-specific cost and revenue impacts, cost recovery timing and customer payment plans. On June 29, 2020, the IURC issued an order in Phase 1 wherein it extended the disconnection moratorium for jurisdictional utilities until August 14, 2020, along with requiring six-month payment arrangements, waiver of late fees, reconnection fees, convenience fees and deposits. The IURC permitted jurisdictional utilities to use regulatory accounting for any impacts associated with the prohibition on utility disconnections, waiver or exclusion of certain utility fees (i.e., late fees, convenience fees, deposits, and reconnection fees), the use of expanded payment arrangements to aid customers, and for COVID-19 related uncollectible and incremental bad debt expense. The IURC did not permit recovery of lost revenues due to load reduction or carrying costs. In Phase 2 filings, individual utilities may choose to request regulatory accounting for other COVID-19 related operation and maintenance costs wherein evidence of the impact of any costs or offsetting savings can be presented and considered in an evidentiary hearing. On August 12, 2020, the IURC issued a supplemental order extending the requirement for six-month payment arrangements and waiver of certain customer fees for another 60 days but did not extend the disconnect moratorium. As such, Duke Energy Indiana resumed service disconnections for nonpayment in mid-September 2020. Normal billing practices resumed in mid-October 2020, except that Duke Energy Indiana has committed to provide extended payment arrangements into 2021 and to waive credit card and pay station fees for residential customers through the end of 2020. Customers were notified of the resumption of normal billing practices, the option of deferred payment arrangements and where to find assistance, if necessary. Duke Energy Indiana cannot predict the outcome of this matter.

2019 Indiana Rate Case

On July 2, 2019, Duke Energy Indiana filed a general rate case with the IURC for a rate increase for retail customers of approximately \$395 million. The rebuttal case, filed on December 4, 2019, updated the requested revenue requirement to result in a 15.6% or \$396 million average retail rate increase, including the impacts of the Utility Receipts Tax. Hearings concluded on February 7, 2020. On June 29, 2020, the IURC issued the order in the rate case approving a revenue increase of \$146 million before certain adjustments and ratemaking refinements. The order provided for an overall cost of capital of 5.7% based on a 9.7% return on equity and a 53% equity component of the capital structure, and approved Duke Energy Indiana's requested forecasted rate base of \$10.2 billion as of December 31, 2020, including the Edwardsport Integrated Gasification Combined Cycle (IGCC) Plant. The IURC reduced Duke Energy Indiana's request by slightly more than \$200 million, when accounting for the utility receipts tax and other adjustments. Approximately 50% of the reduction is due to a prospective change in depreciation and use of regulatory asset for the end-of-life inventory at retired generating plants, approximately 20% is due to the approved 9.7% return on equity versus requested 10.4% and approximately 20% is related to miscellaneous earnings neutral adjustments. Step one rates are estimated to be approximately 75% of the total and became effective on July 30, 2020. Step two rates are estimated to be the remaining 25% of the total rate increase and will be implemented in mid-2021. Several groups filed notices of appeal of the IURC order on July 29, 2020. Appellate briefs were filed on October 14, 2020, focusing on three issues: wholesale sales allocations, coal ash basin cost recovery and the Edwardsport IGCC operating and maintenance expense level approved. The appeal was fully briefed in January 2021, and a decision is expected in the first or second quarter of 2021. Duke Energy Indiana cannot predict the outcome of this matter.

2020 Indiana Coal Ash Recovery Case

In Duke Energy Indiana's rate case, the IURC approved coal ash basin closure costs expended through 2018 including financing costs as a regulatory asset and included in rate base. The IURC opened a subdocket to deal with the post-2018 coal ash related expenditures. Duke Energy Indiana filed testimony on April 15, 2020, in the coal ash subdocket requesting recovery for the post-2018 coal ash basin closure costs for plans that have been approved by the Indiana Department of Environmental Management as well as continuing deferral, with carrying costs, on the balance. An evidentiary hearing was held on September 14, 2020, and the parties have agreed on a delayed briefing schedule that allows for the Indiana Rate Case appeal to proceed. Briefing will be completed by mid-May 2021. Duke Energy Indiana cannot predict the outcome of this matter.

FINANCIAL STATEMENTS

REGULATORY MATTERS

Piedmont

Regulatory Assets and Liabilities

The following tables present the regulatory assets and liabilities recorded on Piedmont's Consolidated Balance Sheets.

(in millions)	December 31,		Earns/Pays a Return	Recovery/Refund Period Ends
	2020	2019		
Regulatory Assets^(a)				
AROs – nuclear and other	\$ 20	\$ 16		(d)
Accrued pension and OPEB ^(c)	88	90		(f)
Vacation accrual	12	12		2021
Derivatives – natural gas supply contracts ^(e)	122	117		
Amounts due from customers	110	36	Yes	(b)
Deferred pipeline integrity costs ^(c)	71	62		2023
Other	32	30		(b)
Total regulatory assets	455	363		
Less: current portion	153	73		
Total noncurrent regulatory assets	\$ 302	\$ 290		
Regulatory Liabilities^(a)				
Net regulatory liability related to income taxes	\$ 499	\$ 555		(b)
Costs of removal	575	574		(d)
Provision for rate refunds	6	41	Yes	
Accrued pension and OPEB ^(c)	3	3		(f)
Amounts to be refunded to customers	34	34	Yes	(b)
Other	15	5		(b)
Total regulatory liabilities	1,132	1,212		
Less: current portion	88	81		
Total noncurrent regulatory liabilities	\$ 1,044	\$ 1,131		

- (a) Regulatory assets and liabilities are excluded from rate base unless otherwise noted.
(b) The expected recovery or refund period varies or has not been determined.
(c) Included in rate base.
(d) Recovery over the life of the associated assets.
(e) Balance will fluctuate with changes in the market. Current contracts extend into 2031.
(f) Recovered primarily over the average remaining service periods or life expectancies of employees covered by the benefit plans. See Note 22 for additional detail.

COVID-19 Filings

North Carolina

On March 10, 2020, Governor Roy Cooper declared a state of emergency due to the COVID-19 pandemic. On March 19, 2020, the NCUC issued an order directing that utilities under its jurisdiction suspend disconnections for nonpayment of utility bills during the state of emergency and allow for customers to enter into payment arrangements to pay off arrearages accumulated during the state of emergency after the end of the state of emergency. Additionally, to help mitigate the financial impacts of the COVID-19 pandemic on their customers, on March 19, 2020, Piedmont filed a request with the NCUC seeking authorization to waive: (1) any late payment charges incurred by a residential or nonresidential customer, effective March 21, 2020; (2) the application of fees for checks returned for insufficient funds for residential and nonresidential customers; (3) the reconnection charge when a residential or nonresidential customer seeks to have service restored for those customers whose service was recently disconnected for nonpayment and to work with customers regarding the other requirements to restore service, including re-establishment of credit; and (4) the fees and charges associated with the use of credit cards or debit cards to pay residential electric utility bills, effective March 21, 2020. The NCUC granted Piedmont's request on March 20, 2020.

On July 29, 2020, the NCUC issued its Order Lifting Disconnection Moratorium and Allowing Collection of Arrearages Pursuant to Special Repayment Plans. The order contained the following: (1) public utilities may resume customer disconnections due to nonpayment for bills first rendered on or after September 1, 2020, after appropriate notice; (2) the late fee moratorium will continue through the end of the state of emergency or until further order of the commission; (3) Duke Energy utilities may reinstate fees for checks returned for insufficient funds as well as transaction fees for use of credit cards or debit cards for bills first rendered on or after September 1, 2020; and (4) no sooner than September 1, 2020, the collection of past-due or delinquent accounts accrued up to and including August 31, 2020, may proceed subject to conditions.

Normal billing practices resumed as of October 1, 2020, with the exception of billing of late payment charges. Service disconnections for nonpayment resumed on November 4, 2020. Customers were notified of the resumption of normal billing practices, the option of payment arrangements and where to find assistance, if necessary. The NCUC's moratorium for the billing of late payment charges is still in effect until further order from the NCUC. Piedmont cannot predict the outcome of this matter.

FINANCIAL STATEMENTS

REGULATORY MATTERS

South Carolina

On March 13, 2020, Governor Henry McMaster declared a state of emergency due to the COVID-19 pandemic. The governor also issued a letter on March 14, 2020, to the ORS Executive Director regarding the suspension of disconnection of essential utility services for nonpayment. On March 18, 2020, the PSCSC issued an order approving such waivers, and also approved waivers for regulations related to late fees and reconnect fees. The PSCSC's order also required utilities to track the financial impacts of actions taken pursuant to such waivers for possible reporting to the PSCSC.

On May 13, 2020, the ORS filed a letter with the PSCSC that included a request from Governor McMaster that utilities proceed with developing and implementing plans for phasing in normal business operations. On May 14, 2020, the PSCSC conditionally vacated the regulation waivers regarding termination of service and suspension of disconnect fees. Prior to termination, utilities are to refer past-due customers to local organizations for assistance and/or deferred payment arrangements. Piedmont filed a report on June 30, 2020, as required by PSCSC order, reporting revenue impact, costs and savings related to COVID-19 to date. Updates on cost impacts were filed on September 30, 2020, and on December 31, 2020, and included financial impacts through the end of August 2020, and the end of November 2020, respectively.

On September 30, 2020, Piedmont filed an update on its planned return to normal operations during the COVID-19 pandemic. Normal billing practices resumed as of October 1, 2020, and service disconnections for nonpayment resumed on November 4, 2020. Customers were notified of the resumption of normal billing practices, the option of payment arrangements and where to find assistance, if necessary.

Tennessee

On March 12, 2020, Governor Bill Lee declared a state of emergency due to the COVID-19 pandemic. In an effort to help mitigate the financial impacts of the COVID-19 pandemic on their customers, on March 20, 2020, Piedmont filed a request with the TPUC seeking authorization to waive, effective March 21, 2020: (1) any late payment charges incurred by a residential or nonresidential customer; (2) the application of fees for checks returned for insufficient funds for residential and nonresidential customers; and (3) the reconnection charge when a residential or nonresidential customer seeks to have service restored for those customers whose service was recently disconnected for nonpayment and to work with customers regarding the other requirements to restore service, including re-establishment of credit. The TPUC granted Piedmont's request by Order issued March 31, 2020. The Order also stated that customers were not relieved of their obligation to pay for utility services received.

The TPUC held its regularly scheduled Commission Conference electronically on August 10, 2020, and on September 16, 2020, issued an Order Lifting Suspension of Disconnections of Service for Lack of Payment with Conditions, effective August 29, 2020. The conditions relate to required customer communications, payment plan options for past-due amounts and ongoing reporting to the TPUC. Potential recovery of costs related to the COVID-19 pandemic may be considered in future, individual docketed proceedings.

On October 15, 2020, Piedmont filed a report on its planned return to normal operations during the COVID-19 pandemic. Normal billing practices resumed as of October 1, 2020, and service disconnections for nonpayment resumed on November 4, 2020. Customers were notified of the resumption of normal billing practices, the option of payment arrangements and where to find assistance, if necessary.

2020 Tennessee Rate Case

On July 2, 2020, Piedmont filed an application with the TPUC, its first general rate case in Tennessee in nine years, for a rate increase for retail customers of approximately \$30 million, which represents an approximate 15% increase in annual revenues. The rate increase is driven by significant infrastructure upgrade investments since its previous rate case. Approximately half of the plant additions being added to rate base are categories of capital investment not covered under the IMR mechanism, which was approved in 2013. Piedmont amended its requested increase to approximately \$26 million in December 2020. As authorized under Tennessee law, Piedmont implemented interim rates on January 2, 2021, at the level requested in its adjusted request. A settlement reached with the Tennessee Consumer Advocate in mid-January was filed with the TPUC on February 2, 2021. The settlement results in an increase of revenues of approximately \$16 million and a ROE of 9.8%. At a hearing on February 16, 2021, the TPUC voted to accept the settlement, with new rates effective January 2, 2021. Piedmont must refund customers the difference between bills previously rendered under interim rates and such bills if rendered under approved rates, plus interest.

2021 North Carolina Rate Case

On February 19, 2021, Piedmont filed notice with the NCUC of its intent to file a general rate case on or about March 22, 2021. Piedmont's last general rate case in North Carolina was filed in April 2019, with rates effective November 2019.

2019 North Carolina Rate Case

On April 1, 2019, Piedmont filed an application with the NCUC, its first general rate case in North Carolina in six years. On August 13, 2019, Piedmont, the Public Staff, and two groups representing industrial customers filed an Agreement and Stipulation Settlement resolving issues in the base rate proceeding, which included a return on equity of 9.7% and a capital structure of 52% equity and 48% debt. Other major components of the Stipulation included:

- An annual increase in revenues of \$109 million before consideration of riders associated with federal and state tax reform;
- A decrease through a rider mechanism of \$23 million per year to return unprotected federal EDIT over a five-year period and deferred revenues related to the federal rate reduction of \$37 million to be returned over one year;
- A decrease through a rider mechanism of \$21 million per year related to reductions in the North Carolina state income tax rate to be returned over a three-year period;
- An overall cap on net revenue increase of \$83 million. This will impact Piedmont beginning November 1, 2022, only if the company does not file another general rate case in the interim;

FINANCIAL STATEMENTS

REGULATORY MATTERS

- Continuation of the IMR mechanism; and
- Establishment of a new deferral mechanism for certain Distribution Integrity Management Program (DIMP) operations and maintenance expenses incurred effective November 1, 2019, and thereafter.

On October 31, 2019, the NCUC approved the Stipulation and the revised customer rates were effective November 1, 2019.

OTHER REGULATORY MATTERS

Atlantic Coast Pipeline, LLC

Atlantic Coast Pipeline (ACP pipeline) was planned to be an approximately 600-mile interstate natural gas pipeline running from West Virginia to North Carolina. Duke Energy indirectly owns a 47% interest, which is accounted for as an equity method investment through its Gas Utilities and Infrastructure segment.

On April 15, 2020, the United States District Court for the District of Montana granted partial summary judgment in favor of the plaintiffs in Northern Plains Resource Council v. U.S. Army Corps of Engineers (USACE) (Northern Plains), vacating USACE's Nationwide Permit 12 (NWP 12) and remanding it to USACE for consultation under the Endangered Species Act (ESA) of 1973. In Northern Plains, the court ruled that NWP 12 was unlawful because USACE did not consult under the ESA with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service prior to NWP 12's reissuance in 2017. Because NWP 12 has been vacated and its application enjoined, USACE currently has suspended verification of any new or pending applications under NWP 12 until further court action clarifies the situation.

On May 28, 2020, the U.S. Court of Appeals for the Ninth Circuit issued a ruling that limited the NWP 12 vacatur to energy infrastructure projects. In July 2020, the Supreme Court of the United States issued an order allowing other new oil and gas pipeline projects to use the NWP 12 process pending appeal to the U.S. Court of Appeals for the Ninth Circuit; however, that did not decrease the uncertainty associated with an eventual ruling. Together, these rulings indicated that the timeline to reinstate the necessary water crossing permits for ACP would likely cause further delays and cost increases.

On July 5, 2020, Dominion Energy, Inc. announced a sale of substantially all of its gas transmission and storage segment assets, operations core to the ACP pipeline project.

As a result of the uncertainty created by the NWP 12 rulings, the potential impact on the cost and schedule for the project, the ongoing legal challenges and the risk of additional legal challenges and delays through the construction period and Dominion's decision to sell substantially all of its gas transmission and storage segment assets, Duke Energy's Board of Directors and management decided that it was not prudent to continue to invest in the project. On July 5, 2020, Duke Energy and Dominion announced the cancellation of the ACP pipeline project.

As a result, Duke Energy recorded pretax charges to earnings of approximately \$2.1 billion for the year ended December 31, 2020, within Equity in (losses) earnings of unconsolidated affiliates on the Duke Energy Consolidated Statements of Operations. The tax benefit associated with this cancellation was \$393 million and is recorded in Income Tax Expense (Benefit) Expense on the Duke Energy Consolidated Statements of Operations. Additional charges of less than \$20 million are expected to be recorded within the next three years as ACP incurs obligations to exit operations.

As part of the pretax charges to earnings of approximately \$2.1 billion, Duke Energy has liabilities related to the cancellation of the ACP pipeline project of \$928 million and \$8 million within Other Current Liabilities and Other Noncurrent Liabilities, respectively, in the Gas Utilities and Infrastructure segment. The liability represents Duke Energy's obligation of approximately \$860 million to fund ACP's outstanding debt and \$76 million to satisfy remaining ARO requirements to restore construction sites.

See Notes 7 and 12 for additional information regarding this transaction.

Potential Coal Plant Retirements

The Subsidiary Registrants periodically file integrated resource plans (IRPs) with their state regulatory commissions. The IRPs provide a view of forecasted energy needs over a long term (10 to 20 years) and options being considered to meet those needs. IRPs filed by the Subsidiary Registrants included planning assumptions to potentially retire certain coal-fired generating facilities in North Carolina and Indiana earlier than their current estimated useful lives. Duke Energy continues to evaluate the potential need to retire these coal-fired generating facilities earlier than the current estimated useful lives and plans to seek regulatory recovery for amounts that would not be otherwise recovered when any of these assets are retired.

FINANCIAL STATEMENTS

REGULATORY MATTERS

The table below contains the net carrying value of generating facilities planned for retirement or included in recent IRPs as evaluated for potential retirement. Dollar amounts in the table below are included in Net property, plant and equipment on the Consolidated Balance Sheets as of December 31, 2020, and exclude capitalized asset retirement costs.

	Capacity (in MW)	Remaining Net Book Value (in millions)
Duke Energy Carolinas		
Allen Steam Station Units 1-3 ^(a)	604	\$ 113
Allen Steam Station Units 4-5 ^(b)	526	338
Cliffside Unit 5 ^(b)	546	350
Duke Energy Progress		
Mayo Unit 1 ^(b)	746	676
Roxboro Units 3-4 ^(b)	1,409	484
Duke Energy Florida		
Crystal River Units 4-5 ^(c)	1,430	1,696
Duke Energy Indiana		
Gallagher Units 2 and 4 ^(d)	280	102
Gibson Units 1-5 ^(e)	2,845	1,866
Cayuga Units 1-2 ^(e)	1,005	777
Total Duke Energy	9,391	\$ 6,402

- (a) As part of the 2015 resolution of a lawsuit involving alleged New Source Review violations, Duke Energy Carolinas must retire Allen Steam Station Units 1 through 3 by December 31, 2024. The long-term energy options considered in the IRP could result in retirement of these units earlier than their current estimated useful lives. Unit 3 with a capacity of 270 MW and a net book value of \$26 million at December 31, 2020, is expected to be retired in March 2021.
- (b) These units are included in the IRP filed by Duke Energy Carolinas and Duke Energy Progress in North Carolina and South Carolina on September 1, 2020. The long-term energy options considered in the IRP could result in retirement of these units earlier than their current estimated useful lives. In 2019, Duke Energy Carolinas and Duke Energy Progress filed North Carolina rate cases that included depreciation studies that accelerate end-of-life dates for these plants. A decision by NCUC is expected by the end of the first quarter 2021.
- (c) On January 14, 2021, Duke Energy Florida filed a settlement agreement with the FPSC, which proposed depreciation rates reflecting retirement dates for Duke Energy Florida's last two coal-fired generating facilities, Crystal River Units 4-5, eight years ahead of schedule in 2034 rather than in 2042, in support of Duke Energy's carbon reduction goals. A request for the FPSC to hold a hearing has been made and a decision by the FPSC is expected in the second quarter 2021.
- (d) Duke Energy Indiana committed to either retire or stop burning coal at Gallagher Units 2 and 4 by December 31, 2022, as part of the 2016 settlement of Edwardsport IGCC matters. In February 2021, upon approval by MISO of a new retirement date, Duke Energy Indiana determined it would modify the retirement date to June 1, 2021.
- (e) On July 1, 2019, Duke Energy Indiana filed its 2018 IRP with the IURC. The 2018 IRP included scenarios evaluating the potential retirement of coal-fired generating units at Gibson and Cayuga. The rate case filed July 2, 2019, included proposed depreciation rates reflecting retirement dates from 2026 to 2038. The depreciation rates reflecting these updated retirement dates were approved by the IURC as part of the rate case order issued on June 29, 2020.

4. COMMITMENTS AND CONTINGENCIES

INSURANCE

General Insurance

The Duke Energy Registrants have insurance and reinsurance coverage either directly or through indemnification from Duke Energy's captive insurance company, Bison, and its affiliates, consistent with companies engaged in similar commercial operations with similar type properties. The Duke Energy Registrants' coverage includes (i) commercial general liability coverage for liabilities arising to third parties for bodily injury and property damage; (ii) workers' compensation; (iii) automobile liability coverage; and (iv) property coverage for all real and personal property damage. Real and personal property damage coverage excludes electric transmission and distribution lines, but includes damages arising from boiler and machinery breakdowns, earthquakes, flood damage and extra expense, but not outage or replacement power coverage. All coverage is subject to certain deductibles or retentions, sublimits, exclusions, terms and conditions common for companies with similar types of operations. The Duke Energy Registrants self-insure their electric transmission and distribution lines against loss due to storm damage and other natural disasters. As discussed further in Note 3, Duke Energy Florida maintains a storm damage reserve and has a regulatory mechanism to recover the cost of named storms on an expedited basis.

The cost of the Duke Energy Registrants' coverage can fluctuate from year to year reflecting claims history and conditions of the insurance and reinsurance markets.

FINANCIAL STATEMENTS

COMMITMENTS AND CONTINGENCIES

In the event of a loss, terms and amounts of insurance and reinsurance available might not be adequate to cover claims and other expenses incurred. Uninsured losses and other expenses, to the extent not recovered by other sources, could have a material effect on the Duke Energy Registrants' results of operations, cash flows or financial position. Each company is responsible to the extent losses may be excluded or exceed limits of the coverage available.

Nuclear Insurance

Duke Energy Carolinas owns and operates McGuire and Oconee and operates and has a partial ownership interest in Catawba. McGuire and Catawba each have two reactors. Oconee has three reactors. The other joint owners of Catawba reimburse Duke Energy Carolinas for certain expenses associated with nuclear insurance per the Catawba joint owner agreements.

Duke Energy Progress owns and operates Robinson, Brunswick and Harris. Robinson and Harris each have one reactor. Brunswick has two reactors.

Duke Energy Florida owns Crystal River Unit 3, which permanently ceased operation in 2013 and reached a SAFSTOR condition in January 2018 after the successful transfer of all used nuclear fuel assemblies to an on-site dry cask storage facility.

In the event of a loss, terms and amounts of insurance available might not be adequate to cover property damage and other expenses incurred. Uninsured losses and other expenses, to the extent not recovered by other sources, could have a material effect on Duke Energy Carolinas', Duke Energy Progress' and Duke Energy Florida's results of operations, cash flows or financial position. Each company is responsible to the extent losses may be excluded or exceed limits of the coverage available.

Nuclear Liability Coverage

The Price-Anderson Act requires owners of nuclear reactors to provide for public nuclear liability protection per nuclear incident up to a maximum total financial protection liability. The maximum total financial protection liability, which is approximately \$13.8 billion, is subject to change every five years for inflation and for the number of licensed reactors. Total nuclear liability coverage consists of a combination of private primary nuclear liability insurance coverage and a mandatory industry risk-sharing program to provide for excess nuclear liability coverage above the maximum reasonably available private primary coverage. The U.S. Congress could impose revenue-raising measures on the nuclear industry to pay claims.

Primary Liability Insurance

Duke Energy Carolinas and Duke Energy Progress have purchased the maximum reasonably available private primary nuclear liability insurance as required by law, which is \$450 million per station. Duke Energy Florida has purchased \$100 million primary nuclear liability insurance in compliance with the law.

Excess Liability Program

This program provides \$13.3 billion of coverage per incident through the Price-Anderson Act's mandatory industry-wide excess secondary financial protection program of risk pooling. This amount is the product of potential cumulative retrospective premium assessments of \$138 million times the current 97 licensed commercial nuclear reactors in the U.S. Under this program, licensees could be assessed retrospective premiums to compensate for public nuclear liability damages in the event of a nuclear incident at any licensed facility in the U.S. Retrospective premiums may be assessed at a rate not to exceed \$20.5 million per year per licensed reactor for each incident. The assessment may be subject to state premium taxes.

Nuclear Property and Accidental Outage Coverage

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are members of Nuclear Electric Insurance Limited (NEIL), an industry mutual insurance company, which provides property damage, nuclear accident decontamination and premature decommissioning insurance for each station for losses resulting from damage to its nuclear plants, either due to accidents or acts of terrorism. Additionally, NEIL provides accidental outage coverage for losses in the event of a major accidental outage at an insured nuclear station.

Pursuant to regulations of the NRC, each company's property damage insurance policies provide that all proceeds from such insurance be applied, first, to place the plant in a safe and stable condition after a qualifying accident and second, to decontaminate the plant before any proceeds can be used for decommissioning, plant repair or restoration.

Losses resulting from acts of terrorism are covered as common occurrences, such that if terrorist acts occur against one or more commercial nuclear power plants insured by NEIL within a 12-month period, they would be treated as one event and the owners of the plants where the act occurred would share one full limit of liability. The full limit of liability is currently \$3.2 billion. NEIL sublimits the total aggregate for all of their policies for non-nuclear terrorist events to approximately \$1.8 billion.

Each nuclear facility has accident property damage, nuclear accident decontamination and premature decommissioning liability insurance from NEIL with limits of \$1.5 billion, except for Crystal River Unit 3. Crystal River Unit 3's limit is \$50 million and is on an actual cash value basis. All nuclear facilities except for Catawba and Crystal River Unit 3 also share an additional \$1.25 billion nuclear accident insurance limit above their dedicated underlying limit. This shared additional excess limit is not subject to reinstatement in the event of a loss. Catawba has a dedicated \$1.25 billion of additional nuclear accident insurance limit above its dedicated underlying limit. Catawba and Oconee also have an additional \$750 million of non-nuclear accident property damage limit. All coverages are subject to sublimits and significant deductibles.

FINANCIAL STATEMENTS

COMMITMENTS AND CONTINGENCIES

NEIL's Accidental Outage policy provides some coverage, similar to business interruption, for losses in the event of a major accident property damage outage of a nuclear unit. Coverage is provided on a weekly limit basis after a significant waiting period deductible and at 100% of the applicable weekly limits for 52 weeks and 80% of the applicable weekly limits for up to the next 110 weeks. Coverage is provided until these applicable weekly periods are met, where the accidental outage policy limit will not exceed \$490 million for McGuire and Catawba, \$434 million for Harris, \$420 million for Brunswick, \$392 million for Oconee and \$336 million for Robinson. NEIL sublimits the accidental outage recovery up to the first 104 weeks of coverage not to exceed \$328 million from non-nuclear accidental property damage. Coverage amounts decrease in the event more than one unit at a station is out of service due to a common accident. All coverages are subject to sublimits and significant deductibles.

Potential Retroactive Premium Assessments

In the event of NEIL losses, NEIL's board of directors may assess member companies' retroactive premiums of amounts up to 10 times their annual premiums for up to six years after a loss. NEIL has never exercised this assessment. The maximum aggregate annual retrospective premium obligations for Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are \$156 million, \$93 million and \$1 million, respectively. Duke Energy Carolinas' maximum assessment amount includes 100% of potential obligations to NEIL for jointly owned reactors. Duke Energy Carolinas would seek reimbursement from the joint owners for their portion of these assessment amounts.

ENVIRONMENTAL

The Duke Energy Registrants are subject to federal, state and local laws regarding air and water quality, hazardous and solid waste disposal, coal ash and other environmental matters. These laws can be changed from time to time, imposing new obligations on the Duke Energy Registrants. The following environmental matters impact all of the Duke Energy Registrants.

Remediation Activities

In addition to the ARO recorded as a result of various environmental regulations, discussed in Note 9, the Duke Energy Registrants are responsible for environmental remediation at various sites. These include certain properties that are part of ongoing operations and sites formerly owned or used by Duke Energy entities. These sites are in various stages of investigation, remediation and monitoring. Managed in conjunction with relevant federal, state and local agencies, remediation activities vary based upon site conditions and location, remediation requirements, complexity and sharing of responsibility. If remediation activities involve joint and several liability provisions, strict liability, or cost recovery or contribution actions, the Duke Energy Registrants could potentially be held responsible for environmental impacts caused by other potentially responsible parties and may also benefit from insurance policies or contractual indemnities that cover some or all cleanup costs. Liabilities are recorded when losses become probable and are reasonably estimable. The total costs that may be incurred cannot be estimated because the extent of environmental impact, allocation among potentially responsible parties, remediation alternatives and/or regulatory decisions have not yet been determined at all sites. Additional costs associated with remediation activities are likely to be incurred in the future and could be significant. Costs are typically expensed as Operation, maintenance and other in the Consolidated Statements of Operations unless regulatory recovery of the costs is deemed probable.

The following tables contain information regarding reserves for probable and estimable costs related to the various environmental sites. These reserves are recorded in Other within Other Noncurrent Liabilities on the Consolidated Balance Sheets.

(in millions)	December 31, 2020	December 31, 2019
Reserves for Environmental Remediation		
Duke Energy	\$ 75	\$ 58
Duke Energy Carolinas	19	11
Progress Energy	19	16
Duke Energy Progress	6	4
Duke Energy Florida	12	9
Duke Energy Ohio	22	19
Duke Energy Indiana	6	4
Piedmont	10	8

Additional losses in excess of recorded reserves that could be incurred for the stages of investigation, remediation and monitoring for environmental sites that have been evaluated at this time are not material except as presented in the table below.

(in millions)	
Duke Energy	\$ 25
Duke Energy Carolinas	12
Duke Energy Ohio	4
Piedmont	2

FINANCIAL STATEMENTS

COMMITMENTS AND CONTINGENCIES

LITIGATION

Duke Energy Carolinas and Duke Energy Progress

Coal Ash Insurance Coverage Litigation

In March 2017, Duke Energy Carolinas and Duke Energy Progress filed a civil action in the North Carolina Business Court against various insurance providers. The lawsuit seeks payment for coal ash related liabilities covered by third-party liability insurance policies. The insurance policies were issued between 1971 and 1986 and provide third-party liability insurance for property damage. The civil action seeks damages for breach of contract and indemnification for costs arising from the Coal Ash Act and the EPA CCR rule at 15 coal-fired plants in North Carolina and South Carolina. Fact discovery has been completed. The parties filed dispositive pretrial motions relating to key legal issues on December 4, 2020. Hearings on these motions are scheduled to begin on February 24, 2021, and trial is scheduled for January 24, 2022. Duke Energy Carolinas and Duke Energy Progress cannot predict the outcome of this matter.

Duke Energy Carolinas

NTE Carolinas II, LLC Litigation

In November 2017, Duke Energy Carolinas entered into a standard FERC large generator interconnection agreement (LGIA) with NTE Carolinas II, LLC (NTE), a company that proposed to build a combined-cycle natural gas plant in Rockingham County, North Carolina. On September 6, 2019, Duke Energy Carolinas filed a lawsuit in Mecklenburg County Superior Court against NTE for breach of contract and alleging that NTE's failure to pay benchmark payments for Duke Energy Carolinas' transmission system upgrades required under the interconnection agreement constituted a termination of the interconnection agreement. Duke Energy Carolinas is seeking a monetary judgment against NTE because NTE failed to make multiple milestone payments. The lawsuit was moved to federal court in North Carolina. NTE filed a motion to dismiss Duke Energy Carolinas' complaint and brought counterclaims alleging anti-competitive conduct and violations of state and federal statutes. Duke Energy Carolinas filed a motion to dismiss NTE's counterclaims.

On May 21, 2020, in response to a NTE petition challenging Duke Energy Carolinas' termination of the LGIA, FERC issued a ruling (i) that it has exclusive jurisdiction to determine whether a transmission provider may terminate a LGIA, (ii) FERC approval is required to terminate a conforming LGIA if objected to by the interconnection customer, and (iii) Duke Energy may not announce the termination of a conforming LGIA unless FERC has approved the termination.

On August 17, 2020, the court denied both NTE's and Duke Energy Carolinas' Motion to Dismiss. The parties are in active discovery and trial is scheduled for June 20, 2022. Duke Energy Carolinas cannot predict the outcome of this matter.

Asbestos-related Injuries and Damages Claims

Duke Energy Carolinas has experienced numerous claims for indemnification and medical cost reimbursement related to asbestos exposure. These claims relate to damages for bodily injuries alleged to have arisen from exposure to or use of asbestos in connection with construction and maintenance activities conducted on its electric generation plants prior to 1985. As of December 31, 2020, there were 145 asserted claims for non-malignant cases with the cumulative relief sought of up to \$39 million and 56 asserted claims for malignant cases with the cumulative relief sought of up to \$20 million. Based on Duke Energy Carolinas' experience, it is expected that the ultimate resolution of most of these claims likely will be less than the amount claimed.

Duke Energy Carolinas has recognized asbestos-related reserves of \$572 million and \$604 million at December 31, 2020, and 2019, respectively. These reserves are classified in Other within Other Noncurrent Liabilities and Other within Current Liabilities on the Consolidated Balance Sheets. These reserves are based upon Duke Energy Carolinas' best estimate for current and future asbestos claims through 2040 and are recorded on an undiscounted basis. In light of the uncertainties inherent in a longer-term forecast, management does not believe they can reasonably estimate the indemnity and medical costs that might be incurred after 2040 related to such potential claims. It is possible Duke Energy Carolinas may incur asbestos liabilities in excess of the recorded reserves.

Duke Energy Carolinas has third-party insurance to cover certain losses related to asbestos-related injuries and damages above an aggregate self-insured retention. Duke Energy Carolinas' cumulative payments began to exceed the self-insurance retention in 2008. Future payments up to the policy limit will be reimbursed by the third-party insurance carrier. The insurance policy limit for potential future insurance recoveries indemnification and medical cost claim payments is \$714 million in excess of the self-insured retention. Receivables for insurance recoveries were \$704 million and \$742 million at December 31, 2020, and 2019, respectively. These amounts are classified in Other within Other Noncurrent Assets and Receivables within Current Assets on the Consolidated Balance Sheets. Duke Energy Carolinas is not aware of any uncertainties regarding the legal sufficiency of insurance claims. Duke Energy Carolinas believes the insurance recovery asset is probable of recovery as the insurance carrier continues to have a strong financial strength rating.

As described in Note 1, Duke Energy adopted the new guidance for credit losses effective January 1, 2020, using the modified retrospective method of adoption, which does not require restatement of prior year reported results. The reserve for credit losses for insurance receivables for the asbestos-related injuries and damages based on adoption of the new standard is \$15 million for Duke Energy and Duke Energy Carolinas as of December 31, 2020. The insurance receivable is evaluated based on the risk of default and the historical losses, current conditions and expected conditions around collectability. Management evaluates the risk of default annually based on payment history, credit rating and changes in the risk of default from credit agencies.

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FINANCIAL STATEMENTS

COMMITMENTS AND CONTINGENCIES

Duke Energy Progress and Duke Energy Florida

Spent Nuclear Fuel Matters

On June 18, 2018, Duke Energy Progress and Duke Energy Florida sued the U.S. in the U.S. Court of Federal Claims for damages incurred for the period 2014 through 2018. The lawsuit claimed the Department of Energy breached a contract in failing to accept spent nuclear fuel under the Nuclear Waste Policy Act of 1982 and asserted damages for the cost of on-site storage in the amount of \$100 million and \$200 million for Duke Energy Progress and Duke Energy Florida, respectively. Discovery is ongoing and a trial is expected to occur in 2021.

Duke Energy Florida

Power Purchase Dispute Arbitration

Duke Energy Florida, on behalf of its customers, entered into a PPA for the purchase of firm capacity and energy from a qualifying facility under the Public Utilities Regulatory Policies Act of 1978. Duke Energy Florida determined the qualifying facility did not perform in accordance with the PPA, and Duke Energy Florida terminated the PPA. The qualifying facility counterparty filed a confidential American Arbitration Association (AAA) arbitration demand, challenging the termination of the PPA and seeking damages. Duke Energy Florida denies liability and is vigorously defending the arbitration claim.

The final arbitration hearing occurred during the week of December 7, 2020. An arbitral award has not yet been issued. Duke Energy Florida cannot predict the outcome of this matter.

Duke Energy Indiana

Coal Ash Basin Closure Plan Appeal

On January 27, 2020, Hoosier Environmental Council filed a Petition for Administrative Review with the Indiana Office of Environmental Adjudication (the court) challenging the Indiana Department of Environmental Management's December 10, 2019, partial approval of Duke Energy Indiana's ash pond closure plan. On March 11, 2020, Duke Energy Indiana filed a Motion to Dismiss. On May 5, 2020, the court denied the motion. The parties have completed discovery and will now prepare to file dispositive motions. Summary judgment briefing will be completed by March 30, 2021. If these claims survive dispositive motions, a hearing is scheduled for April 26, 2021. Duke Energy Indiana cannot predict the outcome of this matter. See Note 9 for additional information.

Other Litigation and Legal Proceedings

The Duke Energy Registrants are involved in other legal, tax and regulatory proceedings arising in the ordinary course of business, some of which involve significant amounts. The Duke Energy Registrants believe the final disposition of these proceedings will not have a material effect on their results of operations, cash flows or financial position.

The table below presents recorded reserves based on management's best estimate of probable loss for legal matters, excluding asbestos-related reserves. Reserves are classified on the Consolidated Balance Sheets in Other within Other Noncurrent Liabilities and Other within Current Liabilities. The reasonably possible range of loss in excess of recorded reserves is not material, other than as described above.

(in millions)	December 31,	
	2020	2019
Reserves for Legal Matters		
Duke Energy	\$ 68	\$ 62
Duke Energy Carolinas	2	2
Progress Energy	61	55
Duke Energy Progress	13	12
Duke Energy Florida	28	22
Piedmont	1	1

OTHER COMMITMENTS AND CONTINGENCIES

General

As part of their normal business, the Duke Energy Registrants are party to various financial guarantees, performance guarantees and other contractual commitments to extend guarantees of credit and other assistance to various subsidiaries, investees and other third parties. These guarantees involve elements of performance and credit risk, which are not fully recognized on the Consolidated Balance Sheets and have uncapped maximum potential payments. See Note 7 for more information.

Purchase Obligations

Purchased Power

Duke Energy Progress, Duke Energy Florida and Duke Energy Ohio have ongoing purchased power contracts, including renewable energy contracts, with other utilities, wholesale marketers, co-generators and qualified facilities. These purchased power contracts generally provide for capacity and energy payments. In addition, Duke Energy Progress and Duke Energy Florida have various contracts to secure transmission rights.

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SEP 13 2021

FINANCIAL STATEMENTS

COMMITMENTS AND CONTINGENCIES

The following table presents executory purchased power contracts with terms exceeding one year, excluding contracts classified as leases.

	Minimum Purchase Amount at December 31, 2020								
(in millions)	Contract Expiration	2021	2022	2023	2024	2025	Thereafter	Total	
Duke Energy Progress ^(a)	2025-2032	\$ 66	\$ 73	\$ 66	\$ 67	\$ 69	\$ 69	\$ 410	
Duke Energy Florida ^(b)	2023-2025	335	354	374	262	91	—	1,416	
Duke Energy Ohio ^{(c)(d)}	2022	130	55	—	—	—	—	185	

- (a) Contracts represent either 100% of net plant output or vary.
(b) Contracts represent 100% of net plant output.
(c) Contracts represent between 1% and 11% of net plant output.
(d) Excludes PPA with OVEC. See Note 17 for additional information.

Gas Supply and Capacity Contracts

Duke Energy Ohio and Piedmont routinely enter into long-term natural gas supply commodity and capacity commitments and other agreements that commit future cash flows to acquire services needed in their businesses. These commitments include pipeline and storage capacity contracts and natural gas supply contracts to provide service to customers. Costs arising from the natural gas supply commodity and capacity commitments, while significant, are pass-through costs to customers and are generally fully recoverable through the fuel adjustment or PGA procedures and prudence reviews in North Carolina and South Carolina and under the Tennessee Incentive Plan in Tennessee. In the Midwest, these costs are recovered via the Gas Cost Recovery Rate in Ohio or the Gas Cost Adjustment Clause in Kentucky. The time periods for fixed payments under pipeline and storage capacity contracts are up to 15 years. The time periods for fixed payments under natural gas supply contracts are up to six years. The time period for the natural gas supply purchase commitments is up to 11 years.

Certain storage and pipeline capacity contracts require the payment of demand charges that are based on rates approved by the FERC in order to maintain rights to access the natural gas storage or pipeline capacity on a firm basis during the contract term. The demand charges that are incurred in each period are recognized in the Consolidated Statements of Operations and Comprehensive Income as part of natural gas purchases and are included in Cost of natural gas.

The following table presents future unconditional purchase obligations under natural gas supply and capacity contracts as of December 31, 2020.

(in millions)	Duke Energy	Duke Energy Ohio	Piedmont
2021	\$ 311	\$ 41	\$ 270
2022	270	28	242
2023	197	20	177
2024	139	17	122
2025	125	14	111
Thereafter	662	60	602
Total	\$ 1,704	\$ 180	\$ 1,524

5. LEASES

As part of its operations, Duke Energy leases certain aircraft, space on communication towers, industrial equipment, fleet vehicles, fuel transportation (barges and railcars), land and office space under various terms and expiration dates. Additionally, Duke Energy Carolinas, Duke Energy Progress and Duke Energy Indiana have finance leases related to firm natural gas pipeline transportation capacity. Duke Energy Progress and Duke Energy Florida have entered into certain PPAs, which are classified as finance and operating leases.

Duke Energy has certain lease agreements, which include variable lease payments that are based on the usage of an asset. These variable lease payments are not included in the measurement of the ROU assets or operating lease liabilities on the Consolidated Financial Statements.

Certain Duke Energy lease agreements include options for renewal and early termination. The intent to renew a lease varies depending on the lease type and asset. Renewal options that are reasonably certain to be exercised are included in the lease measurements. The decision to terminate a lease early is dependent on various economic factors. No termination options have been included in any of the lease measurements.

Duke Energy Carolinas entered into a sale-leaseback arrangement in December 2019, to construct and occupy an office tower. The lease agreement was evaluated as a sale-leaseback of real estate and it was determined that the transaction did not qualify for sale-leaseback accounting. As a result, the transaction is being accounted for as a financing. For this transaction, Duke Energy Carolinas will continue to record the real estate on the Consolidated Balance Sheets within Property, Plant and Equipment as if it were the legal owner and will continue to recognize depreciation expense over the estimated useful life. In addition, a liability will be recorded for the failed sale-leaseback obligation within Long-Term Debt on the Consolidated Balance Sheets, with the monthly lease payments commencing after the construction phase being split between interest expense and principal pay down of the debt.

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SEP 13 2021

FINANCIAL STATEMENTS

LEASES

Duke Energy operates various renewable energy projects and sells the generated output to utilities, electric cooperatives, municipalities and commercial and industrial customers through long-term PPAs. In certain situations, these PPAs and the associated renewable energy projects qualify as operating leases. Rental income from these leases is accounted for as Nonregulated electric and other revenues in the Consolidated Statements of Operations. There are no minimum lease payments as all payments are contingent based on actual electricity generated by the renewable energy projects. Contingent lease payments were \$275 million, \$264 million and \$268 million for the years ended December 31, 2020, 2019, and 2018, respectively. Renewable energy projects owned by Duke Energy and accounted for as operating leases had a cost basis of \$3,335 million and \$3,349 million and accumulated depreciation of \$848 million and \$721 million at December 31, 2020, and 2019, respectively. These assets are principally classified as nonregulated electric generation and transmission assets.

Piedmont has certain agreements with Duke Energy Carolinas for the construction and transportation of natural gas pipelines to supply its natural gas plant needs. Piedmont accounts for these pipeline lateral contracts as sales-type leases since the present value of the sum of the lease payments equals the fair value of the assets. These pipeline lateral assets owned by Piedmont had a current net investment basis of \$2 million and \$4 million as of December 31, 2020, and 2019, respectively, and a long-term net investment basis of \$205 million and \$70 million as of December 31, 2020, and 2019, respectively. These assets are classified in Other, within Current Assets and Other Noncurrent Assets, respectively, on Piedmont's Consolidated Balance Sheets. Duke Energy Carolinas accounts for the contracts as finance leases. The activity for these contracts is eliminated in consolidation at Duke Energy.

The following tables present the components of lease expense.

(in millions)	Year Ended December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Operating lease expense ^(a)	\$ 283	\$ 53	\$ 162	\$ 72	\$ 90	\$ 11	\$ 19	\$ 7
Short-term lease expense ^(a)	4	—	2	1	1	—	1	—
Variable lease expense ^(a)	30	13	13	5	8	—	1	1
Finance lease expense								
Amortization of leased assets ^(b)	119	8	24	6	18	—	1	—
Interest on lease liabilities ^(c)	61	30	44	37	7	—	—	—
Total finance lease expense	180	38	68	43	25	—	1	—
Total lease expense	\$ 497	\$ 104	\$ 245	\$ 121	\$ 124	\$ 11	\$ 22	\$ 8

- (a) Included in Operations, maintenance and other or, for barges and railcars, Fuel used in electric generation and purchased power on the Consolidated Statements of Operations.
(b) Included in Depreciation and amortization on the Consolidated Statements of Operations.
(c) Included in Interest Expense on the Consolidated Statements of Operations.

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Operating lease expense ^(a)	\$ 292	\$ 47	\$ 161	\$ 69	\$ 92	\$ 11	\$ 20	\$ 5
Short-term lease expense ^(a)	16	5	9	4	5	1	2	—
Variable lease expense ^(a)	47	22	22	16	6	—	1	1
Finance lease expense								
Amortization of leased assets ^(b)	111	6	21	5	16	1	—	—
Interest on lease liabilities ^(c)	61	15	42	33	9	—	1	—
Total finance lease expense	172	21	63	38	25	1	1	—
Total lease expense	\$ 527	\$ 95	\$ 255	\$ 127	\$ 128	\$ 13	\$ 24	\$ 6

- (a) Included in Operations, maintenance and other or, for barges and railcars, Fuel used in electric generation and purchased power on the Consolidated Statements of Operations.
(b) Included in Depreciation and amortization on the Consolidated Statements of Operations.
(c) Included in Interest Expense on the Consolidated Statements of Operations.

FINANCIAL STATEMENTS

LEASES

The following table presents rental expense for operating leases, as reported under the former lease standard. These amounts are included in Operation, maintenance and other and Fuel used in electric generation and purchased power on the Consolidated Statements of Operations.

(in millions)	Year Ended	
	December 31, 2018	
Duke Energy	\$	268
Duke Energy Carolinas		49
Progress Energy		143
Duke Energy Progress		75
Duke Energy Florida		68
Duke Energy Ohio		13
Duke Energy Indiana		21
Piedmont		11

The following table presents operating lease maturities and a reconciliation of the undiscounted cash flows to operating lease liabilities.

(in millions)	December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
2021	\$ 229	\$ 24	\$ 99	\$ 44	\$ 55	\$ 2	\$ 5	\$ 5
2022	212	22	95	40	55	2	4	5
2023	202	20	95	41	54	2	4	5
2024	186	14	95	41	54	2	4	5
2025	162	10	85	31	54	2	4	5
Thereafter	870	51	376	252	124	20	59	—
Total operating lease payments	1,861	141	845	449	396	30	80	25
Less: present value discount	(344)	(24)	(149)	(95)	(54)	(9)	(24)	(2)
Total operating lease liabilities ^(a)	\$ 1,517	\$ 117	\$ 696	\$ 354	\$ 342	\$ 21	\$ 56	\$ 23

(a) Certain operating lease payments include renewal options that are reasonably certain to be exercised.

The following table presents finance lease maturities and a reconciliation of the undiscounted cash flows to finance lease liabilities.

(in millions)	December 31, 2020						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Indiana	Duke Energy
2021	\$ 186	\$ 38	\$ 68	\$ 43	\$ 25	\$ 1	
2022	173	38	68	43	25	1	
2023	174	38	68	43	25	1	
2024	119	38	52	43	9	1	
2025	51	38	48	43	5	1	
Thereafter	762	502	481	475	6	26	
Total finance lease payments	1,465	692	785	690	95	31	
Less: amounts representing interest	(620)	(398)	(408)	(394)	(14)	(21)	
Total finance lease liabilities	\$ 845	\$ 294	\$ 377	\$ 296	\$ 81	\$ 10	

FINANCIAL STATEMENTS

LEASES

The following tables contain additional information related to leases.

		December 31, 2020							
(in millions)	Classification	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Assets									
Operating	Operating lease ROU assets, net	\$ 1,524	\$ 110	\$ 690	\$ 346	\$ 344	\$ 20	\$ 55	\$ 20
Finance	Net property, plant and equipment	797	312	416	297	119	—	7	—
Total lease assets		\$ 2,321	\$ 422	\$ 1,106	\$ 643	\$ 463	\$ 20	\$ 62	\$ 20
Liabilities									
Current									
Operating	Other current liabilities	\$ 177	\$ 20	\$ 73	\$ 31	\$ 42	\$ 1	\$ 3	\$ 4
Finance	Current maturities of long-term debt	129	5	26	7	19	—	—	—
Noncurrent									
Operating	Operating lease liabilities	1,340	97	623	323	300	20	53	19
Finance	Long-Term Debt	716	289	351	289	62	—	10	—
Total lease liabilities		\$ 2,362	\$ 411	\$ 1,073	\$ 650	\$ 423	\$ 21	\$ 66	\$ 23

		December 31, 2019							
(in millions)	Classification	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Assets									
Operating	Operating lease ROU assets, net	\$ 1,658	\$ 123	\$ 788	\$ 387	\$ 401	\$ 21	\$ 57	\$ 24
Finance	Net property, plant and equipment	926	198	443	308	135	—	7	—
Total lease assets		\$ 2,584	\$ 321	\$ 1,231	\$ 695	\$ 536	\$ 21	\$ 64	\$ 24
Liabilities									
Current									
Operating	Other current liabilities	\$ 208	\$ 27	\$ 95	\$ 37	\$ 58	\$ 1	\$ 3	\$ 4
Finance	Current maturities of long-term debt	119	7	24	6	18	—	—	—
Noncurrent									
Operating	Operating lease liabilities	1,432	102	697	354	343	21	55	23
Finance	Long-Term Debt	850	172	381	301	80	—	10	—
Total lease liabilities		\$ 2,609	\$ 308	\$ 1,197	\$ 698	\$ 499	\$ 22	\$ 68	\$ 27

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Step 13 2021

FINANCIAL STATEMENTS

LEASES

(in millions)	Year Ended December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Cash paid for amounts included in the measurement of lease liabilities^(a)								
Operating cash flows from operating leases	\$ 271	\$ 31	\$ 124	\$ 52	\$ 72	\$ 2	\$ 6	\$ 5
Operating cash flows from finance leases	61	30	44	37	7	—	—	—
Financing cash flows from finance leases	119	8	24	6	18	—	1	—
Lease assets obtained in exchange for new lease liabilities (non-cash)								
Operating ^(b)	\$ 116	\$ 17	\$ —	\$ —	\$ —	\$ —	\$ 1	\$ —
Finance	125	125	—	—	—	—	—	—

(a) No amounts were classified as investing cash flows from operating leases for the year ended December 31, 2020.

(b) Does not include ROU assets recorded as a result of the adoption of the new lease standard.

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Cash paid for amounts included in the measurement of lease liabilities^(a)								
Operating cash flows from operating leases	\$ 285	\$ 34	\$ 131	\$ 53	\$ 78	\$ 2	\$ 7	\$ 7
Operating cash flows from finance leases	61	15	42	33	9	—	1	—
Financing cash flows from finance leases	111	6	21	5	16	1	—	—
Lease assets obtained in exchange for new lease liabilities (non-cash)								
Operating ^(b)	\$ 194	\$ 44	\$ 30	\$ 30	\$ —	\$ —	\$ —	\$ 1
Finance	251	76	175	175	—	—	—	—

(a) No amounts were classified as investing cash flows from operating leases for the year ended December 31, 2019.

(b) Does not include ROU assets recorded as a result of the adoption of the new lease standard.

	December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Weighted average remaining lease term (years)								
Operating leases	10	9	10	12	8	17	18	5
Finance leases	13	19	15	17	11	—	25	—
Weighted average discount rate^(a)								
Operating leases	3.8 %	3.4 %	3.8 %	3.9 %	3.8 %	4.2 %	4.2 %	3.6 %
Finance leases	8.4 %	11.6 %	11.9 %	12.4 %	8.2 %	— %	11.9 %	— %

(a) The discount rate is calculated using the rate implicit in a lease if it is readily determinable. Generally, the rate used by the lessor is not provided to Duke Energy and in these cases the incremental borrowing rate is used. Duke Energy will typically use its fully collateralized incremental borrowing rate as of the commencement date to calculate and record the lease. The incremental borrowing rate is influenced by the lessee's credit rating and lease term and as such may differ for individual leases, embedded leases or portfolios of leased assets.

FINANCIAL STATEMENTS

LEASES

	December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Weighted average remaining lease term (years)								
Operating leases	11	9	10	12	8	17	18	6
Finance leases	13	19	16	18	11	—	26	—
Weighted average discount rate^(a)								
Operating leases	3.9 %	3.5 %	3.8 %	3.9 %	3.8 %	4.2 %	4.1 %	3.6 %
Finance leases	8.1 %	11.8 %	11.9 %	12.4 %	8.3 %	— %	11.9 %	— %

- (a) The discount rate is calculated using the rate implicit in a lease if it is readily determinable. Generally, the rate used by the lessor is not provided to Duke Energy and in these cases the incremental borrowing rate is used. Duke Energy will typically use its fully collateralized incremental borrowing rate as of the commencement date to calculate and record the lease. The incremental borrowing rate is influenced by the lessee's credit rating and lease term and as such may differ for individual leases, embedded leases or portfolios of leased assets.

6. DEBT AND CREDIT FACILITIES

Summary of Debt and Related Terms

The following tables summarize outstanding debt.

	December 31, 2020								
	Weighted Average Interest Rate	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
(in millions)									
Unsecured debt, maturing 2021-2078	3.71 %	\$23,669	\$ 1,150	\$ 3,150	\$ 700	\$ 350	\$ 1,180	\$ 403	\$ 2,800
Secured debt, maturing 2021-2052	2.67 %	4,270	543	1,584	252	1,332	—	—	—
First mortgage bonds, maturing 2021-2050 ^(a)	4.00 %	29,177	10,008	14,100	7,875	6,225	1,850	3,219	—
Finance leases, maturing 2022-2051 ^(b)	6.96 %	845	294	377	296	81	—	10	—
Tax-exempt bonds, maturing 2027-2041 ^(c)	0.75 %	477	—	48	48	—	77	352	—
Notes payable and commercial paper ^(d)	0.51 %	3,407	—	—	—	—	—	—	—
Money pool/intercompany borrowings	—	—	806	3,119	445	196	194	281	530
Fair value hedge carrying value adjustment		4	4	—	—	—	—	—	—
Unamortized debt discount and premium, net ^(e)		1,217	(20)	(31)	(19)	(11)	(29)	(18)	(5)
Unamortized debt issuance costs ^(f)		(330)	(62)	(113)	(44)	(62)	(14)	(25)	(15)
Total debt	3.62 %	\$62,736	\$ 12,723	\$ 22,234	\$ 9,553	\$ 8,111	\$ 3,258	\$ 4,222	\$ 3,310
Short-term notes payable and commercial paper		(2,873)	—	—	—	—	—	—	—
Short-term money pool/intercompany borrowings		—	(506)	(2,969)	(295)	(196)	(169)	(131)	(530)
Current maturities of long-term debt ^(g)		(4,238)	(506)	(1,426)	(603)	(823)	(50)	(70)	(160)
Total long-term debt^(g)		\$55,625	\$ 11,711	\$ 17,839	\$ 8,655	\$ 7,092	\$ 3,039	\$ 4,021	\$ 2,620

FINANCIAL STATEMENTS

DEBT AND CREDIT FACILITIES

- (a) Substantially all electric utility property is mortgaged under mortgage bond indentures.
- (b) Duke Energy includes \$24 million and \$341 million of finance lease purchase accounting adjustments related to Duke Energy Progress and Duke Energy Florida, respectively, related to PPAs that are not accounted for as finance leases in their respective financial statements because of grandfathering provisions in GAAP.
- (c) Substantially all tax-exempt bonds are secured by first mortgage bonds, letters of credit or the Master Credit Facility.
- (d) Includes \$625 million classified as Long-Term Debt on the Consolidated Balance Sheets due to the existence of long-term credit facilities that backstop these commercial paper balances, along with Duke Energy's ability and intent to refinance these balances on a long-term basis. The weighted average days to maturity for Duke Energy's commercial paper program was 23 days.
- (e) Duke Energy includes \$1,196 million and \$117 million in purchase accounting adjustments related to Progress Energy and Piedmont, respectively.
- (f) Duke Energy includes \$33 million in purchase accounting adjustments primarily related to the merger with Progress Energy.
- (g) Refer to Note 17 for additional information on amounts from consolidated VIEs.

December 31, 2019									
(in millions)	Weighted Average Interest Rate	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unsecured debt, maturing 2020-2078	4.02 %	\$ 22,477	\$ 1,150	\$ 3,650	\$ 700	\$ 350	\$ 1,110	\$ 405	\$ 2,399
Secured debt, maturing 2020-2052	3.30 %	4,537	544	1,722	335	1,387	—	—	—
First mortgage bonds, maturing 2020-2049 ^(a)	4.13 %	27,977	9,557	13,800	7,575	6,225	1,449	3,169	—
Finance leases, maturing 2022-2051 ^(b)	6.60 %	969	179	405	307	98	—	10	—
Tax-exempt bonds, maturing 2022-2041 ^(c)	2.90 %	730	243	48	48	—	77	362	—
Notes payable and commercial paper ^(d)	1.98 %	3,588	—	—	—	—	—	—	—
Money pool/intercompany borrowings		—	329	1,970	216	—	337	180	476
Fair value hedge carrying value adjustment		5	5	—	—	—	—	—	—
Unamortized debt discount and premium, net ^(e)		1,294	(23)	(29)	(17)	(11)	(30)	(19)	(2)
Unamortized debt issuance costs ^(f)		(316)	(55)	(111)	(40)	(62)	(12)	(20)	(13)
Total debt	3.92 %	\$ 61,261	\$ 11,929	\$ 21,455	\$ 9,124	\$ 7,987	\$ 2,931	\$ 4,087	\$ 2,860
Short-term notes payable and commercial paper		(3,135)	—	—	—	—	—	—	—
Short-term money pool/intercompany borrowings		—	(29)	(1,821)	(66)	—	(312)	(30)	(476)
Current maturities of long-term debt ^(g)		(3,141)	(458)	(1,577)	(1,006)	(571)	—	(503)	—
Total long-term debt^(g)		\$ 54,985	\$ 11,442	\$ 18,057	\$ 8,052	\$ 7,416	\$ 2,619	\$ 3,554	\$ 2,384

- (a) Substantially all electric utility property is mortgaged under mortgage bond indentures.
- (b) Duke Energy includes \$44 million and \$419 million of finance lease purchase accounting adjustments related to Duke Energy Progress and Duke Energy Florida, respectively, related to PPAs that are not accounted for as finance leases in their respective financial statements because of grandfathering provisions in GAAP.
- (c) Substantially all tax-exempt bonds are secured by first mortgage bonds, letters of credit or the Master Credit Facility.
- (d) Includes \$625 million that was classified as Long-Term Debt on the Consolidated Balance Sheets due to the existence of long-term credit facilities that backstop these commercial paper balances, along with Duke Energy's ability and intent to refinance these balances on a long-term basis. The weighted average days to maturity for Duke Energy's commercial paper programs was 14 days.
- (e) Duke Energy includes \$1,275 million and \$137 million in purchase accounting adjustments related to Progress Energy and Piedmont, respectively.
- (f) Duke Energy includes \$37 million in purchase accounting adjustments primarily related to the merger with Progress Energy.
- (g) Refer to Note 17 for additional information on amounts from consolidated VIEs.

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Step 13 2021

FINANCIAL STATEMENTS

DEBT AND CREDIT FACILITIES

Current Maturities of Long-Term Debt

The following table shows the significant components of Current maturities of Long-Term Debt on the Consolidated Balance Sheets. The Duke Energy Registrants currently anticipate satisfying these obligations with cash on hand and proceeds from additional borrowings.

(in millions)	Maturity Date	Interest Rate	December 31, 2020
Unsecured Debt^(a)			
Duke Energy (Parent)	May 2021	0.721 % ^(b)	\$ 500
Piedmont	June 2021	4.240 %	160
Duke Energy (Parent)	September 2021	3.550 %	500
Duke Energy (Parent)	September 2021	1.800 %	750
Duke Energy Florida	November 2021	0.482 % ^(b)	200
Secured Debt			
Duke Energy Florida	April 2021	0.972 % ^(b)	250
First Mortgage Bonds			
Duke Energy Carolinas	June 2021	3.900 %	500
Duke Energy Florida	August 2021	3.100 %	300
Duke Energy Progress	September 2021	3.000 %	500
Duke Energy Progress	September 2021	8.625 %	100
Other^(c)			478
Current maturities of long-term debt			\$ 4,238

- (a) During October 2020, Progress Energy early retired \$500 million of unsecured debt with an original maturity of January 15, 2021.
(b) Debt has a floating interest rate.
(c) Includes finance lease obligations, amortizing debt and small bullet maturities.

Maturities and Call Options

The following table shows the annual maturities of long-term debt for the next five years and thereafter. Amounts presented exclude short-term notes payable, commercial paper and money pool borrowings and debt issuance costs for the Subsidiary Registrants.

(in millions)	December 31, 2020							
	Duke Energy ^(a)	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
2021	\$ 4,238	\$ 506	\$ 1,426	\$ 603	\$ 823	\$ 50	\$ 70	\$ 160
2022	4,905	721	1,736	1,208	78	—	84	—
2023	3,356	1,008	638	561	77	325	3	45
2024	1,344	9	76	10	66	—	4	40
2025	3,153	310	725	661	64	270	154	205
Thereafter	41,983	9,745	14,802	6,274	6,878	2,486	3,818	2,350
Total long-term debt, including current maturities	\$ 58,979	\$ 12,299	\$ 19,403	\$ 9,317	\$ 7,986	\$ 3,131	\$ 4,133	\$ 2,800

- (a) Excludes \$1,346 million in purchase accounting adjustments related to the Progress Energy merger and the Piedmont acquisition.

The Duke Energy Registrants have the ability under certain debt facilities to call and repay the obligation prior to its scheduled maturity. Therefore, the actual timing of future cash repayments could be materially different than as presented above.

FINANCIAL STATEMENTS

DEBT AND CREDIT FACILITIES

Short-Term Obligations Classified as Long-Term Debt

Tax-exempt bonds that may be put to the Duke Energy Registrants at the option of the holder and certain commercial paper issuances and money pool borrowings are classified as Long-Term Debt on the Consolidated Balance Sheets. These tax-exempt bonds, commercial paper issuances and money pool borrowings, which are short-term obligations by nature, are classified as long-term due to Duke Energy's intent and ability to utilize such borrowings as long-term financing. As Duke Energy's Master Credit Facility and other bilateral letter of credit agreements have non-cancelable terms in excess of one year as of the balance sheet date, Duke Energy has the ability to refinance these short-term obligations on a long-term basis. The following tables show short-term obligations classified as long-term debt.

(in millions)	December 31, 2020				
	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Ohio	Duke Energy Indiana
Tax-exempt bonds	\$ 312	\$ —	\$ —	\$ 27	\$ 285
Commercial paper ^(a)	625	300	150	25	150
Total	\$ 937	\$ 300	\$ 150	\$ 52	\$ 435

(in millions)	December 31, 2019				
	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Ohio	Duke Energy Indiana
Tax-exempt bonds	\$ 312	\$ —	\$ —	\$ 27	\$ 285
Commercial paper ^(a)	625	300	150	25	150
Total	\$ 937	\$ 300	\$ 150	\$ 52	\$ 435

(a) Progress Energy amounts are equal to Duke Energy Progress amounts.

Summary of Significant Debt Issuances

The following tables summarize significant debt issuances (in millions).

			Year Ended December 31, 2020									
				Duke	Duke	Duke	Duke	Duke	Duke	Duke		
	Maturity	Interest	Duke	Energy	Energy	Energy	Energy	Energy	Energy	Energy		
Issuance Date	Date	Rate	Energy	(Parent)	Carolinas	Progress	Florida	Ohio	Indiana	Piedmont		
Unsecured Debt												
May 2020 ^(a)	Jun 2030	2.450 %	\$ 500	\$ 500	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	
May 2020 ^(b)	Jun 2050	3.350 %	400	—	—	—	—	—	—	—	400	
August 2020 ^(c)	Feb 2022	0.400 % ^(d)	700	—	—	700	—	—	—	—	—	
September 2020 ^(e)	Sep 2025	0.900 %	650	650	—	—	—	—	—	—	—	
September 2020 ^(e)	Jun 2030	2.450 %	350	350	—	—	—	—	—	—	—	
First Mortgage Bonds												
January 2020 ^(f)	Feb 2030	2.450 %	500	—	500	—	—	—	—	—	—	
January 2020 ^(f)	Aug 2049	3.200 %	400	—	400	—	—	—	—	—	—	
March 2020 ^(g)	Apr 2050	2.750 %	550	—	—	—	—	—	550	—	—	
May 2020 ^(b)	Jun 2030	2.125 %	400	—	—	—	—	400	—	—	—	
June 2020 ^(b)	Jun 2030	1.750 %	500	—	—	—	500	—	—	—	—	
August 2020 ^(h)	Aug 2050	2.500 %	600	—	—	600	—	—	—	—	—	
Total issuances			\$ 5,550	\$ 1,500	\$ 900	\$ 1,300	\$ 500	\$ 400	\$ 550	\$ 400		

- (a) Debt issued to repay \$500 million borrowing made under Duke Energy (Parent) revolving credit facility in March 2020, and for general corporate purposes.
- (b) Debt issued to repay short-term debt and for general corporate purposes.
- (c) Debt issued to repay \$700 million term loan due December 2020.
- (d) Debt issuance has a floating interest rate.
- (e) Debt issued to repay a portion of outstanding commercial paper, to repay a portion of Duke Energy (Parent)'s outstanding \$1.7 billion term loan due March 2021 and for general corporate purposes.
- (f) Debt issued to repay at maturity \$450 million first mortgage bonds due June 2020 and for general corporate purposes.
- (g) Debt issued to repay at maturity \$500 million first mortgage bonds due July 2020 and to pay down short-term debt.
- (h) Debt issued to repay at maturity \$300 million first mortgage bonds due September 2020 and for general corporate purposes.

FINANCIAL STATEMENTS

DEBT AND CREDIT FACILITIES

			Year Ended December 31, 2019								
			Duke	Duke	Duke	Duke	Duke	Duke	Duke		
	Maturity	Interest	Duke	Energy	Energy	Energy	Energy	Energy	Energy		
Issuance Date	Date	Rate	Energy	(Parent)	Carolinas	Progress	Florida	Ohio	Indiana	Piedmont	
Unsecured Debt											
March 2019 ^(a)	Mar 2022	2.538 % ^(b)	\$ 300	\$ 300	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	
March 2019 ^(a)	Mar 2022	3.227 %	300	300	—	—	—	—	—	—	
May 2019 ^(e)	Jun 2029	3.500 %	600	—	—	—	—	—	—	600	
June 2019 ^(a)	Jun 2029	3.400 %	600	600	—	—	—	—	—	—	
June 2019 ^(a)	Jun 2049	4.200 %	600	600	—	—	—	—	—	—	
July 2019 ^(g)	Jul 2049	4.320 %	40	—	—	—	—	40	—	—	
September 2019 ^(g)	Oct 2025	3.230 %	95	—	—	—	—	95	—	—	
September 2019 ^(g)	Oct 2029	3.560 %	75	—	—	—	—	75	—	—	
November 2019 ^(h)	Nov 2021	2.167 % ^(b)	200	—	—	—	200	—	—	—	
First Mortgage Bonds											
January 2019 ^(c)	Feb 2029	3.650 %	400	—	—	—	—	400	—	—	
January 2019 ^(c)	Feb 2049	4.300 %	400	—	—	—	—	400	—	—	
March 2019 ^(d)	Mar 2029	3.450 %	600	—	—	600	—	—	—	—	
August 2019 ^(a)	Aug 2029	2.450 %	450	—	450	—	—	—	—	—	
August 2019 ^(a)	Aug 2049	3.200 %	350	—	350	—	—	—	—	—	
September 2019 ^(f)	Oct 2049	3.250 %	500	—	—	—	—	—	500	—	
November 2019 ⁽ⁱ⁾	Dec 2029	2.500 %	700	—	—	—	700	—	—	—	
Total issuances			\$ 6,210	\$ 1,800	\$ 800	\$ 600	\$ 900	\$ 1,010	\$ 500	\$ 600	

- (a) Debt issued to pay down short-term debt and for general corporate purposes.
- (b) Debt issuance has a floating interest rate.
- (c) Debt issued to repay at maturity \$450 million first mortgage bonds due April 2019, pay down short-term debt and for general corporate purposes.
- (d) Debt issued to fund eligible green energy projects in the Carolinas.
- (e) Debt issued to repay in full the outstanding \$350 million Piedmont unsecured term loan due September 2019, pay down short-term debt and for general corporate purposes.
- (f) Debt issued to retire \$150 million of pollution control bonds, pay down short-term debt and for general corporate purposes.
- (g) Debt issued to repay at maturity \$100 million debentures due October 2019, pay down short-term debt and for general corporate purposes.
- (h) Debt issued to fund storm restoration costs and for general corporate purposes.
- (i) Debt issued to reimburse the payment of existing and new Eligible Green Expenditures in Florida.

AVAILABLE CREDIT FACILITIES

Master Credit Facility

In March 2020, Duke Energy amended its existing \$8 billion Master Credit Facility to extend the termination date to March 2025. The Duke Energy Registrants, excluding Progress Energy, have borrowing capacity under the Master Credit Facility up to a specified sublimit for each borrower. Duke Energy has the unilateral ability at any time to increase or decrease the borrowing sublimits of each borrower, subject to a maximum sublimit for each borrower. The amount available under the Master Credit Facility has been reduced to backstop issuances of commercial paper, certain letters of credit and variable-rate demand tax-exempt bonds that may be put to the Duke Energy Registrants at the option of the holder.

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SEP 13 2021

FINANCIAL STATEMENTS

DEBT AND CREDIT FACILITIES

The table below includes the current borrowing sublimits and available capacity under these credit facilities.

(in millions)	December 31, 2020							Piedmont
	Duke Energy	Duke Energy (Parent)	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	
Facility size ^(a)	\$ 8,000	\$ 2,650	\$ 1,475	\$ 1,250	\$ 800	\$ 625	\$ 600	\$ 600
Reduction to backstop issuances								
Commercial paper ^(b)	(2,239)	—	(736)	(407)	(179)	(176)	(257)	(484)
Outstanding letters of credit	(40)	(34)	(4)	(2)	—	—	—	—
Tax-exempt bonds	(81)	—	—	—	—	—	(81)	—
Available capacity	\$ 5,640	\$ 2,616	\$ 735	\$ 841	\$ 621	\$ 449	\$ 262	\$ 116

(a) Represents the sublimit of each borrower.

(b) Duke Energy issued \$625 million of commercial paper and loaned the proceeds through the money pool to Duke Energy Carolinas, Duke Energy Progress, Duke Energy Ohio and Duke Energy Indiana. The balances are classified as Long-Term Debt Payable to Affiliated Companies in the Consolidated Balance Sheets.

Term Loan Facility

In response to market volatility and ongoing liquidity impacts from COVID-19, in March 2020, Duke Energy (Parent) entered into a \$1.5 billion, 364-day Term Loan Credit Agreement, borrowing the full \$1.5 billion available on March 19, 2020. The term loan contained a provision for increasing the amount available for borrowing by up to \$500 million. Duke Energy (Parent) exercised this provision on March 27, 2020, borrowing an additional \$188 million. Proceeds were used to reduce outstanding commercial paper and for general corporate purposes. The loan was repaid by Duke Energy (Parent) as of December 31, 2020. Refer to Note 1 for additional information on the COVID-19 pandemic.

Three-Year Revolving Credit Facility

Duke Energy (Parent) has a \$1 billion revolving credit facility. The facility had an initial termination date of June 2020, but in May 2019, Duke Energy extended the termination date of the facility to May 2022. Borrowings under this facility will be used for general corporate purposes. As of December 31, 2020, \$500 million has been drawn under this facility. This balance is classified as Long-term debt on Duke Energy's Consolidated Balance Sheets. Any undrawn commitments can be drawn, and borrowings can be prepaid, at any time throughout the term of the facility. During the first quarter of 2020, an additional \$500 million was drawn under this facility to manage liquidity impacts from COVID-19. The additional \$500 million was paid down during the second quarter of 2020. The terms and conditions of the facility are generally consistent with those governing Duke Energy's Master Credit Facility.

Duke Energy Progress Term Loan Facility

In December 2018, Duke Energy Progress entered into a two-year term loan facility with commitments totaling \$700 million. Borrowings under the facility were used to pay storm-related costs, pay down commercial paper and to partially finance an upcoming bond maturity. As of December 31, 2019, the entire \$700 million had been drawn under the term loan and was classified as Current maturities of long-term debt on Duke Energy Progress' Consolidated Balance Sheets. In August 2020, Duke Energy Progress repaid its \$700 million two-year term loan facility.

Other Debt Matters

In September 2019, Duke Energy filed a Form S-3 with the SEC. Under this Form S-3, which is uncapped, the Duke Energy Registrants, excluding Progress Energy, may issue debt and other securities, including preferred stock, in the future at amounts, prices and with terms to be determined at the time of future offerings. The registration statement was filed to replace a similar prior filing upon expiration of its three-year term and also allows for the issuance of common and preferred stock by Duke Energy.

Duke Energy has an effective Form S-3 with the SEC to sell up to \$3 billion of variable denomination floating-rate demand notes, called PremierNotes. The Form S-3 states that no more than \$1.5 billion of the notes will be outstanding at any particular time. The notes are offered on a continuous basis and bear interest at a floating rate per annum determined by the Duke Energy PremierNotes Committee, or its designee, on a weekly basis. The interest rate payable on notes held by an investor may vary based on the principal amount of the investment. The notes have no stated maturity date, are non-transferable and may be redeemed in whole or in part by Duke Energy or at the investor's option at any time. The balance as of December 31, 2020, and 2019, was \$1,168 million and \$1,049 million, respectively. The notes are short-term debt obligations of Duke Energy and are reflected as Notes payable and commercial paper on Duke Energy's Consolidated Balance Sheets.

Money Pool

The Subsidiary Registrants, excluding Progress Energy, are eligible to receive support for their short-term borrowing needs through participation with Duke Energy and certain of its subsidiaries in a money pool arrangement. Under this arrangement, those companies with short-term funds may provide short-term loans to affiliates participating in this arrangement. The money pool is structured such that the Subsidiary Registrants, excluding Progress Energy, separately manage their cash needs and working capital requirements. Accordingly, there is no net settlement of receivables and payables between money pool participants. Duke Energy (Parent), may loan funds to its participating subsidiaries, but may not borrow funds through the money pool. Accordingly, as the money pool activity is between Duke Energy and its wholly owned subsidiaries, all money pool balances are eliminated within Duke Energy's Consolidated Balance Sheets.

FINANCIAL STATEMENTS

DEBT AND CREDIT FACILITIES

Money pool receivable balances are reflected within Notes receivable from affiliated companies on the Subsidiary Registrants' Consolidated Balance Sheets. Money pool payable balances are reflected within either Notes payable to affiliated companies or Long-Term Debt Payable to Affiliated Companies on the Subsidiary Registrants' Consolidated Balance Sheets.

Restrictive Debt Covenants

The Duke Energy Registrants' debt and credit agreements contain various financial and other covenants. Duke Energy's Master Credit Facility contains a covenant requiring the debt-to-total capitalization ratio not to exceed 65% for each borrower, excluding Piedmont, and 70% for Piedmont. Failure to meet those covenants beyond applicable grace periods could result in accelerated due dates and/or termination of the agreements. As of December 31, 2020, each of the Duke Energy Registrants was in compliance with all covenants related to their debt agreements. In addition, some credit agreements may allow for acceleration of payments or termination of the agreements due to nonpayment, or acceleration of other significant indebtedness of the borrower or some of its subsidiaries. None of the debt or credit agreements contain material adverse change clauses.

Other Loans

As of December 31, 2020, and 2019, Duke Energy had loans outstanding of \$817 million, including \$35 million at Duke Energy Progress and \$777 million, including \$36 million at Duke Energy Progress, respectively, against the cash surrender value of life insurance policies it owns on the lives of its executives. The amounts outstanding were carried as a reduction of the related cash surrender value that is included in Other within Other Noncurrent Assets on the Consolidated Balance Sheets.

7. GUARANTEES AND INDEMNIFICATIONS

Duke Energy has various financial and performance guarantees and indemnifications with non-consolidated entities, which are issued in the normal course of business. As discussed below, these contracts include performance guarantees, standby letters of credit, debt guarantees and indemnifications. Duke Energy enters into these arrangements to facilitate commercial transactions with third parties by enhancing the value of the transaction to the third party. At December 31, 2020, Duke Energy does not believe conditions are likely for significant performance under these guarantees, except for ACP as described below. To the extent liabilities are incurred as a result of the activities covered by the guarantees, such liabilities are included on the accompanying Consolidated Balance Sheets.

On January 2, 2007, Duke Energy completed the spin-off of its previously wholly owned natural gas businesses to shareholders. Guarantees issued by Duke Energy or its affiliates, or assigned to Duke Energy prior to the spin-off, remained with Duke Energy subsequent to the spin-off. Guarantees issued by Spectra Capital or its affiliates prior to the spin-off remained with Spectra Capital subsequent to the spin-off, except for guarantees that were later assigned to Duke Energy. Duke Energy has indemnified Spectra Capital against any losses incurred under certain of the guarantee obligations that remain with Spectra Capital. At December 31, 2020, the maximum potential amount of future payments associated with these guarantees were \$56 million, the majority of which expires by 2028.

In October 2017, ACP executed a \$3.4 billion revolving credit facility with a stated maturity date of October 2021. Duke Energy entered into a guarantee agreement to support its share of the ACP revolving credit facility. In July 2020, ACP reduced the size of the credit facility to \$1.9 billion. Duke Energy's maximum exposure to loss under the terms of the guarantee is \$860 million as of December 31, 2020. This amount represents 47% of the outstanding borrowings under the credit facility.

Duke Energy recognized the \$860 million within Other Current Liabilities on the Consolidated Balance Sheets at December 31, 2020, of which \$95 million was previously recognized due the adoption of new guidance for credit losses effective January 1, 2020. See Notes 3 and 12 for more information. The remaining reserve for credit losses for financial guarantees of \$4 million at December 31, 2020, is included within Other Noncurrent Liabilities on the Duke Energy's Consolidated Balance Sheets. Management considers financial guarantees for evaluation under this standard based on the anticipated amount outstanding at the time of default. The reserve for credit losses is based on the evaluation of the contingent components of financial guarantees. Management evaluates the risk of default, exposure and length of time remaining in the period for each contract.

In addition to the Spectra Capital and ACP revolving credit facility guarantees above, Duke Energy has issued performance guarantees to customers and other third parties that guarantee the payment and performance of other parties, including certain non-wholly owned entities, as well as guarantees of debt of certain non-consolidated entities. If such entities were to default on payments or performance, Duke Energy would be required under the guarantees to make payments on the obligations of these entities. The maximum potential amount of future payments required under these guarantees as of December 31, 2020, was \$56 million of which \$53 million expire between 2021 and 2030, with the remaining performance guarantees having no contractual expiration. Additionally, certain guarantees have uncapped maximum potential payments; however, Duke Energy does not believe these guarantees will have a material effect on its results of operations, cash flows or financial position.

Duke Energy uses bank-issued standby letters of credit to secure the performance of wholly owned and non-wholly owned entities to a third party or customer. Under these arrangements, Duke Energy has payment obligations to the issuing bank that are triggered by a draw by the third party or customer due to the failure of the wholly owned or non-wholly owned entity to perform according to the terms of its underlying contract. At December 31, 2020, Duke Energy had issued a total of \$566 million in letters of credit, which expire between 2021 and 2023. The unused amount under these letters of credit was \$76 million.

Duke Energy recognized \$11 million and \$23 million as of December 31, 2020, and 2019, respectively, primarily in Other within Other Noncurrent Liabilities on the Consolidated Balance Sheets, for the guarantees discussed above. As current estimates change, additional losses related to guarantees and indemnifications to third parties, which could be material, may be recorded by the Duke Energy Registrants in the future.

FINANCIAL STATEMENTS

JOINT OWNERSHIP OF GENERATING AND TRANSMISSION FACILITIES

8. JOINT OWNERSHIP OF GENERATING AND TRANSMISSION FACILITIES

The Duke Energy Registrants maintain ownership interests in certain jointly owned generating and transmission facilities. The Duke Energy Registrants are entitled to a share of the generating capacity and output of each unit equal to their respective ownership interests. The Duke Energy Registrants pay their ownership share of additional construction costs, fuel inventory purchases and operating expenses. The Duke Energy Registrants share of revenues and operating costs of the jointly owned facilities is included within the corresponding line in the Consolidated Statements of Operations. Each participant in the jointly owned facilities must provide its own financing.

The following table presents the Duke Energy Registrants' interest of jointly owned plant or facilities and amounts included on the Consolidated Balance Sheets. All facilities are operated by the Duke Energy Registrants and are included in the Electric Utilities and Infrastructure segment.

(in millions except for ownership interest)	December 31, 2020			
	Ownership Interest	Property, Plant and Equipment	Accumulated Depreciation	Construction Work in Progress
Duke Energy Carolinas				
Catawba (units 1 and 2) ^(a)	19.25 %	\$ 1,017	\$ 518	\$ 23
W.S. Lee CC ^(b)	87.27 %	632	49	1
Duke Energy Indiana				
Gibson (unit 5) ^(c)	50.05 %	447	199	4
Vermillion ^(d)	62.50 %	174	101	1
Transmission and local facilities ^(c)	Various	5,817	1,508	150

(a) Jointly owned with North Carolina Municipal Power Agency Number 1, NCEMC and PMPA.

(b) Jointly owned with NCEMC.

(c) Jointly owned with WVPA and IMPA.

(d) Jointly owned with WVPA.

9. ASSET RETIREMENT OBLIGATIONS

Duke Energy records an ARO when it has a legal obligation to incur retirement costs associated with the retirement of a long-lived asset and the obligation can be reasonably estimated. Certain assets of the Duke Energy Registrants have an indeterminate life, such as transmission and distribution facilities, and thus the fair value of the retirement obligation is not reasonably estimable. A liability for these AROs will be recorded when a fair value is determinable.

The Duke Energy Registrants' regulated operations accrue costs of removal for property that does not have an associated legal retirement obligation based on regulatory orders from state commissions. These costs of removal are recorded as a regulatory liability in accordance with regulatory accounting treatment. The Duke Energy Registrants do not accrue the estimated cost of removal for any nonregulated assets. See Note 3 for the estimated cost of removal for assets without an associated legal retirement obligation, which are included in Regulatory liabilities on the Consolidated Balance Sheets.

The following table presents the AROs recorded on the Consolidated Balance Sheets.

(in millions)	December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Decommissioning of nuclear power facilities ^(a)	\$ 6,845	\$ 2,695	\$ 4,101	\$ 3,642	\$ 459	\$ —	\$ —	\$ —
Closure of ash impoundments	5,778	2,597	1,973	1,950	23	67	1,140	—
Other	381	58	75	43	32	44	36	20
Total asset retirement obligation	\$ 13,004	\$ 5,350	\$ 6,149	\$ 5,635	\$ 514	\$ 111	\$ 1,176	\$ 20
Less: Current portion	718	264	283	283	—	3	168	—
Total noncurrent asset retirement obligation	\$ 12,286	\$ 5,086	\$ 5,866	\$ 5,352	\$ 514	\$ 108	\$ 1,008	\$ 20

(a) Duke Energy amount includes purchase accounting adjustments related to the merger with Progress Energy.

Nuclear Decommissioning Liability

ARO related to nuclear decommissioning are based on site-specific cost studies. The NCUC, PSCSC and FPSC require updated cost estimates for decommissioning nuclear plants every five years.

FINANCIAL STATEMENTS

ASSET RETIREMENT OBLIGATIONS

The following table summarizes information about the most recent site-specific nuclear decommissioning cost studies. Decommissioning costs are stated in 2018 or 2019 dollars, depending on the year of the cost study, and include costs to decommission plant components not subject to radioactive contamination.

(in millions)	Annual Funding Requirement ^(a)	Decommissioning Costs ^(a)	Year of Cost Study
Duke Energy	\$ 27	\$ 9,105	2018 or 2019
Duke Energy Carolinas ^{(b)(c)}	—	4,365	2018
Duke Energy Progress ^(d)	27	4,181	2019
Duke Energy Florida ^(e)	—	559	N/A

- (a) Amounts for Progress Energy equal the sum of Duke Energy Progress and Duke Energy Florida.
- (b) Decommissioning cost for Duke Energy Carolinas reflects its ownership interest in jointly owned reactors. Other joint owners are responsible for decommissioning costs related to their interest in the reactors.
- (c) Duke Energy Carolinas' site-specific nuclear decommissioning cost study completed in 2018 was filed with the NCUC and PSCSC in 2019. A new funding study was also completed and filed with the NCUC and PSCSC in 2019.
- (d) Duke Energy Progress' site-specific nuclear decommissioning cost study completed in 2019 was filed with the NCUC and PSCSC in March 2020. Duke Energy Progress also completed a funding study, which was filed with the NCUC and PSCSC in July 2020.
- (e) During 2019, Duke Energy Florida reached an agreement to transfer decommissioning work for Crystal River Unit 3 to a third party and decommissioning costs are based on the agreement with this third party rather than a cost study. Regulatory approval was received from the NRC and the FPSC in April 2020 and August 2020, respectively. See Note 3 for more information.

Nuclear Decommissioning Trust Funds

Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida each maintain NDTFs that are intended to pay for the decommissioning costs of their respective nuclear power plants. The NDTF investments are managed and invested in accordance with applicable requirements of various regulatory bodies including the NRC, FERC, NCUC, PSCSC, FPSC and the IRS.

Use of the NDTF investments is restricted to nuclear decommissioning activities including license termination, spent fuel and site restoration. The license termination and spent fuel obligations relate to contaminated decommissioning and are recorded as AROs. The site restoration obligation relates to non-contaminated decommissioning and is recorded to cost of removal within Regulatory liabilities on the Consolidated Balance Sheets.

The following table presents the fair value of NDTF assets legally restricted for purposes of settling AROs associated with nuclear decommissioning. Duke Energy Florida entered into an agreement with a third party to decommission Crystal River Unit 3 and was granted an exemption from the NRC, which allows for use of the NDTF for all aspects of nuclear decommissioning. The entire balance of Duke Energy Florida's NDTF may be applied toward license termination, spent fuel and site restoration costs incurred to decommission Crystal River Unit 3 and is excluded from the table below. See Note 16 for additional information related to the fair value of the Duke Energy Registrants' NDTFs.

(in millions)	December 31,	
	2020	2019
Duke Energy	\$ 7,726	\$ 6,766
Duke Energy Carolinas	4,381	3,837
Duke Energy Progress	3,345	2,929

Nuclear Operating Licenses

Operating licenses for nuclear units are potentially subject to extension. The following table includes the current expiration of nuclear operating licenses.

Unit	Year of Expiration
Duke Energy Carolinas	
Catawba Units 1 and 2	2043
McGuire Unit 1	2041
McGuire Unit 2	2043
Oconee Units 1 and 2	2033
Oconee Unit 3	2034
Duke Energy Progress	
Brunswick Unit 1	2036
Brunswick Unit 2	2034
Harris	2046
Robinson	2030

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SEP 13 2021

FINANCIAL STATEMENTS

ASSET RETIREMENT OBLIGATIONS

The NRC has acknowledged permanent cessation of operation and permanent removal of fuel from the reactor vessel at Crystal River Unit 3. Therefore, the license no longer authorizes operation of the reactor. During 2019, Duke Energy Florida entered into an agreement for the accelerated decommissioning of Crystal River Unit 3. Regulatory approval was received from the NRC and the FPSC in April 2020 and August 2020, respectively. See Note 3 for more information.

Closure of Ash Impoundments

The Duke Energy Registrants are subject to state and federal regulations covering the closure of coal ash impoundments, including the EPA CCR rule and the Coal Ash Act, and other agreements. AROs recorded on the Duke Energy Registrants' Consolidated Balance Sheets include the legal obligation for closure of coal ash basins and the disposal of related ash as a result of these regulations and agreements.

The ARO amount recorded on the Consolidated Balance Sheets is based upon estimated closure costs for impacted ash impoundments. The amount recorded represents the discounted cash flows for estimated closure costs based upon specific closure plans. Actual costs to be incurred will be dependent upon factors that vary from site to site. The most significant factors are the method and time frame of closure at the individual sites. Closure methods considered include removing the water from ash basins, consolidating material as necessary and capping the ash with a synthetic barrier, excavating and relocating the ash to a lined structural fill or lined landfill or recycling the ash for concrete or some other beneficial use. The ultimate method and timetable for closure will be in compliance with standards set by federal and state regulations and other agreements. The ARO amount will be adjusted as additional information is gained through the closure and post-closure process, including acceptance and approval of compliance approaches, which may change management assumptions, and may result in a material change to the balance. See ARO Liability Rollforward section below for information on revisions made to the coal ash liability during 2020 and 2019.

Asset retirement costs associated with the AROs for operating plants and retired plants are included in Net property, plant and equipment and Regulatory assets, respectively, on the Consolidated Balance Sheets. See Note 3 for additional information on Regulatory assets related to AROs.

Cost recovery for future expenditures will be pursued through the normal ratemaking process with federal and state utility commissions, which permit recovery of necessary and prudently incurred costs associated with Duke Energy's regulated operations. See Note 3 for additional information on recovery of coal ash costs.

ARO Liability Rollforward

The following tables present changes in the liability associated with AROs.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Balance at December 31, 2018	\$ 10,467	\$ 3,949	\$ 5,411	\$ 4,820	\$ 591	\$ 93	\$ 722	\$ 19
Accretion expense ^(a)	508	235	252	227	25	3	28	1
Liabilities settled ^(b)	(895)	(329)	(499)	(460)	(39)	(12)	(54)	—
Liabilities incurred in the current year	25	18	7	—	7	—	—	—
Revisions in estimates of cash flows ^(c)	3,213	1,861	1,300	1,306	(6)	(4)	136	(3)
Balance at December 31, 2019	13,318	5,734	6,471	5,893	578	80	832	17
Accretion expense ^(a)	542	258	246	225	21	4	33	1
Liabilities settled ^(b)	(724)	(198)	(451)	(358)	(93)	(2)	(74)	—
Liabilities incurred in the current year	22	—	5	—	5	—	—	—
Revisions in estimates of cash flows ^(d)	(154)	(444)	(122)	(125)	3	29	385	2
Balance at December 31, 2020	\$ 13,004	\$ 5,350	\$ 6,149	\$ 5,635	\$ 514	\$ 111	\$ 1,176	\$ 20

- (a) Substantially all accretion expense for the years ended December 31, 2020, and 2019, relates to Duke Energy's regulated operations and has been deferred in accordance with regulatory accounting treatment.
- (b) Amounts primarily relate to ash impoundment closures and nuclear decommissioning.
- (c) Amounts primarily relate to increases in closure estimates for certain ash impoundments as a result of the NCDEQ's April 1, 2019, Order and the related settlement agreement dated December 31, 2019.
- (d) Primarily relates to decreases due to revised basin closure cost estimates, partially offset by increases related to new closure plan approvals, post closure maintenance and beneficiation costs. Duke Energy Indiana estimates also include the impacts of closure estimates for certain ash impoundments due to the impact of Hoosier Environmental Council's petition filed with the court challenging the Indiana Department of Environmental Management's partial approval of Duke Energy Indiana's ash pond closure plan. See Note 4 for more information on Hoosier Environmental Council's petition. The incremental amount recorded represents the discounted cash flows for estimated closure costs based upon the probability weightings of the potential closure methods as evaluated on a site-by-site basis.

FINANCIAL STATEMENTS

PROPERTY, PLANT AND EQUIPMENT

10. PROPERTY, PLANT AND EQUIPMENT

The following tables summarize the property, plant and equipment for Duke Energy and its subsidiary registrants.

		December 31, 2020								
		Average Remaining Useful Life (Years)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
(in millions)										
Land			\$ 2,046	\$ 536	\$ 908	\$ 463	\$ 445	\$ 171	\$ 118	\$ 279
Plant – Regulated										
	Electric generation, distribution and transmission	39	117,107	44,059	50,785	31,375	19,410	6,255	16,008	—
	Natural gas transmission and distribution	54	10,799	—	—	—	—	3,136	—	7,663
	Other buildings and improvements	36	2,038	740	459	197	262	374	300	165
Plant – Nonregulated										
	Electric generation, distribution and transmission	27	5,444	—	—	—	—	—	—	—
	Other buildings and improvements	10	519	—	—	—	—	—	—	—
Nuclear fuel			3,284	1,837	1,447	1,447	—	—	—	—
Equipment		15	2,608	620	759	498	261	385	238	122
Construction in process			6,645	1,645	2,013	709	1,304	407	409	581
Other		14	5,090	1,203	1,521	1,070	441	294	309	324
Total property, plant and equipment ^{(a)(e)}			155,580	50,640	57,892	35,759	22,123	11,022	17,382	9,134
Total accumulated depreciation – regulated ^{(b)(c)}			(46,216)	(17,453)	(18,368)	(12,801)	(5,560)	(3,013)	(5,661)	(1,749)
Total accumulated depreciation – nonregulated ^{(d)(e)}			(2,611)	—	—	—	—	—	—	—
Generation facilities to be retired, net			29	—	29	29	—	—	—	—
Total net property, plant and equipment			\$106,782	\$ 33,187	\$ 39,553	\$ 22,987	\$ 16,563	\$ 8,009	\$ 11,721	\$ 7,385

- (a) Includes finance leases of \$832 million, \$335 million, \$416 million, \$297 million, \$119 million and \$10 million at Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana, respectively, primarily within Plant – Regulated. The Progress Energy, Duke Energy Progress and Duke Energy Florida amounts are net of \$141 million, \$24 million and \$117 million, respectively, of accumulated amortization of finance leases.
- (b) Includes \$1,832 million, \$1,010 million, \$822 million and \$822 million of accumulated amortization of nuclear fuel at Duke Energy, Duke Energy Carolinas, Progress Energy and Duke Energy Progress, respectively.
- (c) Includes accumulated amortization of finance leases of \$12 million, \$23 million and \$3 million at Duke Energy, Duke Energy Carolinas and Duke Energy Indiana, respectively.
- (d) Includes accumulated amortization of finance leases of \$23 million at Duke Energy.
- (e) Includes gross property, plant and equipment cost of consolidated VIEs of \$6,394 million and accumulated depreciation of consolidated VIEs of \$1,242 million at Duke Energy.

In 2020, Duke Energy evaluated recoverability of its renewable merchant plants principally located in the Electric Reliability Council of Texas West market and in the PJM West market due to declining market pricing and declining long-term forecasted energy prices, primarily driven by lower forecasted natural gas prices. Duke Energy determined that the assets were not impaired because the carrying value of \$210 million approximates the aggregate estimated future undiscounted cash flows. A continued decline in energy market pricing would likely result in a future impairment. Duke Energy retained 51% ownership interest in these facilities following the 2019 transaction to sell a minority interest in certain renewable assets. See Note 1 for further information.

FINANCIAL STATEMENTS

PROPERTY, PLANT AND EQUIPMENT

December 31, 2019									
(in millions)	Average Remaining Useful Life (Years)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Land		\$ 2,091	\$ 520	\$ 884	\$ 449	\$ 435	\$ 150	\$ 117	\$ 388
Plant – Regulated									
Electric generation, distribution and transmission	39	111,739	42,723	48,142	30,018	18,124	5,838	15,032	—
Natural gas transmission and distribution	54	9,839	—	—	—	—	2,892	—	6,947
Other buildings and improvements	32	1,810	714	401	162	239	269	278	148
Plant – Nonregulated									
Electric generation, distribution and transmission	28	5,103	—	—	—	—	—	—	—
Other buildings and improvements	9	488	—	—	—	—	—	—	—
Nuclear fuel		3,253	1,891	1,362	1,362	—	—	—	—
Equipment	13	2,313	546	665	452	213	319	205	128
Construction in process		6,102	1,389	2,149	1,114	1,035	504	381	531
Other	13	4,916	1,139	1,467	1,046	411	269	292	304
Total property, plant and equipment ^{(a)(e)}		147,654	48,922	55,070	34,603	20,457	10,241	16,305	8,446
Total accumulated depreciation – regulated ^{(b)(c)}		(43,419)	(16,525)	(17,159)	(11,915)	(5,236)	(2,843)	(5,233)	(1,681)
Total accumulated depreciation – nonregulated ^{(d)(e)}		(2,354)	—	—	—	—	—	—	—
Generation facilities to be retired, net		246	—	246	246	—	—	—	—
Total net property, plant and equipment		\$102,127	\$ 32,397	\$ 38,157	\$ 22,934	\$ 15,221	\$ 7,398	\$ 11,072	\$ 6,765

- (a) Includes finance leases of \$952 million, \$211 million, \$443 million, \$308 million, \$135 million, and \$10 million at Duke Energy, Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana, respectively, primarily within Plant – Regulated. The Progress Energy, Duke Energy Progress and Duke Energy Florida amounts are net of \$143 million, \$17 million and \$126 million, respectively, of accumulated amortization of finance leases.
- (b) Includes \$1,807 million, \$1,082 million, \$725 million and \$725 million of accumulated amortization of nuclear fuel at Duke Energy, Duke Energy Carolinas, Progress Energy and Duke Energy Progress, respectively.
- (c) Includes accumulated amortization of finance leases of \$6 million, \$13 million, and \$3 million at Duke Energy, Duke Energy Carolinas and Duke Energy Indiana, respectively.
- (d) Includes accumulated amortization of finance leases of \$20 million at Duke Energy.
- (e) Includes gross property, plant and equipment cost of consolidated VIEs of \$5,747 million and accumulated depreciation of consolidated VIEs of \$1,041 million at Duke Energy.

The following tables present capitalized interest, which includes the debt component of AFUDC.

(in millions)	Years Ended December 31,		
	2020	2019	2018
Duke Energy	\$ 112	\$ 159	\$ 161
Duke Energy Carolinas	28	30	35
Progress Energy	17	31	51
Duke Energy Progress	12	28	26
Duke Energy Florida	5	3	25
Duke Energy Ohio	26	22	17
Duke Energy Indiana	10	26	27
Piedmont	8	26	17

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Step 13 2021

FINANCIAL STATEMENTS

GOODWILL AND INTANGIBLE ASSETS

11. GOODWILL AND INTANGIBLE ASSETS

GOODWILL

Duke Energy

The following table presents goodwill by reportable segment for Duke Energy included on Duke Energy's Consolidated Balance Sheets at December 31, 2020, and 2019.

(in millions)	Electric Utilities and Infrastructure	Gas Utilities and Infrastructure	Commercial Renewables	Total
Goodwill Balance at December 31, 2019	\$ 17,379	\$ 1,924	\$ 122	\$ 19,425
Accumulated impairment charges	—	—	(122)	(122)
Goodwill balance at December 31, 2019, adjusted for accumulated impairment charges	\$ 17,379	\$ 1,924	\$ —	\$ 19,303
Goodwill Balance at December 31, 2020	\$ 17,379	\$ 1,924	\$ 122	\$ 19,425
Accumulated impairment charges	—	—	(122)	(122)
Goodwill balance at December 31, 2020, adjusted for accumulated impairment charges	\$ 17,379	\$ 1,924	\$ —	\$ 19,303

- (a) Duke Energy evaluated the recoverability of goodwill during 2018 and 2017 and recorded impairment charges of \$93 million and \$29 million, respectively, related to the Commercial Renewables reporting unit included in Impairment charges on Duke Energy's Consolidated Statements of Operations. The fair value of the reporting unit was determined based on the income approach and market approach in 2018 and 2017, respectively. See "Goodwill Impairment Testing" below for the results of the 2020 goodwill impairment test.

Duke Energy Ohio

Duke Energy Ohio's Goodwill balance of \$920 million, allocated \$596 million to Electric Utilities and Infrastructure and \$324 million to Gas Utilities and Infrastructure, is presented net of accumulated impairment charges of \$216 million on the Consolidated Balance Sheets at December 31, 2020, and 2019.

Progress Energy

Progress Energy's Goodwill is included in the Electric Utilities and Infrastructure segment and there are no accumulated impairment charges.

Piedmont

Piedmont's Goodwill is included in the Gas Utilities and Infrastructure segment and there are no accumulated impairment charges.

Goodwill Impairment Testing

Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont are required to perform an annual goodwill impairment test as of the same date each year and, accordingly, perform their annual impairment testing of goodwill as of August 31. Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont update their test between annual tests if events or circumstances occur that would more likely than not reduce the fair value of a reporting unit below its carrying value. As the fair value for Duke Energy, Progress Energy, Duke Energy Ohio and Piedmont exceeded their respective carrying values at the date of the annual impairment analysis, no goodwill impairment charges were recorded in 2020.

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SEP 13 2021

FINANCIAL STATEMENTS

GOODWILL AND INTANGIBLE ASSETS

INTANGIBLE ASSETS

The following tables show the carrying amount and accumulated amortization of intangible assets included in Other within Other Noncurrent Assets on the Consolidated Balance Sheets of the Duke Energy Registrants at December 31, 2020, and 2019.

(in millions)	December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Emission allowances	\$ 8	\$ —	\$ 5	\$ 2	\$ 3	\$ —	\$ 2	\$ —
Renewable energy certificates	196	65	130	130	—	1	—	—
Natural gas, coal and power contracts	24	—	—	—	—	—	24	—
Renewable operating and development projects	107	—	—	—	—	—	—	—
Other	20	—	—	—	—	—	—	—
Total gross carrying amounts	355	65	135	132	3	1	26	—
Accumulated amortization – natural gas, coal and power contracts	(23)	—	—	—	—	—	(23)	—
Accumulated amortization – renewable operating and development projects	(34)	—	—	—	—	—	—	—
Accumulated amortization – other	(3)	—	—	—	—	—	—	—
Total accumulated amortization	(60)	—	—	—	—	—	(23)	—
Total intangible assets, net	\$ 295	\$ 65	\$ 135	\$ 132	\$ 3	\$ 1	\$ 3	\$ —

(in millions)	December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Emission allowances	\$ 18	\$ —	\$ 5	\$ 2	\$ 3	\$ —	\$ 12	\$ —
Renewable energy certificates	172	53	118	118	—	1	—	—
Natural gas, coal and power contracts	24	—	—	—	—	—	24	—
Renewable operating and development projects	89	—	—	—	—	—	—	—
Other	2	—	—	—	—	—	—	—
Total gross carrying amounts	305	53	123	120	3	1	36	—
Accumulated amortization – natural gas, coal and power contracts	(21)	—	—	—	—	—	(21)	—
Accumulated amortization – renewable operating and development projects	(34)	—	—	—	—	—	—	—
Accumulated amortization – other	(1)	—	—	—	—	—	—	—
Total accumulated amortization	(56)	—	—	—	—	—	(21)	—
Total intangible assets, net	\$ 249	\$ 53	\$ 123	\$ 120	\$ 3	\$ 1	\$ 15	\$ —

Amortization Expense

Amortization expense amounts for natural gas, coal and power contracts, renewable operating projects and other intangible assets are immaterial for the years ended December 31, 2020, 2019 and 2018, and are expected to be immaterial for the next five years as of December 31, 2020.

12. INVESTMENTS IN UNCONSOLIDATED AFFILIATES

EQUITY METHOD INVESTMENTS

Investments in affiliates that are not controlled by Duke Energy, but over which it has significant influence, are accounted for using the equity method.

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Step 13 2021

FINANCIAL STATEMENTS

INVESTMENTS IN UNCONSOLIDATED AFFILIATES

The following table presents Duke Energy's investments in unconsolidated affiliates accounted for under the equity method, as well as the respective equity in earnings, by segment.

(in millions)	Years Ended December 31,					
	2020		2019		2018	
	Investments	Equity in earnings	Investments	Equity in earnings	Investments	Equity in earnings
Electric Utilities and Infrastructure	\$ 105	\$ (1)	\$ 122	\$ 9	\$ 97	\$ 6
Gas Utilities and Infrastructure	215	(2,017)	1,388	114	1,003	27
Commercial Renewables	534	—	314	(4)	201	(1)
Other	107	13	112	43	108	51
Total	\$ 961	\$ (2,005)	\$ 1,936	\$ 162	\$ 1,409	\$ 83

During the years ended December 31, 2020, 2019 and 2018, Duke Energy received distributions from equity investments of \$37 million, \$55 million and \$108 million, respectively, which are included in Other assets within Cash Flows from Operating Activities on the Consolidated Statements of Cash Flows. During the years ended December 31, 2020, 2019 and 2018, Duke Energy received distributions from equity investments of \$133 million, \$11 million and \$137 million, respectively, which are included in Return of investment capital within Cash Flows from Investing Activities on the Consolidated Statements of Cash Flows.

During the years ended December 31, 2020, 2019 and 2018, Piedmont received distributions from equity investments of \$2 million, \$1 million and \$1 million, respectively, which are included in Other assets within Cash Flows from Operating Activities and \$2 million, \$4 million and \$3 million, respectively, which are included within Cash Flows from Investing Activities on the Consolidated Statements of Cash Flows.

Significant investments in affiliates accounted for under the equity method are discussed below.

Electric Utilities and Infrastructure

Duke Energy owns 50% interests in both DATC and Pioneer, which build, own and operate electric transmission facilities in North America.

Gas Utilities and Infrastructure

The table below outlines Duke Energy's ownership interests in natural gas pipeline companies and natural gas storage facilities.

Entity Name	Ownership Interest	Investment Amount (in millions)	
		December 31,	
		2020	2019
Pipeline Investments ^(a)			
ACP ^(b)	47 %	\$ —	\$ 1,179
Sabal Trail	7.5 %	120	121
Cardinal ^(c)	21.49 %	9	9
Storage Facilities			
Pine Needle ^(c)	45 %	27	28
Hardy Storage ^(c)	50 %	56	51
Other	29.68 %	3	—
Total Investments ^(d)		\$ 215	\$ 1,388

- (a) Duke Energy recorded OTTI of \$25 million and \$55 million within Equity in (losses) earnings of unconsolidated affiliates on Duke Energy's Consolidated Statements of Operations for the years ended December 31, 2019, and 2018, respectively, to completely impair its 24% ownership interest in Constitution.
- (b) In 2020, Duke Energy determined it would no longer continue its investment in the construction of the ACP pipeline. See Notes 3 and 7 for further information.
- (c) Piedmont owns the Cardinal, Pine Needle and Hardy Storage investments.
- (d) Duke Energy includes purchase accounting adjustments related to Piedmont.

Commercial Renewables

DS Cornerstone, LLC, which owns wind farm projects in the U.S. was part of a sale of minority interest in a certain portion of renewable assets in 2019. See Note 1 for more information on the sale. Prior to the sale, Duke Energy had a 50% interest in DS Cornerstone, LLC. After the sale, Duke Energy has a 26% interest in the investment.

As of December 31, 2020, Duke Energy completed its acquisition of 70 distributed fuel cell projects from Bloom Energy Corporation, which approximates 43 MW of capacity serving commercial and industrial customers across the U.S. Duke Energy is not the primary beneficiary of the distributed fuel cell portfolio and does not consolidate these assets.

FINANCIAL STATEMENTS

INVESTMENTS IN UNCONSOLIDATED AFFILIATES

Other

Duke Energy has a 17.5% indirect economic ownership interest and 25% board representation and voting rights interest in NMC, which owns and operates a methanol and MTBE business in Jubail, Saudi Arabia.

Significant Subsidiaries

For the year ended December 31, 2020, Duke Energy's investment in ACP met the requirements of S-X Rule 4-08(g) to provide summarized financial information. The following table provides summary information for ACP as required under S-X Rule 1-02(bb) for the comparative periods in Duke Energy's consolidated balance sheets and consolidated statements of operations.

(in millions)	December 31,	
	2020	2019
Current assets	\$ 43	\$ 17
Noncurrent assets	93	4,091
Current liabilities	1,965	37
Noncurrent liabilities	167	1,760
Membership interests	(1,996)	2,311

	Years Ended December 31,		
	2020	2019	2018
Net revenues	\$ —	\$ —	\$ —
Operating loss	(4,612)	(5)	(6)
Net (loss) income	(4,512)	246	138
Net (loss) income attributable to Duke Energy	\$ (2,121)	\$ 116	\$ 65

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SEP 13 2021

FINANCIAL STATEMENTS

RELATED PARTY TRANSACTIONS

13. RELATED PARTY TRANSACTIONS

The Subsidiary Registrants engage in related party transactions in accordance with the applicable state and federal commission regulations. Refer to the Consolidated Balance Sheets of the Subsidiary Registrants for balances due to or due from related parties. Material amounts related to transactions with related parties included in the Consolidated Statements of Operations and Comprehensive Income are presented in the following table.

(in millions)	Years Ended December 31,		
	2020	2019	2018
Duke Energy Carolinas			
Corporate governance and shared service expenses ^(a)	\$ 753	\$ 841	\$ 985
Indemnification coverages ^(b)	20	20	22
Joint Dispatch Agreement (JDA) revenue ^(c)	25	60	84
JDA expense ^(c)	114	186	207
Intercompany natural gas purchases ^(d)	15	15	15
Progress Energy			
Corporate governance and shared service expenses ^(a)	\$ 715	\$ 778	\$ 906
Indemnification coverages ^(b)	36	37	34
JDA revenue ^(c)	114	186	207
JDA expense ^(c)	25	60	84
Intercompany natural gas purchases ^(d)	75	76	78
Duke Energy Progress			
Corporate governance and shared service expenses ^(a)	\$ 420	\$ 462	\$ 577
Indemnification coverages ^(b)	17	15	13
JDA revenue ^(c)	114	186	207
JDA expense ^(c)	25	60	84
Intercompany natural gas purchases ^(d)	75	76	78
Duke Energy Florida			
Corporate governance and shared service expenses ^(a)	\$ 295	\$ 316	\$ 329
Indemnification coverages ^(b)	19	22	21
Duke Energy Ohio			
Corporate governance and shared service expenses ^(a)	\$ 326	\$ 354	\$ 374
Indemnification coverages ^(b)	4	4	5
Duke Energy Indiana			
Corporate governance and shared service expenses ^(a)	\$ 401	\$ 412	\$ 405
Indemnification coverages ^(b)	8	7	7
Piedmont			
Corporate governance and shared service expenses ^(a)	\$ 140	\$ 138	\$ 170
Indemnification coverages ^(b)	3	3	2
Intercompany natural gas sales ^(d)	90	91	93
Natural gas storage and transportation costs ^(e)	23	23	25

- (a) The Subsidiary Registrants are charged their proportionate share of corporate governance and other shared services costs, primarily related to human resources, employee benefits, information technology, legal and accounting fees, as well as other third-party costs. These amounts are primarily recorded in Operation, maintenance and other on the Consolidated Statements of Operations and Comprehensive Income.
- (b) The Subsidiary Registrants incur expenses related to certain indemnification coverages through Bison, Duke Energy's wholly owned captive insurance subsidiary. These expenses are recorded in Operation, maintenance and other on the Consolidated Statements of Operations and Comprehensive Income.
- (c) Duke Energy Carolinas and Duke Energy Progress participate in a JDA, which allows the collective dispatch of power plants between the service territories to reduce customer rates. Revenues from the sale of power and expenses from the purchase of power pursuant to the JDA are recorded in Operating Revenues and Fuel used in electric generation and purchased power, respectively, on the Consolidated Statements of Operations and Comprehensive Income.
- (d) Piedmont provides long-term natural gas delivery service to certain Duke Energy Carolinas and Duke Energy Progress natural gas-fired generation facilities. Piedmont records the sales in Operating Revenues, and Duke Energy Carolinas and Duke Energy Progress record the related purchases as a component of Fuel used in electric generation and purchased power on their respective Consolidated Statements of Operations and Comprehensive Income. These intercompany revenues and expenses are eliminated in consolidation.
- (e) Piedmont has related party transactions as a customer of its equity method investments in Pine Needle, Hardy Storage, and Cardinal natural gas storage and transportation facilities. These expenses are included in Cost of natural gas on Piedmont's Consolidated Statements of Operations and Comprehensive Income.

FINANCIAL STATEMENTS

RELATED PARTY TRANSACTIONS

In addition to the amounts presented above, the Subsidiary Registrants have other affiliate transactions, including rental of office space, participation in a money pool arrangement, other operational transactions and their proportionate share of certain charged expenses. See Note 6 for more information regarding money pool. These transactions of the Subsidiary Registrants are incurred in the ordinary course of business and are eliminated in consolidation.

As discussed in Note 17, certain trade receivables have been sold by Duke Energy Ohio and Duke Energy Indiana to CRC, an affiliate formed by a subsidiary of Duke Energy. The proceeds obtained from the sales of receivables are largely cash but do include a subordinated note from CRC for a portion of the purchase price.

Intercompany Income Taxes

Duke Energy and the Subsidiary Registrants file a consolidated federal income tax return and other state and jurisdictional returns. The Subsidiary Registrants have a tax sharing agreement with Duke Energy for the allocation of consolidated tax liabilities and benefits. Income taxes recorded represent amounts the Subsidiary Registrants would incur as separate C-Corporations. The following table includes the balance of intercompany income tax receivables and payables for the Subsidiary Registrants.

(in millions)	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
December 31, 2020							
Intercompany income tax receivable	\$ —	\$ —	\$ —	\$ —	\$ —	9 \$	10
Intercompany income tax payable	31	33	46	35	2	—	—
December 31, 2019							
Intercompany income tax receivable	\$ —	125 \$	28 \$	— \$	9 \$	28 \$	13
Intercompany income tax payable	5	—	—	2	—	—	—

14. DERIVATIVES AND HEDGING

The Duke Energy Registrants use commodity and interest rate contracts to manage commodity price risk and interest rate risk. The primary use of commodity derivatives is to hedge the generation portfolio against changes in the prices of electricity and natural gas. Piedmont enters into natural gas supply contracts to provide diversification, reliability and natural gas cost benefits to its customers. Interest rate derivatives are used to manage interest rate risk associated with borrowings.

All derivative instruments not identified as NPNS are recorded at fair value as assets or liabilities on the Consolidated Balance Sheets. Cash collateral related to derivative instruments executed under master netting arrangements is offset against the collateralized derivatives on the Consolidated Balance Sheets. The cash impacts of settled derivatives are recorded as operating activities on the Consolidated Statements of Cash Flows.

INTEREST RATE RISK

The Duke Energy Registrants are exposed to changes in interest rates as a result of their issuance or anticipated issuance of variable-rate and fixed-rate debt and commercial paper. Interest rate risk is managed by limiting variable-rate exposures to a percentage of total debt and by monitoring changes in interest rates. To manage risk associated with changes in interest rates, the Duke Energy Registrants may enter into interest rate swaps, U.S. Treasury lock agreements and other financial contracts. In anticipation of certain fixed-rate debt issuances, a series of forward-starting interest rate swaps or Treasury locks may be executed to lock in components of current market interest rates. These instruments are later terminated prior to or upon the issuance of the corresponding debt.

Cash Flow Hedges

For a derivative designated as hedging the exposure to variable cash flows of a future transaction, referred to as a cash flow hedge, the effective portion of the derivative's gain or loss is initially reported as a component of other comprehensive income and subsequently reclassified into earnings once the future transaction impacts earnings. Amounts for interest rate contracts are reclassified to earnings as interest expense over the term of the related debt. Gains and losses reclassified out of AOCI for the years ended December 31, 2020, 2019 and 2018, were not material. Duke Energy's interest rate derivatives designated as hedges include interest rate swaps used to hedge existing debt within the Commercial Renewables segment and forward-starting interest rate swaps not accounted for under regulatory accounting.

Undesignated Contracts

Undesignated contracts primarily include contracts not designated as a hedge because they are accounted for under regulatory accounting or contracts that do not qualify for hedge accounting.

Duke Energy's interest rate swaps for its regulated operations employ regulatory accounting. With regulatory accounting, the mark-to-market gains or losses on the swaps are deferred as regulatory liabilities or regulatory assets, respectively. Regulatory assets and liabilities are amortized consistent with the treatment of the related costs in the ratemaking process. The accrual of interest on the swaps is recorded as Interest Expense on the Duke Energy Registrant's Consolidated Statements of Operations and Comprehensive Income.

FINANCIAL STATEMENTS

DERIVATIVES AND HEDGING

The following tables show notional amounts of outstanding derivatives related to interest rate risk.

(in millions)	December 31, 2020					
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio
Cash flow hedges	\$ 632	\$ —	\$ —	\$ —	\$ —	\$ —
Undesignated contracts	1,177	400	750	750	—	27
Total notional amount ^(a)	\$ 1,809	\$ 400	\$ 750	\$ 750	\$ —	\$ 27

(in millions)	December 31, 2019					
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio
Cash flow hedges	\$ 993	\$ —	\$ —	\$ —	\$ —	\$ —
Undesignated contracts	1,277	450	800	250	550	27
Total notional amount ^(a)	\$ 2,270	\$ 450	\$ 800	\$ 250	\$ 550	\$ 27

(a) Duke Energy includes amounts related to consolidated VIEs of \$632 million in cash flow hedges as of December 31, 2020, and \$693 million in cash flow hedges as of December 31, 2019.

COMMODITY PRICE RISK

The Duke Energy Registrants are exposed to the impact of changes in the prices of electricity purchased and sold in bulk power markets and natural gas purchases, including Piedmont's natural gas supply contracts. Exposure to commodity price risk is influenced by a number of factors including the term of contracts, the liquidity of markets and delivery locations. To manage risk associated with commodity prices, the Duke Energy Registrants may enter into long-term power purchase or sales contracts and long-term natural gas supply agreements.

Cash Flow Hedges

For derivatives designated as hedging the exposure to variable cash flows of a future transaction, referred to as a cash flow hedge, the derivative's gain or loss is initially reported as a component of other comprehensive income and subsequently reclassified into earnings once the future transaction impacts earnings. Gains and losses reclassified out of accumulated other comprehensive income (loss) for the year ended December 31, 2020, 2019 and 2018, were not material. Duke Energy's commodity derivatives designated as hedges include long-term electricity sales in the Commercial Renewables segment.

Undesignated Contracts

For the Subsidiary Registrants, bulk power electricity and natural gas purchases flow through fuel adjustment clauses, formula-based contracts or other cost sharing mechanisms. Differences between the costs included in rates and the incurred costs, including undesignated derivative contracts, are largely deferred as regulatory assets or regulatory liabilities. Piedmont policies allow for the use of financial instruments to hedge commodity price risks. The strategy and objective of these hedging programs are to use the financial instruments to reduce gas cost volatility for customers.

Volumes

The tables below include volumes of outstanding commodity derivatives. Amounts disclosed represent the absolute value of notional volumes of commodity contracts excluding NPNS. The Duke Energy Registrants have netted contractual amounts where offsetting purchase and sale contracts exist with identical delivery locations and times of delivery. Where all commodity positions are perfectly offset, no quantities are shown.

	December 31, 2020						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Electricity (GWh) ^(a)	35,409	—	—	—	2,559	10,802	—
Natural gas (millions of Dth)	678	145	158	158	—	2	373

FINANCIAL STATEMENTS

DERIVATIVES AND HEDGING

	December 31, 2019						
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Electricity (GWh)	15,858	—	—	—	1,887	13,971	—
Natural gas (millions of Dth)	704	130	160	160	—	3	411

(a) Duke Energy includes 22,048 GWh that relates to cash flow hedges.

LOCATION AND FAIR VALUE OF DERIVATIVE ASSETS AND LIABILITIES RECOGNIZED IN THE CONSOLIDATED BALANCE SHEETS

The following tables show the fair value and balance sheet location of derivative instruments. Although derivatives subject to master netting arrangements are netted on the Consolidated Balance Sheets, the fair values presented below are shown gross and cash collateral on the derivatives has not been netted against the fair values shown.

Derivative Assets				December 31, 2020												
		Duke Energy	Duke Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont							
(in millions)		Energy														
Commodity Contracts																
Not Designated as Hedging Instruments																
Current	\$	30	\$	14	\$	9	\$	—	\$	1	\$	6	\$	1		
Noncurrent		13		6		6		—		—		—		—		
Total Derivative Assets – Commodity Contracts	\$	43	\$	20	\$	15	\$	15	\$	—	\$	1	\$	6	\$	1
Interest Rate Contracts																
Not Designated as Hedging Instruments																
Current	\$	18	\$	—	\$	18	\$	18	\$	—	\$	—	\$	—	\$	—
Total Derivative Assets – Interest Rate Contracts	\$	18	\$	—	\$	18	\$	18	\$	—	\$	—	\$	—	\$	—
Total Derivative Assets	\$	61	\$	20	\$	33	\$	33	\$	—	\$	1	\$	6	\$	1

Derivative Liabilities				December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont			
(in millions)											
Commodity Contracts											
Designated as Hedging Instruments											
Current	\$ 14	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —		
Noncurrent	70	—	—	—	—	—	—	—	—		
Not Designated as Hedging Instruments											
Current	\$ 30	\$ 13	\$ 2	\$ 2	\$ —	\$ —	\$ 1	\$ 15			
Noncurrent	137	3	27	12	—	—	—	107			
Total Derivative Liabilities – Commodity Contracts	\$ 251	\$ 16	\$ 29	\$ 14	\$ —	\$ —	\$ 1	\$ 122			
Interest Rate Contracts											
Designated as Hedging Instruments											
Current	\$ 15	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —			
Noncurrent	48	—	—	—	—	—	—	—			
Not Designated as Hedging Instruments											
Current	5	4	—	—	—	1	—	—			
Noncurrent	5	—	—	—	—	5	—	—			
Total Derivative Liabilities – Interest Rate Contracts	\$ 73	\$ 4	\$ —	\$ —	\$ —	\$ 6	\$ —	\$ —			
Total Derivative Liabilities	\$ 324	\$ 20	\$ 29	\$ 14	\$ —	\$ 6	\$ 1	\$ 122			

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FINANCIAL STATEMENTS

DERIVATIVES AND HEDGING

Derivative Assets				December 31, 2019										
		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont					
(in millions)		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont					
Commodity Contracts														
Not Designated as Hedging Instruments														
Current	\$	17	\$	—	\$	—	\$	3	\$	13	\$	1		
Noncurrent		1		—		—		1		—		—		
Total Derivative Assets – Commodity Contracts	\$	18	\$	—	\$	—	\$	4	\$	13	\$	1		
Interest Rate Contracts														
Not Designated as Hedging Instruments														
Current		6		—		6		—		—		—		
Total Derivative Assets – Interest Rate Contracts	\$	6	\$	—	\$	6	\$	—	\$	—	\$	—		
Equity Securities Contracts														
Not Designated as Hedging Instruments														
Current	\$	1	\$	—	\$	1	\$	—	\$	—	\$	—		
Total Derivative Assets – Equity Securities Contracts	\$	1	\$	—	\$	1	\$	—	\$	—	\$	—		
Total Derivative Assets	\$	25	\$	—	\$	7	\$	7	\$	4	\$	13	\$	1

Derivative Liabilities				December 31, 2019												
		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont							
(in millions)		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont							
Commodity Contracts																
Not Designated as Hedging Instruments																
Current	\$	67	\$	33	\$	26	\$	26	\$	—	\$	—	\$	1	\$	7
Noncurrent		156		10		37		22		—		—		—		110
Total Derivative Liabilities – Commodity Contracts	\$	223	\$	43	\$	63	\$	48	\$	—	\$	—	\$	1	\$	117
Interest Rate Contracts																
Designated as Hedging Instruments																
Current	\$	19	\$	—	\$	—	\$	—	\$	—	\$	—	\$	—	\$	—
Noncurrent		21		—		—		—		—		—		—		—
Not Designated as Hedging Instruments																
Current		8		6		1		1		—		1		—		—
Noncurrent		5		—		—		—		—		5		—		—
Total Derivative Liabilities – Interest Rate Contracts	\$	53	\$	6	\$	1	\$	1	\$	—	\$	6	\$	—	\$	—
Equity Securities Contracts																
Not Designated as Hedging Instruments																
Current	\$	24	\$	—	\$	24	\$	—	\$	24	\$	—	\$	—	\$	—
Total Derivative Liabilities – Equity Securities Contracts	\$	24	\$	—	\$	24	\$	—	\$	24	\$	—	\$	—	\$	—
Total Derivative Liabilities	\$	300	\$	49	\$	88	\$	49	\$	24	\$	6	\$	1	\$	117

FINANCIAL STATEMENTS

DERIVATIVES AND HEDGING

OFFSETTING ASSETS AND LIABILITIES

The following tables present the line items on the Consolidated Balance Sheets where derivatives are reported. Substantially all of Duke Energy's outstanding derivative contracts are subject to enforceable master netting arrangements. The gross amounts offset in the tables below show the effect of these netting arrangements on financial position and include collateral posted to offset the net position. The amounts shown are calculated by counterparty. Accounts receivable or accounts payable may also be available to offset exposures in the event of bankruptcy. These amounts are not included in the tables below.

Derivative Assets			December 31, 2020													
			Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont						
(in millions)																
Current																
Gross amounts recognized	\$	48	\$	14	\$	27	\$	27	\$	—	\$	1	\$	6	\$	1
Gross amounts offset		(3)		(2)		(2)		(2)		—		—		—		—
Net amounts presented in Current Assets: Other	\$	45	\$	12	\$	25	\$	25	\$	—	\$	1	\$	6	\$	1
Noncurrent																
Gross amounts recognized	\$	13	\$	6	\$	6	\$	6	\$	—	\$	—	\$	—	\$	—
Gross amounts offset		(5)		(1)		(4)		(4)		—		—		—		—
Net amounts presented in Other Noncurrent Assets: Other	\$	8	\$	5	\$	2	\$	2	\$	—	\$	—	\$	—	\$	—

Derivative Liabilities			December 31, 2020													
			Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont						
(in millions)																
Current																
Gross amounts recognized	\$	64	\$	17	\$	2	\$	2	\$	—	\$	1	\$	1	\$	15
Gross amounts offset		(3)		(2)		(2)		(2)		—		—		—		—
Net amounts presented in Current Liabilities: Other	\$	61	\$	15	\$	—	\$	—	\$	—	\$	1	\$	1	\$	15
Noncurrent																
Gross amounts recognized	\$	260	\$	3	\$	27	\$	12	\$	—	\$	5	\$	—	\$	107
Gross amounts offset		(5)		(1)		(4)		(4)		—		—		—		—
Net amounts presented in Other Noncurrent Liabilities: Other	\$	255	\$	2	\$	23	\$	8	\$	—	\$	5	\$	—	\$	107

Derivative Assets			December 31, 2019													
			Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont						
(in millions)																
Current																
Gross amounts recognized	\$	24	\$	—	\$	7	\$	—	\$	7	\$	3	\$	13	\$	1
Gross amounts offset		(1)		—		(1)		—		(1)		—		—		—
Net amounts presented in Current Assets: Other	\$	23	\$	—	\$	6	\$	—	\$	6	\$	3	\$	13	\$	1
Noncurrent																
Gross amounts recognized	\$	1	\$	—	\$	—	\$	—	\$	—	\$	1	\$	—	\$	—
Gross amounts offset		—		—		—		—		—		—		—		—
Net amounts presented in Other Noncurrent Assets: Other	\$	1	\$	—	\$	—	\$	—	\$	—	\$	1	\$	—	\$	—

FINANCIAL STATEMENTS

DERIVATIVES AND HEDGING

Derivative Liabilities (in millions)	December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current								
Gross amounts recognized	\$ 118	\$ 39	\$ 51	\$ 27	\$ 24	\$ 1	\$ 1	\$ 7
Gross amounts offset	(24)	—	(24)	—	(24)	—	—	—
Net amounts presented in Current Liabilities: Other	\$ 94	\$ 39	\$ 27	\$ 27	\$ —	\$ 1	\$ 1	\$ 7
Noncurrent								
Gross amounts recognized	\$ 182	\$ 10	\$ 37	\$ 22	\$ —	\$ 5	\$ —	\$ 110
Gross amounts offset	—	—	—	—	—	—	—	—
Net amounts presented in Other Noncurrent Liabilities: Other	\$ 182	\$ 10	\$ 37	\$ 22	\$ —	\$ 5	\$ —	\$ 110

OBJECTIVE CREDIT CONTINGENT FEATURES

Certain derivative contracts contain objective credit contingent features. These features include the requirement to post cash collateral or letters of credit if specific events occur, such as a credit rating downgrade below investment grade. The following tables show information with respect to derivative contracts that are in a net liability position and contain objective credit-risk-related payment provisions.

(in millions)	December 31, 2020			
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress
Aggregate fair value of derivatives in a net liability position	\$ 24	\$ 9	\$ 14	\$ 14
Fair value of collateral already posted	—	—	—	—
Additional cash collateral or letters of credit in the event credit-risk-related contingent features were triggered	24	9	14	14

(in millions)	December 31, 2019			
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress
Aggregate fair value of derivatives in a net liability position	\$ 79	\$ 35	\$ 44	\$ 44
Fair value of collateral already posted	—	—	—	—
Additional cash collateral or letters of credit in the event credit-risk-related contingent features were triggered	79	35	44	44

The Duke Energy Registrants have elected to offset cash collateral and fair values of derivatives. For amounts to be netted, the derivative and cash collateral must be executed with the same counterparty under the same master netting arrangement.

15. INVESTMENTS IN DEBT AND EQUITY SECURITIES

Duke Energy's investments in debt and equity securities are primarily comprised of investments held in (i) the NDTF at Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, (ii) the grantor trusts at Duke Energy Progress, Duke Energy Florida and Duke Energy Indiana related to OPEB plans and (iii) Bison. The Duke Energy Registrants classify investments in debt securities as AFS and investments in equity securities as FV-NI.

For investments in debt securities classified as AFS, the unrealized gains and losses are included in other comprehensive income until realized, at which time they are reported through net income. For investments in equity securities classified as FV-NI, both realized and unrealized gains and losses are reported through net income. Substantially all of Duke Energy's investments in debt and equity securities qualify for regulatory accounting, and accordingly, all associated realized and unrealized gains and losses on these investments are deferred as a regulatory asset or liability.

Duke Energy classifies the majority of investments in debt and equity securities as long term, unless otherwise noted.

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FINANCIAL STATEMENTS

INVESTMENTS IN DEBT AND EQUITY SECURITIES

Investment Trusts

The investments within the Investment Trusts are managed by independent investment managers with discretion to buy, sell and invest pursuant to the objectives set forth by the investment manager agreements and trust agreements. The Duke Energy Registrants have limited oversight of the day-to-day management of these investments. As a result, the ability to hold investments in unrealized loss positions is outside the control of the Duke Energy Registrants. Accordingly, all unrealized losses associated with debt securities within the Investment Trusts are recognized immediately and deferred to regulatory accounts where appropriate.

Other AFS Securities

Unrealized gains and losses on all other AFS securities are included in other comprehensive income until realized, unless it is determined the carrying value of an investment has a credit loss. The Duke Energy Registrants analyze all investment holdings each reporting period to determine whether a decline in fair value is related to a credit loss. If a credit loss exists, the unrealized credit loss is included in earnings. There were no material credit losses as of December 31, 2020, and 2019.

Other Investments amounts are recorded in Other within Other Noncurrent Assets on the Consolidated Balance Sheets.

DUKE ENERGY

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2020			December 31, 2019		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 177	\$ —	\$ —	\$ 101
Equity securities	4,138	54	6,235	3,523	55	5,661
Corporate debt securities	76	1	806	37	1	603
Municipal bonds	22	—	370	13	—	368
U.S. government bonds	51	—	1,361	33	1	1,256
Other debt securities	8	—	180	3	—	141
Total NDTF Investments	\$ 4,295	\$ 55	\$ 9,129	\$ 3,609	\$ 57	\$ 8,130
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 127	\$ —	\$ —	\$ 52
Equity securities	79	—	146	57	—	122
Corporate debt securities	8	—	110	3	—	67
Municipal bonds	5	—	86	4	—	94
U.S. government bonds	—	—	42	2	—	41
Other debt securities	—	—	47	—	—	56
Total Other Investments	\$ 92	\$ —	\$ 558	\$ 66	\$ —	\$ 432
Total Investments	\$ 4,387	\$ 55	\$ 9,687	\$ 3,675	\$ 57	\$ 8,562

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2020
Due in one year or less	\$ 149
Due after one through five years	922
Due after five through 10 years	671
Due after 10 years	1,260
Total	\$ 3,002

FINANCIAL STATEMENTS

INVESTMENTS IN DEBT AND EQUITY SECURITIES

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the years ended December 31, 2020, 2019 and 2018, were as follows.

(in millions)	Years Ended December 31,		
	2020	2019	2018
FV-NI:			
Realized gains	\$ 366	\$ 172	\$ 168
Realized losses	174	151	126
AFS:			
Realized gains	96	94	22
Realized losses	51	67	51

DUKE ENERGY CAROLINAS

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2020			December 31, 2019		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 30	\$ —	\$ —	\$ 21
Equity securities	2,442	23	3,685	1,914	8	3,154
Corporate debt securities	49	1	510	21	1	361
Municipal bonds	6	—	91	3	—	96
U.S. government bonds	25	—	475	16	1	578
Other debt securities	7	—	174	3	—	137
Total NDTF Investments	\$ 2,529	\$ 24	\$ 4,965	\$ 1,957	\$ 10	\$ 4,347

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2020
Due in one year or less	\$ 14
Due after one through five years	299
Due after five through 10 years	279
Due after 10 years	658
Total	\$ 1,250

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the years ended December 31, 2020, 2019 and 2018, were as follows.

(in millions)	Years Ended December 31,		
	2020	2019	2018
FV-NI:			
Realized gains	\$ 64	\$ 113	\$ 89
Realized losses	99	107	73
AFS:			
Realized gains	60	55	19
Realized losses	37	38	35

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FINANCIAL STATEMENTS

INVESTMENTS IN DEBT AND EQUITY SECURITIES

PROGRESS ENERGY

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2020			December 31, 2019		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 147	\$ —	\$ —	\$ 80
Equity securities	1,696	31	2,550	1,609	47	2,507
Corporate debt securities	27	—	296	16	—	242
Municipal bonds	16	—	279	10	—	272
U.S. government bonds	26	—	886	17	—	678
Other debt securities	1	—	6	—	—	4
Total NDTF Investments	\$ 1,766	\$ 31	\$ 4,164	\$ 1,652	\$ 47	\$ 3,783
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 106	\$ —	\$ —	\$ 49
Municipal bonds	3	—	26	3	—	51
Total Other Investments	\$ 3	\$ —	\$ 132	\$ 3	\$ —	\$ 100
Total Investments	\$ 1,769	\$ 31	\$ 4,296	\$ 1,655	\$ 47	\$ 3,883

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2020
Due in one year or less	\$ 109
Due after one through five years	567
Due after five through 10 years	298
Due after 10 years	519
Total	\$ 1,493

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the years ended December 31, 2020, 2019 and 2018, were as follows.

(in millions)	Years Ended December 31,		
	2020	2019	2018
FV-NI:			
Realized gains	\$ 302	\$ 59	\$ 79
Realized losses	75	44	53
AFS:			
Realized gains	24	36	3
Realized losses	13	29	15

FINANCIAL STATEMENTS

INVESTMENTS IN DEBT AND EQUITY SECURITIES

DUKE ENERGY PROGRESS

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2020			December 31, 2019		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 76	\$ —	\$ —	\$ 53
Equity securities	1,617	31	2,459	1,258	21	2,077
Corporate debt securities	27	—	296	16	—	242
Municipal bonds	16	—	279	10	—	272
U.S. government bonds	26	—	412	16	—	403
Other debt securities	1	—	6	—	—	4
Total NDTF Investments	\$ 1,687	\$ 31	\$ 3,528	\$ 1,300	\$ 21	\$ 3,051
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 1	\$ —	\$ —	\$ 2
Total Other Investments	\$ —	\$ —	\$ 1	\$ —	\$ —	\$ 2
Total Investments	\$ 1,687	\$ 31	\$ 3,529	\$ 1,300	\$ 21	\$ 3,053

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2020
Due in one year or less	\$ 21
Due after one through five years	259
Due after five through 10 years	210
Due after 10 years	503
Total	\$ 993

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the years ended December 31, 2020, 2019 and 2018, were as follows.

(in millions)	Years Ended December 31,		
	2020	2019	2018
FV-NI:			
Realized gains	\$ 52	\$ 38	\$ 68
Realized losses	59	33	48
AFS:			
Realized gains	24	7	2
Realized losses	13	5	10

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Step 13 2021

FINANCIAL STATEMENTS

INVESTMENTS IN DEBT AND EQUITY SECURITIES

DUKE ENERGY FLORIDA

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are classified as FV-NI and debt investments are classified as AFS.

(in millions)	December 31, 2020			December 31, 2019		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
NDTF						
Cash and cash equivalents	\$ —	\$ —	\$ 71	\$ —	\$ —	\$ 27
Equity securities	79	—	91	351	26	430
U.S. government bonds	—	—	474	1	—	275
Total NDTF Investments^(a)	\$ 79	\$ —	\$ 636	\$ 352	\$ 26	\$ 732
Other Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 1	\$ —	\$ —	\$ 4
Municipal bonds	3	—	26	3	—	51
Total Other Investments	\$ 3	\$ —	\$ 27	\$ 3	\$ —	\$ 55
Total Investments	\$ 82	\$ —	\$ 663	\$ 355	\$ 26	\$ 787

- (a) During the years ended December 31, 2020, and 2019, Duke Energy Florida continued to receive reimbursements from the NDTF for costs related to ongoing decommissioning activity of the Crystal River Unit 3.

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2020
Due in one year or less	\$ 88
Due after one through five years	308
Due after five through 10 years	88
Due after 10 years	16
Total	\$ 500

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the years ended December 31, 2020, 2019 and 2018, were as follows.

(in millions)	Years Ended December 31,		
	2020	2019	2018
FV-NI:			
Realized gains	\$ 250	\$ 21	\$ 11
Realized losses	16	11	5
AFS:			
Realized gains	—	29	1
Realized losses	—	24	5

FINANCIAL STATEMENTS

INVESTMENTS IN DEBT AND EQUITY SECURITIES

DUKE ENERGY INDIANA

The following table presents the estimated fair value of investments in debt and equity securities; equity investments are measured at FV-NI and debt investments are classified as AFS.

	December 31, 2020			December 31, 2019		
	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
(in millions)						
Investments						
Cash and cash equivalents	\$ —	\$ —	\$ 1	\$ —	\$ —	\$ —
Equity securities	58	—	97	43	—	81
Corporate debt securities	—	—	3	—	—	6
Municipal bonds	1	—	38	1	—	36
U.S. government bonds	—	—	4	—	—	2
Total Investments	\$ 59	\$ —	\$ 143	\$ 44	\$ —	\$ 125

The table below summarizes the maturity date for debt securities.

(in millions)	December 31, 2020
Due in one year or less	\$ 3
Due after one through five years	17
Due after five through 10 years	10
Due after 10 years	15
Total	\$ 45

Realized gains and losses, which were determined on a specific identification basis, from sales of FV-NI and AFS securities for the years ended December 31, 2020, 2019 and 2018, were immaterial.

16. FAIR VALUE MEASUREMENTS

Fair value is the exchange price to sell an asset or transfer a liability in an orderly transaction between market participants at the measurement date. The fair value definition focuses on an exit price versus the acquisition cost. Fair value measurements use market data or assumptions market participants would use in pricing the asset or liability, including assumptions about risk and the risks inherent in the inputs to the valuation technique. These inputs may be readily observable, corroborated by market data, or generally unobservable. Valuation techniques maximize the use of observable inputs and minimize use of unobservable inputs. A midmarket pricing convention (the midpoint price between bid and ask prices) is permitted for use as a practical expedient.

Fair value measurements are classified in three levels based on the fair value hierarchy as defined by GAAP. Certain investments are not categorized within the fair value hierarchy. These investments are measured at fair value using the net asset value per share practical expedient. The net asset value is derived based on the investment cost, less any impairment, plus or minus changes resulting from observable price changes for an identical or similar investment of the same issuer.

Fair value accounting guidance permits entities to elect to measure certain financial instruments that are not required to be accounted for at fair value, such as equity method investments or the company's own debt, at fair value. The Duke Energy Registrants have not elected to record any of these items at fair value.

Valuation methods of the primary fair value measurements disclosed below are as follows.

Investments in equity securities

The majority of investments in equity securities are valued using Level 1 measurements. Investments in equity securities are typically valued at the closing price in the principal active market as of the last business day of the quarter. Principal active markets for equity prices include published exchanges such as the NYSE and Nasdaq Stock Market. Foreign equity prices are translated from their trading currency using the currency exchange rate in effect at the close of the principal active market. There was no after-hours market activity that was required to be reflected in the reported fair value measurements.

Investments in debt securities

Most investments in debt securities are valued using Level 2 measurements because the valuations use interest rate curves and credit spreads applied to the terms of the debt instrument (maturity and coupon interest rate) and consider the counterparty credit rating. If the market for a particular fixed-income security is relatively inactive or illiquid, the measurement is Level 3.

FINANCIAL STATEMENTS

FAIR VALUE MEASUREMENTS

Commodity derivatives

Commodity derivatives with clearinghouses are classified as Level 1. Commodity derivatives with observable forward curves are classified as Level 2. If forward price curves are not observable for the full term of the contract and the unobservable period had more than an insignificant impact on the valuation, the commodity derivative is classified as Level 3. In isolation, increases (decreases) in natural gas forward prices result in favorable (unfavorable) fair value adjustments for natural gas purchase contracts; and increases (decreases) in electricity forward prices result in unfavorable (favorable) fair value adjustments for electricity sales contracts. Duke Energy regularly evaluates and validates pricing inputs used to estimate the fair value of natural gas commodity contracts by a market participant price verification procedure. This procedure provides a comparison of internal forward commodity curves to market participant generated curves.

Interest rate derivatives

Most over-the-counter interest rate contract derivatives are valued using financial models that utilize observable inputs for similar instruments and are classified as Level 2. Inputs include forward interest rate curves, notional amounts, interest rates and credit quality of the counterparties.

Other fair value considerations

See Note 11 for a discussion of the valuation of goodwill and intangible assets.

DUKE ENERGY

The following tables provide recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets. Derivative amounts in the tables below for all Duke Energy Registrants exclude cash collateral, which is disclosed in Note 14. See Note 15 for additional information related to investments by major security type for the Duke Energy Registrants.

(in millions)	December 31, 2020				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized
NDTF cash and cash equivalents	\$ 177	\$ 177	\$ —	\$ —	\$ —
NDTF equity securities	6,235	6,189	—	—	46
NDTF debt securities	2,717	874	1,843	—	—
Other equity securities	146	146	—	—	—
Other debt securities	285	37	248	—	—
Other cash and cash equivalents	127	127	—	—	—
Derivative assets	61	1	53	7	—
Total assets	9,748	7,551	2,144	7	46
Derivative liabilities	(324)	—	(240)	(84)	—
Net assets (liabilities)	\$ 9,424	\$ 7,551	\$ 1,904	\$ (77)	\$ 46

(in millions)	December 31, 2019				
	Total Fair Value	Level 1	Level 2	Level 3	Not Categorized
NDTF cash and cash equivalents	\$ 101	\$ 101	\$ —	\$ —	\$ —
NDTF equity securities	5,684	5,633	—	—	51
NDTF debt securities	2,368	725	1,643	—	—
Other equity securities	122	122	—	—	—
Other debt securities	258	39	219	—	—
Other cash and cash equivalents	52	52	—	—	—
Derivative assets	25	3	7	15	—
Total assets	8,610	6,675	1,869	15	51
NDTF equity security contracts	(23)	—	(23)	—	—
Derivative liabilities	(277)	(15)	(145)	(117)	—
Net assets (liabilities)	\$ 8,310	\$ 6,660	\$ 1,701	\$ (102)	\$ 51

FINANCIAL STATEMENTS

FAIR VALUE MEASUREMENTS

The following table provides reconciliations of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Derivatives (net)	
	Years Ended December 31,	
	2020	2019
Balance at beginning of period	\$ (102)	\$ (113)
Total pretax realized or unrealized losses included in comprehensive income	(84)	—
Purchases, sales, issuances and settlements:		
Purchases	14	37
Settlements	(19)	(44)
Net transfers Out of Level 3 ^(a)	117	—
Total (losses) gains included on the Consolidated Balance Sheet	(3)	18
Balance at end of period	\$ (77)	\$ (102)

(a) Transferred from Level 3 to Level 2 because observable market data became available.

DUKE ENERGY CAROLINAS

The following tables provide recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2020			
	Total Fair Value	Level 1	Level 2	Not Categorized
NDTF cash and cash equivalents	\$ 30	\$ 30	\$ —	\$ —
NDTF equity securities	3,685	3,639	—	46
NDTF debt securities	1,250	192	1,058	—
Derivative assets	20	—	20	—
Total assets	4,985	3,861	1,078	46
Derivative liabilities	(20)	—	(20)	—
Net assets	\$ 4,965	\$ 3,861	\$ 1,058	\$ 46

(in millions)	December 31, 2019			
	Total Fair Value	Level 1	Level 2	Not Categorized
NDTF cash and cash equivalents	\$ 21	\$ 21	\$ —	\$ —
NDTF equity securities	3,154	3,103	—	51
NDTF debt securities	1,172	206	966	—
Total assets	4,347	3,330	966	51
Derivative liabilities	(49)	—	(49)	—
Net assets	\$ 4,298	\$ 3,330	\$ 917	\$ 51

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Step 13 2021

FINANCIAL STATEMENTS

FAIR VALUE MEASUREMENTS

PROGRESS ENERGY

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2020			December 31, 2019		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 2
NDTF cash and cash equivalents	\$ 147	\$ 147	\$ —	\$ 80	\$ 80	\$ —
NDTF equity securities	2,550	2,550	—	2,530	2,530	—
NDTF debt securities	1,467	682	785	1,196	519	677
Other debt securities	26	—	26	51	—	51
Other cash and cash equivalents	106	106	—	49	49	—
Derivative assets	33	—	33	7	—	7
Total assets	4,329	3,485	844	3,913	3,178	735
NDTF equity security contracts	—	—	—	(23)	—	(23)
Derivative liabilities	(29)	—	(29)	(65)	—	(65)
Net assets	\$ 4,300	\$ 3,485	\$ 815	\$ 3,825	\$ 3,178	\$ 647

DUKE ENERGY PROGRESS

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2020			December 31, 2019		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 2
NDTF cash and cash equivalents	\$ 76	\$ 76	\$ —	\$ 53	\$ 53	\$ —
NDTF equity securities	2,459	2,459	—	2,077	2,077	—
NDTF debt securities	993	237	756	921	244	677
Other cash and cash equivalents	1	1	—	2	2	—
Derivative assets	33	—	33	—	—	—
Total assets	3,562	2,773	789	3,053	2,376	677
Derivative liabilities	(14)	—	(14)	(49)	—	(49)
Net assets	\$ 3,548	\$ 2,773	\$ 775	\$ 3,004	\$ 2,376	\$ 628

DUKE ENERGY FLORIDA

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2020			December 31, 2019		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 2
NDTF cash and cash equivalents	\$ 71	\$ 71	\$ —	\$ 27	\$ 27	\$ —
NDTF equity securities	91	91	—	453	453	—
NDTF debt securities	474	445	29	275	275	—
Other debt securities	26	—	26	51	—	51
Other cash and cash equivalents	1	1	—	4	4	—
Derivative assets	—	—	—	7	—	7
Total assets	663	608	55	817	759	58
NDTF equity security contracts	—	—	—	(23)	—	(23)
Derivative liabilities	—	—	—	(1)	—	(1)
Net assets	\$ 663	\$ 608	\$ 55	\$ 793	\$ 759	\$ 34

DUKE ENERGY OHIO

The recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets were not material at December 31, 2020, and 2019.

FINANCIAL STATEMENTS

FAIR VALUE MEASUREMENTS

DUKE ENERGY INDIANA

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2020				December 31, 2019			
	Total Fair Value	Level 1	Level 2	Level 3	Total Fair Value	Level 1	Level 2	Level 3
Other equity securities	\$ 97	\$ 97	\$ —	\$ —	\$ 81	\$ 81	\$ —	\$ —
Other debt securities	45	—	45	—	44	—	44	—
Other cash equivalents	1	1	—	—	—	—	—	—
Derivative assets	6	—	—	6	13	2	—	11
Total assets	149	98	45	6	138	83	44	11
Derivative liabilities	(1)	(1)	—	—	(1)	(1)	—	—
Total assets	\$ 148	\$ 97	\$ 45	\$ 6	\$ 137	\$ 82	\$ 44	\$ 11

The following table provides a reconciliation of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Derivatives (net)	
	Years Ended December 31,	
	2020	2019
Balance at beginning of period	\$ 11	\$ 22
Purchases, sales, issuances and settlements:		
Purchases	10	28
Settlements	(13)	(36)
Total losses included on the Consolidated Balance Sheet	(2)	(3)
Balance at end of period	\$ 6	\$ 11

PIEDMONT

The following table provides recorded balances for assets and liabilities measured at fair value on a recurring basis on the Consolidated Balance Sheets.

(in millions)	December 31, 2020			December 31, 2019		
	Total Fair Value	Level 1	Level 2	Total Fair Value	Level 1	Level 3
Derivative assets	\$ 1	\$ 1	\$ —	\$ 1	\$ 1	\$ —
Derivative liabilities	(122)	—	(122)	(117)	—	(117)
Net (liabilities) assets	\$ (121)	\$ 1	(122)	\$ (116)	\$ 1	(117)

The following table provides a reconciliation of beginning and ending balances of assets and liabilities measured at fair value using Level 3 measurements.

(in millions)	Derivatives (net)	
	Years Ended December 31,	
	2020	2019
Balance at beginning of period	\$ (117)	\$ (141)
Net transfers Out of Level 3 ^(a)	117	—
Total gains and settlements	—	24
Balance at end of period	\$ —	\$ (117)

(a) Transferred from Level 3 to Level 2 because observable market data became available.

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Step 13 2021

FINANCIAL STATEMENTS

FAIR VALUE MEASUREMENTS

QUANTITATIVE INFORMATION ABOUT UNOBSERVABLE INPUTS

The following tables include quantitative information about the Duke Energy Registrants' derivatives classified as Level 3.

December 31, 2020					
Investment Type	Fair Value (in millions)	Valuation Technique	Unobservable Input	Range	Weighted Average Range
Duke Energy					
Electricity contracts	\$ (84)	Discounted cash flow	Forward electricity curves – price per MWh	\$14.68 – \$151.84	\$ 28.84
Duke Energy Ohio					
FTRs	1	RTO auction pricing	FTR price – per MWh	0.25 – 1.68	0.79
Duke Energy Indiana					
FTRs	6	RTO auction pricing	FTR price – per MWh	(2.40) – 7.41	1.05
Duke Energy					
Total Level 3 derivatives	\$ (77)				

December 31, 2019					
Investment Type	Fair Value (in millions)	Valuation Technique	Unobservable Input	Range	Weighted Average Range
Duke Energy Ohio					
FTRs	\$ 4	RTO auction pricing	FTR price – per MWh	\$ 0.59 – \$ 3.47	\$ 2.07
Duke Energy Indiana					
FTRs	11	RTO auction pricing	FTR price – per MWh	(0.66) – 9.24	1.15
Piedmont					
Natural gas contracts	(117)	Discounted cash flow	Forward natural gas curves – price per MMBtu	1.59 – 2.46	1.91
Duke Energy					
Total Level 3 derivatives	\$ (102)				

OTHER FAIR VALUE DISCLOSURES

The fair value and book value of long-term debt, including current maturities, is summarized in the following table. Estimates determined are not necessarily indicative of amounts that could have been settled in current markets. Fair value of long-term debt uses Level 2 measurements.

(in millions)	December 31, 2020		December 31, 2019	
	Book Value	Fair Value	Book Value	Fair Value
Duke Energy ^(a)	\$ 59,863	\$ 69,292	\$ 58,126	\$ 63,062
Duke Energy Carolinas	12,218	14,917	11,900	13,516
Progress Energy	19,264	23,470	19,634	22,291
Duke Energy Progress	9,258	10,862	9,058	9,934
Duke Energy Florida	7,915	9,756	7,987	9,131
Duke Energy Ohio	3,089	3,650	2,619	2,964
Duke Energy Indiana	4,091	5,204	4,057	4,800
Piedmont	2,780	3,306	2,384	2,642

- (a) Book value of long-term debt includes \$1.3 billion as of December 31, 2020, and \$1.5 billion as of December 31, 2019, of unamortized debt discount and premium, net in purchase accounting adjustments related to the mergers with Progress Energy and Piedmont that are excluded from fair value of long-term debt.

At both December 31, 2020, and December 31, 2019, fair value of cash and cash equivalents, accounts and notes receivable, accounts payable, notes payable and commercial paper, and nonrecourse notes payable of VIEs are not materially different from their carrying amounts because of the short-term nature of these instruments and/or because the stated rates approximate market rates.

FINANCIAL STATEMENTS

VARIABLE INTEREST ENTITIES

17. VARIABLE INTEREST ENTITIES

A VIE is an entity that is evaluated for consolidation using more than a simple analysis of voting control. The analysis to determine whether an entity is a VIE considers contracts with an entity, credit support for an entity, the adequacy of the equity investment of an entity and the relationship of voting power to the amount of equity invested in an entity. This analysis is performed either upon the creation of a legal entity or upon the occurrence of an event requiring reevaluation, such as a significant change in an entity's assets or activities. A qualitative analysis of control determines the party that consolidates a VIE. This assessment is based on (i) what party has the power to direct the activities of the VIE that most significantly impact its economic performance and (ii) what party has rights to receive benefits or is obligated to absorb losses that could potentially be significant to the VIE. The analysis of the party that consolidates a VIE is a continual reassessment.

CONSOLIDATED VIEs

The obligations of the consolidated VIEs discussed in the following paragraphs are nonrecourse to the Duke Energy Registrants. The registrants have no requirement to provide liquidity to, purchase assets of or guarantee performance of these VIEs unless noted in the following paragraphs.

No financial support was provided to any of the consolidated VIEs during the years ended December 31, 2020, 2019 and 2018, or is expected to be provided in the future, that was not previously contractually required.

Receivables Financing – DERF/DEPR/DEFR

DERF, DEPR and DEFR are bankruptcy remote, special purpose subsidiaries of Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida, respectively. DERF, DEPR and DEFR are wholly owned LLCs with separate legal existence from their parent companies, and their assets are not generally available to creditors of their parent companies. On a revolving basis, DERF, DEPR and DEFR buy certain accounts receivable arising from the sale of electricity and related services from their parent companies.

DERF, DEPR and DEFR borrow amounts under credit facilities to buy these receivables. Borrowing availability from the credit facilities is limited to the amount of qualified receivables purchased, which generally exclude receivables past due more than a predetermined number of days and reserves for expected past-due balances. The sole source of funds to satisfy the related debt obligations is cash collections from the receivables. Amounts borrowed under the credit facilities for DERF and DEPR are reflected on the Consolidated Balance Sheets as Long-Term Debt. Amounts borrowed under the credit facilities for DEFR are reflected on the Consolidated Balance Sheets as Current maturities of long-term debt.

Due to the COVID-19 pandemic, as described in Note 1, the Duke Energy Registrants suspended customer disconnections for nonpayment. Since taking action to suspend customer disconnections for nonpayment, certain jurisdictions have now returned to normal operations and billing practices. The full impact of COVID-19 and the Duke Energy Registrant's related response on customers' ability to pay for service is uncertain. However, the level of past-due receivables at Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida have increased significantly during the COVID-19 pandemic, and it is reasonably possible eventual write-offs of customer receivables may increase over current estimates. In 2020, DERF, DEPR and DEFR executed amendments to their credit facilities to manage the impact of past-due receivables resulting from the suspension of customer disconnections from COVID-19. See Note 3 for information about COVID-19 filings with state utility commissions.

The most significant activity that impacts the economic performance of DERF, DEPR and DEFR are the decisions made to manage delinquent receivables. Duke Energy Carolinas, Duke Energy Progress and Duke Energy Florida are considered the primary beneficiaries and consolidate DERF, DEPR and DEFR, respectively, as they make those decisions.

Receivables Financing – CRC

CRC is a bankruptcy remote, special purpose entity indirectly owned by Duke Energy. On a revolving basis, CRC buys certain accounts receivable arising from the sale of electricity, natural gas and related services from Duke Energy Ohio and Duke Energy Indiana. CRC borrows amounts under a credit facility to buy the receivables from Duke Energy Ohio and Duke Energy Indiana. Borrowing availability from the credit facility is limited to the amount of qualified receivables sold to CRC, which generally exclude receivables past due more than a predetermined number of days and reserves for expected past-due balances. The sole source of funds to satisfy the related debt obligation is cash collections from the receivables. Amounts borrowed under the credit facility are reflected on Duke Energy's Consolidated Balance Sheets as Long-Term Debt.

The proceeds Duke Energy Ohio and Duke Energy Indiana receive from the sale of receivables to CRC are approximately 75% cash and 25% in the form of a subordinated note from CRC. The subordinated note is a retained interest in the receivables sold. Depending on collection experience, additional equity infusions to CRC may be required by Duke Energy to maintain a minimum equity balance of \$3 million.

Due to the COVID-19 pandemic, as described in Note 1, the Duke Energy Registrants suspended customer disconnections for nonpayment. Since taking action to suspend customer disconnections for nonpayment, certain jurisdictions have now returned to normal operations and billing practices. The full impact of COVID-19 and the Duke Energy Registrant's related response on customers' ability to pay for service is uncertain. However, the level of past-due receivables at Duke Energy Ohio and Duke Energy Indiana have increased significantly during the COVID-19 pandemic, and it is reasonably possible eventual write-offs of customer receivables may increase over current estimates. In July of 2020, CRC executed an amendment to its credit facility to manage the impact of past-due receivables resulting from the suspension of customer disconnections from COVID-19. See Note 3 for information about COVID-19 filings with state utility commissions.

CRC is considered a VIE because (i) equity capitalization is insufficient to support its operations, (ii) power to direct the activities that most significantly impact the economic performance of the entity is not held by the equity holder and (iii) deficiencies in net worth of CRC are funded by Duke Energy. The most significant activities that impact the economic performance of CRC are decisions made to manage delinquent receivables. Duke Energy is considered the primary beneficiary and consolidates CRC as it makes these decisions. Neither Duke Energy Ohio nor Duke Energy Indiana consolidate CRC.

FINANCIAL STATEMENTS

VARIABLE INTEREST ENTITIES

Receivables Financing – Credit Facilities

The following table summarizes the amounts and expiration dates of the credit facilities and associated restricted receivables described above.

(in millions)	Duke Energy			
	CRC	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Florida
		DERF	DEPR	DEFR
Expiration date	February 2023	December 2022	April 2023	April 2021
Credit facility amount	\$ 350	\$ 475	\$ 350	\$ 250
Amounts borrowed at December 31, 2020	350	364	250	250
Amounts borrowed at December 31, 2019	350	474	325	250
Restricted Receivables at December 31, 2020	547	696	500	397
Restricted Receivables at December 31, 2019	522	642	489	336

Nuclear Asset-Recovery Bonds – Duke Energy Florida Project Finance, LLC (DEFPF)

DEFPF is a bankruptcy remote, wholly owned special purpose subsidiary of Duke Energy Florida. DEFPF was formed in 2016 for the sole purpose of issuing nuclear asset-recovery bonds to finance Duke Energy Florida's unrecovered regulatory asset related to Crystal River Unit 3.

In 2016, DEFPF issued senior secured bonds and used the proceeds to acquire nuclear asset-recovery property from Duke Energy Florida. The nuclear asset-recovery property acquired includes the right to impose, bill, collect and adjust a non-bypassable nuclear asset-recovery charge from all Duke Energy Florida retail customers until the bonds are paid in full and all financing costs have been recovered. The nuclear asset-recovery bonds are secured by the nuclear asset-recovery property and cash collections from the nuclear asset-recovery charges are the sole source of funds to satisfy the debt obligation. The bondholders have no recourse to Duke Energy Florida.

DEFPF is considered a VIE primarily because the equity capitalization is insufficient to support its operations. Duke Energy Florida has the power to direct the significant activities of the VIE as described above and therefore Duke Energy Florida is considered the primary beneficiary and consolidates DEFPF.

The following table summarizes the impact of DEFPF on Duke Energy Florida's Consolidated Balance Sheets.

(in millions)	December 31,	
	2020	2019
Receivables of VIEs	\$ 4	\$ 5
Regulatory Assets: Current	53	52
Current Assets: Other	39	39
Other Noncurrent Assets: Regulatory assets	937	989
Current Liabilities: Other	10	10
Current maturities of long-term debt	55	54
Long-Term Debt	1,002	1,057

Commercial Renewables

Certain of Duke Energy's renewable energy facilities are VIEs due to Duke Energy issuing guarantees for debt service and operations and maintenance reserves in support of debt financings. Assets are restricted and cannot be pledged as collateral or sold to third parties without prior approval of debt holders. Additionally, Duke Energy has VIEs associated with tax equity arrangements entered into with third-party investors in order to finance the cost of renewable assets eligible for tax credits. The activities that most significantly impacted the economic performance of these renewable energy facilities were decisions associated with siting, negotiating PPAs and EPC agreements, and decisions associated with ongoing operations and maintenance-related activities. Duke Energy is considered the primary beneficiary and consolidates the entities as it is responsible for all of these decisions.

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Step 13 2021

FINANCIAL STATEMENTS

VARIABLE INTEREST ENTITIES

The table below presents material balances reported on Duke Energy's Consolidated Balance Sheets related to Commercial Renewables VIEs.

(in millions)	December 31,	
	2020	2019
Current Assets: Other	\$ 257	\$ 203
Property, Plant and Equipment: Cost	6,394	5,747
Accumulated depreciation and amortization	(1,242)	(1,041)
Other Noncurrent Assets: Other	67	106
Current maturities of long-term debt	167	162
Long-Term Debt	1,569	1,541
Other Noncurrent Liabilities: AROs	148	127
Other Noncurrent Liabilities: Other	316	228

NON-CONSOLIDATED VIEs

The following tables summarize the impact of non-consolidated VIEs on the Consolidated Balance Sheets.

(in millions)	December 31, 2020					
	Duke Energy			Duke Energy Ohio	Duke Energy Indiana	
	Pipeline Investments	Commercial Renewables	Total			
Receivables from affiliated companies	\$ —	\$ —	\$ —	\$ 83	\$ 110	
Investments in equity method unconsolidated affiliates	—	530	530	—	—	
Other noncurrent assets	31	—	31	—	—	
Total assets	\$ 31	\$ 530	\$ 561	\$ 83	\$ 110	
Other current liabilities	928	5	933	—	—	
Other noncurrent liabilities	8	10	18	—	—	
Total liabilities	\$ 936	\$ 15	\$ 951	\$ —	\$ —	
Net assets (liabilities)	\$ (905)	\$ 515	\$ (390)	\$ 83	\$ 110	

(in millions)	December 31, 2019					
	Duke Energy			Duke Energy Ohio	Duke Energy Indiana	
	Pipeline Investments	Commercial Renewables	Total			
Receivables from affiliated companies	\$ —	\$ (1)	\$ (1)	\$ 64	\$ 77	
Investments in equity method unconsolidated affiliates	1,179	300	1,479	—	—	
Total assets	\$ 1,179	\$ 299	\$ 1,478	\$ 64	\$ 77	
Taxes accrued	(1)	—	(1)	—	—	
Other current liabilities	—	4	4	—	—	
Deferred income taxes	59	—	59	—	—	
Other noncurrent liabilities	—	11	11	—	—	
Total liabilities	\$ 58	\$ 15	\$ 73	\$ —	\$ —	
Net assets	\$ 1,121	\$ 284	\$ 1,405	\$ 64	\$ 77	

The Duke Energy Registrants are not aware of any situations where the maximum exposure to loss significantly exceeds the carrying values shown above except for the PPA with OVEC, which is discussed below, and future exit costs associated with the cancellation of the ACP pipeline, as discussed below.

Pipeline Investments

Duke Energy has investments in various joint ventures to construct and operate pipeline projects. These entities are considered VIEs due to having insufficient equity to finance their own activities without subordinated financial support. Duke Energy does not have the power to direct the activities that most significantly impact the economic performance, the obligation to absorb losses or the right to receive benefits of these VIEs and therefore does not consolidate these entities.

Duke Energy has a 47% ownership interest in ACP. In 2020, Duke Energy determined that it would no longer invest in the construction of the ACP pipeline. The current liability related to the cancellation of the ACP pipeline represents Duke Energy's continuing obligation to fund its share of ACP's obligations. See Notes 3, 7 and 12 for further information regarding this transaction.

FINANCIAL STATEMENTS

VARIABLE INTEREST ENTITIES

Commercial Renewables

Duke Energy has investments in various renewable energy project entities. Some of these entities are VIEs due to Duke Energy issuing guarantees for debt service and operations and maintenance reserves in support of debt financings. Duke Energy does not consolidate these VIEs because power to direct and control key activities is shared jointly by Duke Energy and other owners.

OVEC

Duke Energy Ohio's 9% ownership interest in OVEC is considered a non-consolidated VIE due to OVEC having insufficient equity to finance its activities without subordinated financial support. The activities that most significantly impact OVEC's economic performance include fuel strategy and supply activities and decisions associated with ongoing operations and maintenance-related activities. Duke Energy Ohio does not have the unilateral power to direct these activities, and therefore, does not consolidate OVEC.

As a counterparty to an Inter-Company Power Agreement (ICPA), Duke Energy Ohio has a contractual arrangement to receive entitlements to capacity and energy from OVEC's power plants through June 2040 commensurate with its power participation ratio, which is equivalent to Duke Energy Ohio's ownership interest. Costs, including fuel, operating expenses, fixed costs, debt amortization and interest expense, are allocated to counterparties to the ICPA based on their power participation ratio. The value of the ICPA is subject to variability due to fluctuation in power prices and changes in OVEC's cost of business. On March 31, 2018, FES, a subsidiary of FirstEnergy Corp. and an ICPA counterparty with a power participation ratio of 4.85%, filed for Chapter 11 bankruptcy, which could increase costs allocated to the counterparties. On July 31, 2018, the bankruptcy court rejected the FES ICPA, which means OVEC is an unsecured creditor in the FES bankruptcy proceeding. Duke Energy Ohio cannot predict the impact of the bankruptcy filing on its OVEC interests. In addition, certain proposed environmental rulemaking could result in future increased OVEC cost allocations. In July 2020, legislation was proposed to repeal HB 6. Duke Energy cannot predict the outcome of this matter. See Note 3 for additional information.

CRC

See discussion under Consolidated VIEs for additional information related to CRC.

Amounts included in Receivables from affiliated companies in the above table for Duke Energy Ohio and Duke Energy Indiana reflect their retained interest in receivables sold to CRC. These subordinated notes held by Duke Energy Ohio and Duke Energy Indiana are stated at fair value. Carrying values of retained interests are determined by allocating carrying value of the receivables between assets sold and interests retained based on relative fair value. The allocated bases of the subordinated notes are not materially different than their face value because (i) the receivables generally turnover in less than two months, (ii) credit losses are reasonably predictable due to the broad customer base and lack of significant concentration and (iii) the equity in CRC is subordinate to all retained interests and thus would absorb losses first. The hypothetical effect on fair value of the retained interests assuming both a 10% and a 20% unfavorable variation in credit losses or discount rates is not material due to the short turnover of receivables and historically low credit loss history. Interest accrues to Duke Energy Ohio and Duke Energy Indiana on the retained interests using the acceptable yield method. This method generally approximates the stated rate on the notes since the allocated basis and the face value are nearly equivalent. An impairment charge is recorded against the carrying value of both retained interests and purchased beneficial interest whenever it is determined that an OTTI has occurred.

Key assumptions used in estimating fair value are detailed in the following table.

	Duke Energy Ohio		Duke Energy Indiana	
	2020	2019	2020	2019
Anticipated credit loss ratio	0.5 %	0.6 %	0.3 %	0.3 %
Discount rate	1.6 %	3.3 %	1.6 %	3.3 %
Receivable turnover rate	13.4 %	13.4 %	11.3 %	11.5 %

The following table shows the gross and net receivables sold.

	Duke Energy Ohio		Duke Energy Indiana	
	December 31,		December 31,	
(in millions)	2020	2019	2020	2019
Receivables sold	\$ 270	\$ 253	\$ 344	\$ 307
Less: Retained interests	83	64	110	77
Net receivables sold	\$ 187	\$ 189	\$ 234	\$ 230

FINANCIAL STATEMENTS

VARIABLE INTEREST ENTITIES

The following table shows sales and cash flows related to receivables sold.

(in millions)	Duke Energy Ohio			Duke Energy Indiana		
	Years Ended December 31,			Years Ended December 31,		
	2020	2019	2018	2020	2019	2018
Sales						
Receivables sold	\$ 1,905	\$ 1,979	\$ 1,987	\$ 2,631	\$ 2,837	\$ 2,842
Loss recognized on sale	10	14	13	12	17	16
Cash flows						
Cash proceeds from receivables sold	1,875	1,993	1,967	2,586	2,860	2,815
Collection fees received	1	1	1	1	1	1
Return received on retained interests	4	6	6	5	9	9

Cash flows from sales of receivables are reflected within Cash Flows From Operating Activities and Cash Flows from Investing Activities on Duke Energy Ohio's and Duke Energy Indiana's Consolidated Statements of Cash Flows.

Collection fees received in connection with servicing transferred accounts receivable are included in Operation, maintenance and other on Duke Energy Ohio's and Duke Energy Indiana's Consolidated Statements of Operations and Comprehensive Income. The loss recognized on sales of receivables is calculated monthly by multiplying receivables sold during the month by the required discount. The required discount is derived monthly utilizing a three-year weighted average formula that considers charge-off history, late charge history and turnover history on the sold receivables, as well as a component for the time value of money. The discount rate, or component for the time value of money, is the prior month-end LIBOR plus a fixed rate of 1%.

18. REVENUE

Duke Energy recognizes revenue consistent with amounts billed under tariff offerings or at contractually agreed upon rates based on actual physical delivery of electric or natural gas service, including estimated volumes delivered when billings have not yet occurred. As such, the majority of Duke Energy's revenues have fixed pricing based on the contractual terms of the published tariffs, with variability in expected cash flows attributable to the customer's volumetric demand and ultimate quantities of energy or natural gas supplied and used during the billing period. The stand-alone selling price of related sales are designed to support recovery of prudently incurred costs and an appropriate return on invested assets and are primarily governed by published tariff rates or contractual agreements approved by relevant regulatory bodies. As described in Note 1, certain excise taxes and franchise fees levied by state or local governments are required to be paid even if not collected from the customer. These taxes are recognized on a gross basis as part of revenues. Duke Energy elects to account for all other taxes net of revenues.

Performance obligations are satisfied over time as energy or natural gas is delivered and consumed with billings generally occurring monthly and related payments due within 30 days, depending on regulatory requirements. In no event does the timing between payment and delivery of the goods and services exceed one year. Using this output method for revenue recognition provides a faithful depiction of the transfer of electric and natural gas service as customers obtain control of the commodity and benefit from its use at delivery. Additionally, Duke Energy has an enforceable right to consideration for energy or natural gas delivered at any discrete point in time and will recognize revenue at an amount that reflects the consideration to which Duke Energy is entitled for the energy or natural gas delivered.

As described above, the majority of Duke Energy's tariff revenues are at-will and, as such, related contracts with customers have an expected duration of one year or less and will not have future performance obligations for disclosure. Additionally, other long-term revenue streams, including wholesale contracts, generally provide services that are part of a single performance obligation, the delivery of electricity or natural gas. As such, other than material fixed consideration under long-term contracts, related disclosures for future performance obligations are also not applicable.

Duke Energy earns substantially all of its revenues through its reportable segments, Electric Utilities and Infrastructure, Gas Utilities and Infrastructure and Commercial Renewables.

Electric Utilities and Infrastructure

Electric Utilities and Infrastructure earns the majority of its revenues through retail and wholesale electric service through the generation, transmission, distribution and sale of electricity. Duke Energy generally provides retail and wholesale electric service customers with their full electric load requirements or with supplemental load requirements when the customer has other sources of electricity.

Retail electric service is generally marketed throughout Duke Energy's electric service territory through standard service offers. The standard service offers are through tariffs determined by regulators in Duke Energy's regulated service territory. Each tariff, which is assigned to customers based on customer class, has multiple components such as an energy charge, a demand charge, a basic facilities charge and applicable riders. Duke Energy considers each of these components to be aggregated into a single performance obligation for providing electric service, or in the case of distribution only customers in Duke Energy Ohio, for delivering electricity. Electricity is considered a single performance obligation satisfied over time consistent with the series guidance and is provided and consumed over the billing period, generally one month. Retail electric service is typically provided to at-will customers who can cancel service at any time, without a substantive penalty. Additionally, Duke Energy adheres to applicable regulatory requirements in each jurisdiction to ensure the collectability of amounts billed and appropriate mitigating procedures are followed when necessary. As such, revenue from contracts with customers for such contracts is equivalent to the electricity supplied and billed in that period (including unbilled estimates).

FINANCIAL STATEMENTS

REVENUE

Wholesale electric service is generally provided under long-term contracts using cost-based pricing. FERC regulates costs that may be recovered from customers and the amount of return companies are permitted to earn. Wholesale contracts include both energy and demand charges. For full requirements contracts, Duke Energy considers both charges as a single performance obligation for providing integrated electric service. For contracts where energy and demand charges are considered separate performance obligations, energy and demand are each a distinct performance obligation under the series guidance and are satisfied as energy is delivered and stand-ready service is provided on a monthly basis. This service represents consumption over the billing period and revenue is recognized consistent with billings and unbilled estimates, which generally occur monthly. Contractual amounts owed are typically trued up annually based upon incurred costs in accordance with FERC published filings and the specific customer's actual peak demand. Estimates of variable consideration related to potential additional billings or refunds owed are updated quarterly.

The majority of wholesale revenues are full requirements contracts where the customers purchase the substantial majority of their energy needs and do not have a fixed quantity of contractually required energy or capacity. As such, related forecasted revenues are considered optional purchases. Supplemental requirements contracts that include contracted blocks of energy and capacity at contractually fixed prices have the following estimated remaining performance obligations:

	Remaining Performance Obligations						
(in millions)	2021	2022	2023	2024	2025	Thereafter	Total
Progress Energy	\$ 93	\$ 107	\$ 44	\$ 45	\$ 7	\$ 51	\$ 347
Duke Energy Progress	8	8	8	8	—	—	32
Duke Energy Florida	85	99	36	37	7	51	315
Duke Energy Indiana	5	—	7	12	12	24	60

Revenues for block sales are recognized monthly as energy is delivered and stand-ready service is provided, consistent with invoiced amounts and unbilled estimates.

Gas Utilities and Infrastructure

Gas Utilities and Infrastructure earns its revenue through retail and wholesale natural gas service through the transportation, distribution and sale of natural gas. Duke Energy generally provides retail and wholesale natural gas service customers with all natural gas load requirements. Additionally, while natural gas can be stored, substantially all natural gas provided by Duke Energy is consumed by customers simultaneously with receipt of delivery.

Retail natural gas service is marketed throughout Duke Energy's natural gas service territory using published tariff rates. The tariff rates are established by regulators in Duke Energy's service territories. Each tariff, which is assigned to customers based on customer class, have multiple components, such as a commodity charge, demand charge, customer or monthly charge and transportation costs. Duke Energy considers each of these components to be aggregated into a single performance obligation for providing natural gas service. For contracts where Duke Energy provides all of the customer's natural gas needs, the delivery of natural gas is considered a single performance obligation satisfied over time, and revenue is recognized monthly based on billings and unbilled estimates as service is provided and the commodity is consumed over the billing period. Additionally, natural gas service is typically at-will and customers can cancel service at any time, without a substantive penalty. Duke Energy also adheres to applicable regulatory requirements to ensure the collectability of amounts billed and receivable and appropriate mitigating procedures are followed when necessary.

Certain long-term individually negotiated contracts exist to provide natural gas service. These contracts are regulated and approved by state commissions. The negotiated contracts have multiple components, including a natural gas and a demand charge, similar to retail natural gas contracts. Duke Energy considers each of these components to be a single performance obligation for providing natural gas service. This service represents consumption over the billing period, generally one month.

Fixed capacity payments under long-term contracts for the Gas Utilities and Infrastructure segment include minimum margin contracts and supply arrangements with municipalities and power generation facilities. Revenues for related sales are recognized monthly as natural gas is delivered and stand-ready service is provided, consistent with invoiced amounts and unbilled estimates. Estimated remaining performance obligations are as follows:

	Remaining Performance Obligations						
(in millions)	2021	2022	2023	2024	2025	Thereafter	Total
Piedmont	\$ 65	\$ 64	\$ 61	\$ 59	\$ 58	319	\$ 626

Commercial Renewables

Commercial Renewables earns the majority of its revenues through long-term PPAs and generally sells all of its wind and solar facility output, electricity and RECs to customers. The majority of these PPAs have historically been accounted for as leases. For PPAs that are not accounted for as leases, the delivery of electricity and the delivery of RECs are considered separate performance obligations.

FINANCIAL STATEMENTS

REVENUE

The delivery of electricity is a performance obligation satisfied over time and represents generation and consumption of the electricity over the billing period, generally one month. The delivery of RECs is a performance obligation satisfied at a point in time and represents delivery of each REC generated by the wind or solar facility. The majority of self-generated RECs are bundled with energy in Duke Energy's contracts and, as such, related revenues are recognized as energy is generated and delivered as that pattern is consistent with Duke Energy's performance. Commercial Renewables recognizes revenue based on the energy generated and billed for the period, generally one month, at contractual rates (including unbilled estimates) according to the invoice practical expedient. Amounts are typically due within 30 days of invoice.

Commercial Renewables also earns revenues from installation of distributed solar generation resources, which is primarily composed of EPC projects to deliver functioning solar power systems, generally completed within two to 12 months from commencement of construction. The installation of distributed solar generation resources is a performance obligation that is satisfied over time. Revenue from fixed-price EPC contracts is recognized using the input method as work is performed based on the estimated ratio of incurred costs to estimated total costs.

Other

The remainder of Duke Energy's operations is presented as Other, which does not include material revenues from contracts with customers.

Disaggregated Revenues

For the Electric and Gas Utility and Infrastructure segments, revenue by customer class is most meaningful to Duke Energy as each respective customer class collectively represents unique customer expectations of service, generally has different energy and demand requirements, and operates under tailored, regulatory approved pricing structures. Additionally, each customer class is impacted differently by weather and a variety of economic factors including the level of population growth, economic investment, employment levels, and regulatory activities in each of Duke Energy's jurisdictions. As such, analyzing revenues disaggregated by customer class allows Duke Energy to understand the nature, amount, timing and uncertainty of revenue and cash flows arising from contracts with customers. For the Commercial Renewables segment, the majority of revenues from contracts with customers are from selling all of the unit-contingent output at contractually defined pricing under long-term PPAs with consistent expectations regarding the timing and certainty of cash flows. Disaggregated revenues are presented as follows:

(in millions)	Year Ended December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
By market or type of customer								
<i>Electric Utilities and Infrastructure</i>								
Residential	\$ 9,806	\$ 2,997	\$ 5,017	\$ 2,059	\$ 2,958	\$ 726	\$ 1,064	\$ —
General	6,194	2,233	2,779	1,312	1,467	442	740	—
Industrial	2,859	1,137	901	649	252	137	683	—
Wholesale	1,864	380	1,228	1,034	194	32	224	—
Other revenues	914	281	596	294	302	82	72	—
Total Electric Utilities and Infrastructure revenue from contracts with customers	\$ 21,637	\$ 7,028	\$ 10,521	\$ 5,348	\$ 5,173	\$ 1,419	\$ 2,783	\$ —
<i>Gas Utilities and Infrastructure</i>								
Residential	\$ 930	\$ —	\$ —	\$ —	\$ —	\$ 300	\$ —	\$ 630
Commercial	446	—	—	—	—	117	—	329
Industrial	127	—	—	—	—	17	—	110
Power Generation	—	—	—	—	—	—	—	34
Other revenues	87	—	—	—	—	17	—	70
Total Gas Utilities and Infrastructure revenue from contracts with customers	\$ 1,590	\$ —	\$ —	\$ —	\$ —	\$ 451	\$ —	\$ 1,173
<i>Commercial Renewables</i>								
Revenue from contracts with customers	\$ 227	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
<i>Other</i>								
Revenue from contracts with customers	\$ 26	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Total revenue from contracts with customers	\$ 23,480	\$ 7,028	\$ 10,521	\$ 5,348	\$ 5,173	\$ 1,870	\$ 2,783	\$ 1,173
Other revenue sources ^(a)	\$ 388	\$ (13)	\$ 106	\$ 74	\$ 15	\$ (12)	\$ 12	\$ 124
Total revenues	\$ 23,868	\$ 7,015	\$ 10,627	\$ 5,422	\$ 5,188	\$ 1,858	\$ 2,795	\$ 1,297

FINANCIAL STATEMENTS

REVENUE

- (a) Other revenue sources include revenues from leases, derivatives and alternative revenue programs that are not considered revenues from contracts with customers. Alternative revenue programs in certain jurisdictions include regulatory mechanisms that periodically adjust for over or under collection of related revenues.

(in millions) By market or type of customer	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
<i>Electric Utilities and Infrastructure</i>								
Residential	\$ 9,863	\$ 3,044	\$ 4,998	\$ 2,144	\$ 2,854	\$ 733	\$ 1,087	\$ —
General	6,431	2,244	2,935	1,368	1,567	451	802	—
Industrial	3,071	1,215	934	675	259	147	774	—
Wholesale	2,212	462	1,468	1,281	187	46	235	—
Other revenues	770	276	548	317	231	80	89	—
Total Electric Utilities and Infrastructure revenue from contracts with customers	\$ 22,347	\$ 7,241	\$ 10,883	\$ 5,785	\$ 5,098	\$ 1,457	\$ 2,987	\$ —
<i>Gas Utilities and Infrastructure</i>								
Residential	\$ 976	\$ —	\$ —	\$ —	\$ —	\$ 315	\$ —	\$ 661
Commercial	508	—	—	—	—	130	—	378
Industrial	141	—	—	—	—	19	—	122
Power Generation	—	—	—	—	—	—	—	51
Other revenues	129	—	—	—	—	19	—	110
Total Gas Utilities and Infrastructure revenue from contracts with customers	\$ 1,754	\$ —	\$ —	\$ —	\$ —	\$ 483	\$ —	\$ 1,322
<i>Commercial Renewables</i>								
Revenue from contracts with customers	\$ 223	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
<i>Other</i>								
Revenue from contracts with customers	\$ 24	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Total revenue from contracts with customers	\$ 24,348	\$ 7,241	\$ 10,883	\$ 5,785	\$ 5,098	\$ 1,940	\$ 2,987	\$ 1,322
Other revenue sources ^(a)	\$ 731	\$ 154	\$ 319	\$ 172	\$ 133	\$ —	\$ 17	\$ 59
Total revenues	\$ 25,079	\$ 7,395	\$ 11,202	\$ 5,957	\$ 5,231	\$ 1,940	\$ 3,004	\$ 1,381

- (a) Other revenue sources include revenues from leases, derivatives and alternative revenue programs that are not considered revenues from contracts with customers. Alternative revenue programs in certain jurisdictions include regulatory mechanisms that periodically adjust for over or under collection of related revenues.

FINANCIAL STATEMENTS

REVENUE

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
By market or type of customer								
<i>Electric Utilities and Infrastructure</i>								
Residential	\$ 9,587	\$ 2,981	\$ 4,785	\$ 2,019	\$ 2,766	\$ 743	\$ 1,076	\$ —
General	6,127	2,119	2,809	1,280	1,529	422	778	—
Industrial	2,974	1,180	904	642	262	131	760	—
Wholesale	2,324	508	1,462	1,303	159	57	298	—
Other revenues	717	320	502	320	182	73	91	—
Total Electric Utilities and Infrastructure revenue from contracts with customers	\$ 21,729	\$ 7,108	\$ 10,462	\$ 5,564	\$ 4,898	\$ 1,426	\$ 3,003	\$ —
<i>Gas Utilities and Infrastructure</i>								
Residential	\$ 1,000	\$ —	\$ —	\$ —	\$ —	\$ 331	\$ —	\$ 669
Commercial	514	—	—	—	—	135	—	378
Industrial	147	—	—	—	—	18	—	128
Power Generation	—	—	—	—	—	—	—	54
Other revenues	139	—	—	—	—	19	—	120
Total Gas Utilities and Infrastructure revenue from contracts with customers	\$ 1,800	\$ —	\$ —	\$ —	\$ —	\$ 503	\$ —	\$ 1,349
<i>Commercial Renewables</i>								
Revenue from contracts with customers	\$ 209	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
<i>Other</i>								
Revenue from contracts with customers	\$ 19	\$ —	\$ —	\$ —	\$ —	\$ 1	\$ —	\$ —
Total revenue from contracts with customers	\$ 23,757	\$ 7,108	\$ 10,462	\$ 5,564	\$ 4,898	\$ 1,930	\$ 3,003	\$ 1,349
Other revenue sources ^(a)	\$ 764	\$ 192	\$ 266	\$ 135	\$ 123	\$ 27	\$ 56	\$ 26
Total revenues	\$ 24,521	\$ 7,300	\$ 10,728	\$ 5,699	\$ 5,021	\$ 1,957	\$ 3,059	\$ 1,375

(a) Other revenue sources include revenues from leases, derivatives and alternative revenue programs that are not considered revenues from contracts with customers. Alternative revenue programs in certain jurisdictions include regulatory mechanisms that periodically adjust for over or under collection of related revenues.

As described in Note 1, Duke Energy adopted the new guidance for credit losses effective January 1, 2020, using the modified retrospective method of adoption, which does not require restatement of prior year reported results. The following table presents the reserve for credit losses for trade and other receivables based on adoption of the new standard.

(in millions)	Year Ended December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Balance at December 31, 2019	\$ 76	\$ 10	\$ 16	\$ 8	\$ 7	\$ 4	\$ 3	\$ 6
Cumulative Change in Accounting Principle	5	1	2	1	1	—	—	1
Write-Offs	(58)	(13)	(23)	(8)	(14)	—	—	(6)
Credit Loss Expense	75	13	29	9	20	—	—	11
Other Adjustments	48	12	13	13	—	—	—	—
Balance at December 31, 2020	\$ 146	\$ 23	\$ 37	\$ 23	\$ 14	\$ 4	\$ 3	\$ 12

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FINANCIAL STATEMENTS

REVENUE

Trade and other receivables are evaluated based on an estimate of the risk of loss over the life of the receivable and current and historical conditions using supportable assumptions. Management evaluates the risk of loss for trade and other receivables by comparing the historical write-off amounts to total revenue over a specified period. Historical loss rates are adjusted due to the impact of current conditions, including the impacts of COVID-19, as well as forecasted conditions over a reasonable time period. The calculated write-off rate can be applied to the receivable balance for which an established reserve does not already exist. Management reviews the assumptions and risk of loss periodically for trade and other receivables. Due to the COVID-19 pandemic, as described in Note 1, certain jurisdictions have resumed standard billing and credit practices, disconnections for nonpayment and late payment charges, all of which were previously suspended in the first quarter of 2020. The specific actions taken by each Duke Energy Registrant are described in Note 3 and the impact of COVID-19 on certain receivables financing entities are described in Note 17. The impact of COVID-19 and Duke Energy's related response on customers' ability to pay for service is uncertain, and it is reasonably possible eventual write-offs of customer receivables may increase over current estimates.

The aging of trade receivables is presented in the table below. Duke Energy considers receivables greater than 30 days outstanding past due.

(in millions)	December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unbilled Receivables	\$ 969	\$ 328	\$ 283	\$ 167	\$ 116	\$ 2	\$ 16	\$ 86
0-30 days	1,789	445	707	398	307	60	26	149
30-60 days	185	80	54	25	29	8	3	8
60-90 days	22	1	10	4	6	2	1	3
90+ days	119	16	32	9	23	30	12	9
Deferred Payment Arrangements ^(a)	215	96	80	52	28	—	—	7
Trade and Other Receivables	\$ 3,299	\$ 966	\$ 1,166	\$ 655	\$ 509	\$ 102	\$ 58	\$ 262

- (a) Due to certain customer financial hardships created by the COVID-19 pandemic and resulting stay-at-home orders, Duke Energy permitted customers to defer payment of past-due amounts through an installment payment plan over a period of several months.

IMPACT OF WEATHER AND THE TIMING OF BILLING PERIODS

Revenues and costs are influenced by seasonal weather patterns. Peak sales of electricity occur during the summer and winter months, which results in higher revenue and cash flows during these periods. By contrast, lower sales of electricity occur during the spring and fall, allowing for scheduled plant maintenance. Residential and general service customers are more impacted by weather than industrial customers. Estimated weather impacts are based on actual current period weather compared to normal weather conditions. Normal weather conditions are defined as the long-term average of actual historical weather conditions. Heating degree days measure the variation in weather based on the extent the average daily temperature falls below a base temperature. Cooling degree days measure the variation in weather based on the extent the average daily temperature rises above the base temperature. Each degree of temperature below the base temperature counts as one heating degree day and each degree of temperature above the base temperature counts as one cooling degree day.

The estimated impact of weather on earnings for Electric Utilities and Infrastructure is based on the temperature variances from a normal condition and customers' historic usage patterns. The methodology used to estimate the impact of weather does not consider all variables that may impact customer response to weather conditions, such as humidity in the summer or wind chill in the winter. The precision of this estimate may also be impacted by applying long-term weather trends to shorter-term periods.

Gas Utilities and Infrastructure's costs and revenues are influenced by seasonal patterns due to peak natural gas sales occurring during the winter months as a result of space heating requirements. Residential customers are the most impacted by weather. There are certain regulatory mechanisms for the North Carolina, South Carolina, Tennessee, Ohio and Kentucky service territories that normalize the margins collected from certain customer classes during the winter. In North Carolina, rate design provides protection from both weather and other usage variations such as conservation, while South Carolina, Tennessee and Kentucky revenues are adjusted solely based on weather. Ohio primarily employs a fixed charge each month regardless of the season and usage.

UNBILLED REVENUE

Unbilled revenues are recognized by applying customer billing rates to the estimated volumes of energy or natural gas delivered but not yet billed. Unbilled revenues can vary significantly from period to period as a result of seasonality, weather, customer usage patterns, customer mix, average price in effect for customer classes, timing of rendering customer bills and meter reading schedules, and the impact of weather normalization or margin decoupling mechanisms.

FINANCIAL STATEMENTS

REVENUE

Unbilled revenues are included within Receivables and Receivables of VIEs on the Consolidated Balance Sheets as shown in the following table.

(in millions)	December 31,	
	2020	2019
Duke Energy	\$ 969	\$ 843
Duke Energy Carolinas	328	298
Progress Energy	283	217
Duke Energy Progress	167	122
Duke Energy Florida	116	95
Duke Energy Ohio	2	1
Duke Energy Indiana	16	16
Piedmont	86	78

Additionally, Duke Energy Ohio and Duke Energy Indiana sell, on a revolving basis, nearly all of their retail accounts receivable, including receivables for unbilled revenues, to an affiliate, CRC and account for the transfers of receivables as sales. Accordingly, the receivables sold are not reflected on the Consolidated Balance Sheets of Duke Energy Ohio and Duke Energy Indiana. See Note 17 for further information. These receivables for unbilled revenues are shown in the table below.

(in millions)	December 31,	
	2020	2019
Duke Energy Ohio	\$ 87	\$ 82
Duke Energy Indiana	134	115

19. STOCKHOLDERS' EQUITY

Basic EPS is computed by dividing net income available to Duke Energy common stockholders, as adjusted for distributed and undistributed earnings allocated to participating securities and accumulated preferred dividends, by the weighted average number of common shares outstanding during the period. Diluted EPS is computed by dividing net income available to Duke Energy common stockholders, as adjusted for distributed and undistributed earnings allocated to participating securities and accumulated preferred dividends, by the diluted weighted average number of common shares outstanding during the period. Diluted EPS reflects the potential dilution that could occur if securities or other agreements to issue common stock, such as equity forward sale agreements, were exercised or settled. Duke Energy's participating securities are RSUs that are entitled to dividends declared on Duke Energy common stock during the RSUs vesting periods. Dividends declared on preferred stock are recorded on the Consolidated Statements of Operations as a reduction of net income to arrive at net income available to Duke Energy common stockholders. Dividends accumulated on preferred stock are an adjustment to net income used in the calculation of basic and diluted EPS.

The following table presents Duke Energy's basic and diluted EPS calculations, the weighted average number of common shares outstanding and common and preferred share dividends declared.

(in millions, except per share amounts)	Years Ended December 31,		
	2020	2019	2018
Net Income available to Duke Energy common stockholders	\$ 1,270	\$ 3,707	\$ 2,666
Less: Income (Loss) from discontinued operations	7	(7)	19
Accumulated preferred stock dividends adjustment	1	(15)	—
Less: Impact of participating securities	2	5	5
Income from continuing operations available to Duke Energy common stockholders	\$ 1,262	\$ 3,694	\$ 2,642
Weighted average common shares outstanding – basic	737	729	708
Equity forwards	1	—	—
Weighted average common shares outstanding – diluted	738	729	708
EPS from continuing operations available to Duke Energy common stockholders			
Basic and Diluted	\$ 1.71	\$ 5.07	\$ 3.73
Potentially dilutive items excluded from the calculation ^(a)	2	2	2
Dividends declared per common share	\$ 3.82	\$ 3.75	\$ 3.64
Dividends declared on Series A preferred stock per depositary share	\$ 1.437	\$ 1.03	\$ —
Dividends declared on Series B preferred stock per share	\$ 49.292	\$ —	\$ —

- (a) Performance stock awards were not included in the dilutive securities calculation because the performance measures related to the awards had not been met.

FINANCIAL STATEMENTS

STOCKHOLDERS' EQUITY

Common Stock

In November 2019, Duke Energy filed a prospectus supplement and executed an Equity Distribution Agreement (EDA) under which it may sell up to \$1.5 billion of its common stock through a new ATM offering program, including an equity forward sales component. Under the terms of the EDA, Duke Energy may issue and sell shares of common stock through September 2022.

Separately, in November 2019, Duke Energy marketed an equity offering of 28.75 million shares of common stock through an Underwriting Agreement. In connection with the offering, Duke Energy entered into equity forward sales agreements with an initial forward price of \$85.99 per share. In March 2020, Duke Energy marketed approximately 940,000 shares of common stock through an equity forward transaction under the ATM with an initial forward price of \$89.76 per share. In May 2020, Duke Energy marketed approximately 903,000 shares of common stock through an equity forward transaction under the ATM with an initial forward price of \$82.44 per share. In August 2020, Duke Energy marketed approximately 936,000 shares of common stock through an equity forward transaction under the ATM with an initial forward price of \$79.52 per share.

In December 2020, Duke Energy physically settled the equity forwards by delivering 32 million shares of common stock in exchange for net cash proceeds of approximately \$2.6 billion.

Preferred Stock

On March 29, 2019, Duke Energy completed the issuance of 40 million depositary shares, each representing 1/1,000th share of its Series A Cumulative Redeemable Perpetual Preferred Stock, at a price of \$25 per depositary share. The transaction resulted in net proceeds of \$973 million after issuance costs with proceeds used for general corporate purposes and to reduce short-term debt. The preferred stock has a \$25 liquidation preference per depositary share and earns dividends on a cumulative basis at a rate of 5.75% per annum. Dividends are payable quarterly in arrears on the 16th day of March, June, September and December, and began on June 16, 2019.

The Series A Preferred Stock has no maturity or mandatory redemption date, is not redeemable at the option of the holders and includes separate call options. The first call option allows Duke Energy to call the Series A Preferred Stock at a redemption price of \$25.50 per depositary share prior to June 15, 2024, in whole but not in part, at any time within 120 days after a ratings event where a rating agency amends, clarifies or changes the criteria it uses to assign equity credit for securities such as the preferred stock. The second call option allows Duke Energy to call the preferred stock, in whole or in part, at any time, on or after June 15, 2024, at a redemption price of \$25 per depositary share. Duke Energy is also required to redeem all accumulated and unpaid dividends if either call option is exercised.

On September 12, 2019, Duke Energy completed the issuance of 1 million shares of its Series B Fixed-Rate Reset Cumulative Redeemable Perpetual Preferred Stock, at a price of \$1,000 per share. The transaction resulted in net proceeds of \$989 million after issuance costs with proceeds being used to pay down short-term debt, repay at maturity \$500 million senior notes due September 2019, and for general corporate purposes. The preferred stock has a \$1,000 liquidation preference per share and earns dividends on a cumulative basis at an initial rate of 4.875% per annum. Dividends are payable semiannually in arrears on the 16th day of March and September, and began on March 16, 2020. On September 16, 2024, the First Call Date, and any fifth anniversary of the First Call Date (each a Reset Date), the dividend rate will reset based on the then current five-year U.S. Treasury rate plus a spread of 3.388%.

The Series B Preferred Stock has no maturity or mandatory redemption date, is not redeemable at the option of the holders and includes separate call options. The first call option allows Duke Energy to call the Series B Preferred Stock at a redemption price of \$1,020 per share, in whole but not in part, at any time within 120 days after a ratings event. The second call option allows Duke Energy to call the preferred stock, in whole or in part, on the First Call Date or any subsequent Reset Date at a redemption price in cash equal to \$1,000 per share. Duke Energy is also required to redeem all accumulated and unpaid dividends if either call option is exercised.

Dividends issued on its Series A and Series B Preferred Stock are subject to approval by the Board of Directors. However, the deferral of dividend payments on the preferred stock prohibits the declaration of common stock dividends.

The Series A and Series B Preferred Stock rank, with respect to dividends and distributions upon liquidation or dissolution:

- senior to Common Stock and to each other class or series of capital stock established after the original issue date of the Series A and Series B Preferred Stock that is expressly made subordinated to the Series A and Series B Preferred Stock;
- on a parity with any class or series of capital stock established after the original issue date of the Series A and Series B Preferred Stock that is not expressly made senior or subordinated to the Series A or Series B Preferred Stock;
- junior to any class or series of capital stock established after the original issue date of the Series A and Series B Preferred Stock that is expressly made senior to the Series A or Series B Preferred Stock;
- junior to all existing and future indebtedness (including indebtedness outstanding under Duke Energy's credit facilities, unsecured senior notes, junior subordinated debentures and commercial paper) and other liabilities with respect to assets available to satisfy claims against Duke Energy; and
- structurally subordinated to existing and future indebtedness and other liabilities of Duke Energy's subsidiaries and future preferred stock of subsidiaries.

FINANCIAL STATEMENTS

STOCKHOLDERS' EQUITY

Holders of Series A and Series B Preferred Stock have no voting rights with respect to matters that generally require the approval of voting stockholders. The limited voting rights of holders of Series A and Series B Preferred Stock include the right to vote as a single class, respectively, on certain matters that may affect the preference or special rights of the preferred stock, except in the instance that Duke Energy elects to defer the payment of dividends for a total of six quarterly full dividend periods for Series A Preferred Stock or three semiannual full dividend periods for Series B Preferred Stock. If dividends are deferred for a cumulative total of six quarterly full dividend periods for Series A Preferred Stock or three semiannual full dividend periods for Series B Preferred Stock, whether or not for consecutive dividend periods, holders of the respective preferred stock have the right to elect two additional Board members to the Board of Directors.

20. SEVERANCE

During 2020, as a result of partial settlements between Duke Energy Carolinas, Duke Energy Progress and the Public Staff, Duke Energy Carolinas and Duke Energy Progress deferred as Regulatory assets on the Consolidated Balance Sheets, approximately \$65 million and \$33 million, respectively, of previously recorded severance charges within Operation, maintenance and other on the Consolidated Statements of Operations. These severance charges were previously recorded during 2018, as Duke Energy reviewed its operations and identified opportunities for improvement to better serve its customers. This operational review included the company's workforce strategy and staffing levels to ensure the company was staffed with the right skill sets and number of teammates to execute the long-term vision for Duke Energy. As such, Duke Energy extended voluntary and involuntary severance benefits to certain employees in specific areas as a part of workforce planning and digital transformation efforts. See Note 3 for more information.

The following table presents the direct and allocated severance and related charges accrued for approximately 30 employees in 2020, 140 employees in 2019, and 1,900 employees in 2018, by the Duke Energy Registrants within Operation, maintenance and other on the Consolidated Statements of Operations.

(in millions)	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Year Ended December 31, 2020 ^{(a)(b)}	\$ (85)	\$ (58)	\$ (28)	\$ (31)	\$ 3	\$ —	\$ —	\$ —
Year Ended December 31, 2019	16	8	6	3	3	—	1	1
Year Ended December 31, 2018	187	102	69	52	17	6	7	2

(a) Includes unamortized deferred severance charges of approximately \$(86) million, \$(57) million, \$(29) million and \$(29) million for Duke Energy, Duke Energy Carolinas, Progress Energy and Duke Energy Progress, respectively.

(b) Includes adjustments associated with 2018 severance charges of approximately \$(6) million, \$(2) million, \$(3) million and \$(2) million for Duke Energy, Duke Energy Carolinas, Progress Energy and Duke Energy Progress, respectively.

The table below presents the severance liability for past and ongoing severance plans including the plans described above.

(in millions)	Duke Energy	Duke Energy Carolinas	Duke Energy Progress	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Balance at December 31, 2019	\$ 41	\$ 11	\$ 13	\$ 6	\$ 7	\$ 1	\$ 2	\$ —
Provision/Adjustments	1	—	—	(2)	2	(1)	—	—
Cash Reductions	(31)	(9)	(10)	(3)	(7)	—	(1)	—
Balance at December 31, 2020	\$ 11	\$ 2	\$ 3	\$ 1	\$ 2	\$ —	\$ 1	\$ —

21. STOCK-BASED COMPENSATION

The Duke Energy Corporation 2015 Long-Term Incentive Plan (the 2015 Plan) provides for the grant of stock-based compensation awards to employees and outside directors. The 2015 Plan reserves 10 million shares of common stock for issuance. Duke Energy has historically issued new shares upon exercising or vesting of share-based awards. However, Duke Energy may use a combination of new share issuances and open market repurchases for share-based awards that are exercised or vest in the future. Duke Energy has not determined with certainty the amount of such new share issuances or open market repurchases.

FINANCIAL STATEMENTS

STOCK-BASED COMPENSATION

The following table summarizes the total expense recognized by the Duke Energy Registrants, net of tax, for stock-based compensation.

(in millions)	Years Ended December 31,		
	2020	2019	2018
Duke Energy	\$ 61	\$ 65	\$ 56
Duke Energy Carolinas	22	24	20
Progress Energy	23	24	21
Duke Energy Progress	15	15	13
Duke Energy Florida	9	9	8
Duke Energy Ohio	4	5	4
Duke Energy Indiana	6	6	5
Piedmont	3	3	3

Duke Energy's pretax stock-based compensation costs, the tax benefit associated with stock-based compensation expense and stock-based compensation costs capitalized are included in the following table.

(in millions)	Years Ended December 31,		
	2020	2019	2018
RSU awards	\$ 46	\$ 44	\$ 43
Performance awards	38	45	35
Pretax stock-based compensation cost	\$ 84	\$ 89	\$ 78
Stock-based compensation costs capitalized	5	5	5
Stock-based compensation expense	\$ 79	\$ 84	\$ 73
Tax benefit associated with stock-based compensation expense	\$ 18	\$ 19	\$ 17

RESTRICTED STOCK UNIT AWARDS

RSU awards generally vest over periods from immediate to three years. Fair value amounts are based on the market price of Duke Energy's common stock on the grant date. The following table includes information related to RSU awards.

	Years Ended December 31,		
	2020	2019	2018
Shares granted (in thousands)	498	571	649
Fair value (in millions)	\$ 50	\$ 51	\$ 49

The following table summarizes information about RSU awards outstanding.

	Shares (in thousands)	Weighted Average Grant Date Fair Value (per share)
Outstanding at December 31, 2019	1,010	\$ 83
Granted	498	100
Vested	(532)	82
Forfeited	(37)	92
Outstanding at December 31, 2020	939	93
RSU awards expected to vest	898	93

The total grant date fair value of shares vested during the years ended December 31, 2020, 2019 and 2018, was \$43 million, \$49 million and \$43 million, respectively. At December 31, 2020, Duke Energy had \$31 million of unrecognized compensation cost, which is expected to be recognized over a weighted average period of 23 months.

PERFORMANCE AWARDS

Stock-based performance awards generally vest after three years if performance targets are met. The actual number of shares issued will range from zero to 200% of target shares, depending on the level of performance achieved.

Performance awards contain performance conditions and a market condition. The performance conditions are based on Duke Energy's cumulative adjusted EPS and total incident case rate (total incident case rate is one of our key employee safety metrics). The market condition is based on TSR of Duke Energy relative to a predefined peer group.

FINANCIAL STATEMENTS

STOCK-BASED COMPENSATION

Relative TSR is valued using a path-dependent model that incorporates expected relative TSR into the fair value determination of Duke Energy's performance-based share awards. The model uses three-year historical volatilities and correlations for all companies in the predefined peer group, including Duke Energy, to simulate Duke Energy's relative TSR as of the end of the performance period. For each simulation, Duke Energy's relative TSR associated with the simulated stock price at the end of the performance period plus expected dividends within the period results in a value per share for the award portfolio. The average of these simulations is the expected portfolio value per share. Actual life to date results of Duke Energy's relative TSR for each grant are incorporated within the model. For performance awards granted in 2020, the model used a risk-free interest rate of 1.4%, which reflects the yield on three-year Treasury bonds as of the grant date, and an expected volatility of 13.6% based on Duke Energy's historical volatility over three years using daily stock prices.

The following table includes information related to stock-based performance awards.

	Years Ended December 31,		
	2020	2019	2018
Shares granted assuming target performance (in thousands)	319	320	372
Fair value (in millions)	\$ 34	\$ 27	\$ 27

The following table summarizes information about stock-based performance awards outstanding and assumes payout at the target level.

	Shares (in thousands)	Weighted Average Grant Date Fair Value (per share)
Outstanding at December 31, 2019	1,109	\$ 80
Granted	319	105
Vested	(448)	81
Forfeited	(18)	88
Outstanding at December 31, 2020	962	87
Stock-based performance awards expected to vest	937	87

The total grant date fair value of shares vested during the years ended December 31, 2020, and 2019, was \$36 million and \$23 million, respectively. At December 31, 2020, Duke Energy had \$23 million of unrecognized compensation cost, which is expected to be recognized over a weighted average period of 21 months.

22. EMPLOYEE BENEFIT PLANS

DEFINED BENEFIT RETIREMENT PLANS

Duke Energy and certain subsidiaries maintain, and the Subsidiary Registrants participate in, qualified, non-contributory defined benefit retirement plans. The Duke Energy plans cover most employees using a cash balance formula. Under a cash balance formula, a plan participant accumulates a retirement benefit consisting of pay credits based upon a percentage of current eligible earnings, age or age and years of service and interest credits. Certain employees are eligible for benefits that use a final average earnings formula. Under these final average earnings formulas, a plan participant accumulates a retirement benefit equal to the sum of percentages of their (i) highest three-year, four-year, or five-year average earnings, (ii) highest three-year, four-year, or five-year average earnings in excess of covered compensation per year of participation (maximum of 35 years) or (iii) highest three-year average earnings times years of participation in excess of 35 years. Duke Energy also maintains, and the Subsidiary Registrants participate in, non-qualified, non-contributory defined benefit retirement plans that cover certain executives. The qualified and non-qualified, non-contributory defined benefit plans are closed to new participants.

Duke Energy uses a December 31 measurement date for its defined benefit retirement plan assets and obligations. Actuarial gains experienced by the defined benefit retirement plans in remeasuring plan assets as of December 31, 2020, and 2019, were attributable to actual investment performance that exceeded expected investment performance. Actuarial losses experienced by the defined benefit retirement plans in remeasuring plan obligations as of December 31, 2020, and 2019, were primarily attributable to the decrease in the discount rate used to measure plan obligations.

As a result of the application of settlement accounting due to total lump-sum benefit payments exceeding the settlement threshold (defined as the sum of the service cost and interest cost on projected benefit obligation components of net periodic pension costs) for one of its qualified pension plans, Duke Energy recognized settlement charges of \$94 million, primarily as a regulatory asset within Other Noncurrent Assets on the Consolidated Balance Sheets as of December 31, 2019 (an immaterial amount was recorded in Other income and expenses, net within the Consolidated Statement of Operations).

Settlement charges recognized by the Subsidiary Registrants as of December 31, 2019, which represent amounts allocated by Duke Energy for employees of the Subsidiary Registrants and allocated charges for their proportionate share of settlement charges for employees of Duke Energy's shared services affiliate, were \$53 million for Duke Energy Carolinas, \$26 million for Progress Energy, \$20 million for Duke Energy Progress, \$6 million for Duke Energy Florida, \$4 million for Duke Energy Indiana, \$2 million for Duke Energy Ohio and \$8 million for Piedmont.

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

The settlement charges reflect the recognition of a pro-rata portion of previously unrecognized actuarial losses, equal to the percentage of reduction in the projected benefit obligation resulting from total lump-sum benefit payments as of December 31, 2019. Settlement charges recognized as a regulatory asset within Other Noncurrent Assets on the Consolidated Balance Sheets are amortized over the average remaining service period for participants in the plan. Amortization of settlement charges is disclosed in the tables below as a component of net periodic pension costs.

Net periodic benefit costs disclosed in the tables below represent the cost of the respective benefit plan for the periods presented prior to capitalization of amounts reflected as Net property, plant and equipment, on the Consolidated Balance Sheets. Only the service cost component of net periodic benefit costs is eligible to be capitalized. The remaining non-capitalized portions of net periodic benefit costs are classified as either: (1) service cost, which is recorded in Operations, maintenance and other on the Consolidated Statements of Operations; or as (2) components of non-service cost, which is recorded in Other income and expenses, net, on the Consolidated Statements of Operations. Amounts presented in the tables below for the Subsidiary Registrants represent the amounts of pension and other post-retirement benefit cost allocated by Duke Energy for employees of the Subsidiary Registrants. Additionally, the Consolidated Statements of Operations of the Subsidiary Registrants also include allocated net periodic benefit costs for their proportionate share of pension and post-retirement benefit cost for employees of Duke Energy's shared services affiliate that provide support to the Subsidiary Registrants. However, in the tables below, these amounts are only presented within the Duke Energy column (except for amortization of settlement charges). These allocated amounts are included in the governance and shared service costs discussed in Note 13.

Duke Energy's policy is to fund amounts on an actuarial basis to provide assets sufficient to meet benefit payments to be paid to plan participants. Duke Energy does not anticipate making any contributions in 2021. The following table includes information related to the Duke Energy Registrants' contributions to its qualified defined benefit pension plans.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Contributions Made:								
2020	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
2019	77	7	57	4	53	2	2	1
2018	141	46	45	25	20	—	8	—

QUALIFIED PENSION PLANS

Components of Net Periodic Pension Costs

(in millions)	Year Ended December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 165	\$ 51	\$ 48	\$ 27	\$ 21	\$ 5	\$ 9	\$ 6
Interest cost on projected benefit obligation	269	62	85	38	46	15	22	9
Expected return on plan assets	(572)	(145)	(190)	(87)	(101)	(28)	(42)	(21)
Amortization of actuarial loss	128	28	41	18	23	6	12	9
Amortization of prior service credit	(32)	(8)	(3)	(2)	(1)	—	(2)	(9)
Amortization of settlement charges	18	9	7	6	1	—	1	1
Net periodic pension costs ^{(a)(b)}	\$ (24)	\$ (3)	\$ (12)	\$ —	\$ (11)	\$ (2)	\$ —	\$ (5)

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 158	\$ 49	\$ 46	\$ 26	\$ 20	\$ 4	\$ 9	\$ 5
Interest cost on projected benefit obligation	317	75	100	45	54	18	26	10
Expected return on plan assets	(567)	(147)	(178)	(88)	(89)	(28)	(43)	(22)
Amortization of actuarial loss	108	24	39	15	24	4	8	8
Amortization of prior service credit	(32)	(8)	(3)	(2)	(1)	—	(2)	(9)
Amortization of settlement charges	6	2	1	1	—	2	—	—
Net periodic pension costs ^{(a)(b)}	\$ (10)	\$ (5)	\$ 5	\$ (3)	\$ 8	\$ —	\$ (2)	\$ (8)

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 182	\$ 58	\$ 51	\$ 29	\$ 22	\$ 5	\$ 11	\$ 7
Interest cost on projected benefit obligation	299	72	94	43	50	17	23	11
Expected return on plan assets	(559)	(147)	(178)	(85)	(91)	(28)	(42)	(22)
Amortization of actuarial loss	132	29	44	21	23	5	10	11
Amortization of prior service credit	(32)	(8)	(3)	(2)	(1)	—	(2)	(10)
Net periodic pension costs ^{(a)(b)}	\$ 22	\$ 4	\$ 8	\$ 6	\$ 3	\$ (1)	\$ —	\$ (3)

- (a) Duke Energy amounts exclude \$4 million, \$4 million and \$5 million for the years ended December 2020, 2019 and 2018, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.
- (b) Duke Energy Ohio amounts exclude \$2 million, \$2 million and \$2 million for the years ended December 2020, 2019 and 2018, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.

Amounts Recognized in Accumulated Other Comprehensive Income and Regulatory Assets

(in millions)	Year Ended December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net increase (decrease)	\$ (62)	\$ (39)	\$ (26)	\$ (30)	\$ 4	\$ (2)	\$ 5	\$ (1)
Accumulated other comprehensive loss (income)								
Deferred income tax expense (benefit)	\$ 2	\$ —	\$ 1	\$ —	\$ 1	\$ —	\$ —	\$ —
Amortization of prior year service credit	1	—	—	—	—	—	—	—
Amortization of prior year actuarial losses	(11)	—	(1)	—	(3)	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ (8)	\$ —	\$ —	\$ —	\$ (2)	\$ —	\$ —	\$ —

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net (decrease) increase	\$ (212)	\$ (156)	\$ (79)	\$ (59)	\$ (20)	\$ 12	\$ 22	\$ —
Accumulated other comprehensive (income) loss								
Deferred income tax expense (benefit)	\$ 20	\$ —	\$ 1	\$ —	\$ (1)	\$ —	\$ —	\$ —
Amortization of prior year service credit	1	—	—	—	—	—	—	—
Amortization of prior year actuarial losses	(15)	—	(2)	—	3	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ 6	\$ —	\$ (1)	\$ —	\$ 2	\$ —	\$ —	\$ —

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Reconciliation of Funded Status to Net Amount Recognized

(in millions)	Year Ended December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Obligation at prior measurement date	\$ 8,321	\$ 1,923	\$ 2,608	\$ 1,170	\$ 1,424	\$ 481	\$ 693	\$ 292
Service cost	157	49	46	26	20	4	8	5
Interest cost	269	62	85	38	46	15	22	9
Actuarial loss	433	83	144	50	93	21	46	14
Transfers	—	8	(8)	(8)	—	15	—	—
Benefits paid	(541)	(137)	(160)	(83)	(76)	(34)	(49)	(27)
Benefits paid – settlements	(5)	—	—	—	—	—	(5)	—
Obligation at measurement date	\$ 8,634	\$ 1,988	\$ 2,715	\$ 1,193	\$ 1,507	\$ 502	\$ 715	\$ 293
Accumulated Benefit Obligation at measurement date	\$ 8,577	\$ 1,989	\$ 2,684	\$ 1,194	\$ 1,476	\$ 493	\$ 709	\$ 294
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 8,910	\$ 2,263	\$ 2,898	\$ 1,364	\$ 1,515	\$ 443	\$ 667	\$ 335
Actual return on plan assets	973	247	319	149	166	48	71	35
Benefits paid	(541)	(137)	(160)	(83)	(76)	(34)	(49)	(27)
Benefits paid – settlements	(5)	—	—	—	—	—	(5)	—
Transfers	—	8	(8)	(8)	—	15	—	—
Plan assets at measurement date	\$ 9,337	\$ 2,381	\$ 3,049	\$ 1,422	\$ 1,605	\$ 472	\$ 684	\$ 343
Funded status of plan	\$ 703	\$ 393	\$ 334	\$ 229	\$ 98	\$ (30)	\$ (31)	\$ 50

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Obligation at prior measurement date	\$ 7,869	\$ 1,954	\$ 2,433	\$ 1,125	\$ 1,295	\$ 435	\$ 618	\$ 264
Service cost	150	47	43	25	18	4	8	5
Interest cost	317	75	100	45	54	18	26	10
Actuarial loss	716	101	223	87	135	54	87	33
Transfers	—	11	—	—	—	—	—	—
Benefits paid	(731)	(265)	(191)	(112)	(78)	(30)	(46)	(20)
Obligation at measurement date	\$ 8,321	\$ 1,923	\$ 2,608	\$ 1,170	\$ 1,424	\$ 481	\$ 693	\$ 292
Accumulated Benefit Obligation at measurement date	\$ 8,262	\$ 1,923	\$ 2,578	\$ 1,170	\$ 1,392	\$ 471	\$ 686	\$ 292
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 8,233	\$ 2,168	\$ 2,606	\$ 1,268	\$ 1,322	\$ 405	\$ 611	\$ 305
Employer contributions	77	7	57	4	53	2	2	1
Actual return on plan assets	1,331	342	426	204	218	66	100	49
Benefits paid	(731)	(265)	(191)	(112)	(78)	(30)	(46)	(20)
Transfers	—	11	—	—	—	—	—	—
Plan assets at measurement date	\$ 8,910	\$ 2,263	\$ 2,898	\$ 1,364	\$ 1,515	\$ 443	\$ 667	\$ 335
Funded status of plan	\$ 589	\$ 340	\$ 290	\$ 194	\$ 91	\$ (38)	\$ (26)	\$ 43

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FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Amounts Recognized in the Consolidated Balance Sheets

(in millions)	December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Prefunded pension ^(a)	\$ 780	\$ 393	\$ 379	\$ 229	\$ 143	\$ 58	\$ 79	\$ 50
Noncurrent pension liability ^(b)	\$ 77	\$ —	\$ 45	\$ —	\$ 45	\$ 88	\$ 110	\$ —
Net asset (liability) recognized	\$ 703	\$ 393	\$ 334	\$ 229	\$ 98	\$ (30)	\$ (31)	\$ 50
Regulatory assets	\$ 1,910	\$ 381	\$ 691	\$ 283	\$ 408	\$ 110	\$ 209	\$ 80
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (21)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(2)	—	—	—	—	—	—	—
Net actuarial loss	100	—	2	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 77	\$ —	\$ 2	\$ —	\$ —	\$ —	\$ —	\$ —

(in millions)	December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Prefunded pension ^(a)	\$ 621	\$ 340	\$ 322	\$ 194	\$ 123	\$ 38	\$ 57	\$ 43
Noncurrent pension liability ^(b)	\$ 32	\$ —	\$ 32	\$ —	\$ 32	\$ 76	\$ 83	\$ —
Net asset recognized	\$ 589	\$ 340	\$ 290	\$ 194	\$ 91	\$ (38)	\$ (26)	\$ 43
Regulatory assets	\$ 1,972	\$ 420	\$ 717	\$ 313	\$ 404	\$ 112	\$ 204	\$ 81
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ (23)	\$ —	\$ (1)	\$ —	\$ (1)	\$ —	\$ —	\$ —
Prior service credit	(3)	—	—	—	—	—	—	—
Net actuarial loss	111	—	3	—	3	—	—	—
Net amounts recognized in accumulated other comprehensive loss	\$ 85	\$ —	\$ 2	\$ —	\$ 2	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension costs in the next year								
Unrecognized net actuarial loss	\$ 135	\$ 29	\$ 43	\$ 19	\$ 24	\$ 7	\$ 10	\$ 9
Unrecognized prior service credit	(32)	(8)	(3)	(2)	(1)	(1)	(2)	(9)

(a) Included in Other within Other Noncurrent Assets on the Consolidated Balance Sheets.

(b) Included in Accrued pension and other post-retirement benefit costs on the Consolidated Balance Sheets.

Information for Plans with Accumulated Benefit Obligation in Excess of Plan Assets

(in millions)	December 31, 2020				
	Duke Energy	Progress Energy	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana
Projected benefit obligation	\$ 4,914	\$ 828	\$ 828	\$ 184	\$ 293
Accumulated benefit obligation	4,856	796	796	176	285
Fair value of plan assets	4,837	783	783	96	183

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FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

(in millions)	December 31, 2019	
	Duke Energy Ohio	Duke Energy Indiana
Projected benefit obligation	\$ 155	\$ 260
Accumulated benefit obligation	146	252
Fair value of plan assets	79	177

Assumptions Used for Pension Benefits Accounting

The discount rate used to determine the current year pension obligation and following year's pension expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high-quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

The average remaining service period for participants in active plans and life expectancy of participants in inactive plans is 13 years for Duke Energy, Duke Energy Indiana and Duke Energy Ohio, 14 years for Progress Energy, Duke Energy Progress and Duke Energy Florida, 12 years for Duke Energy Carolinas and nine years for Piedmont.

The following tables present the assumptions or range of assumptions used for pension benefit accounting.

	December 31,		
	2020	2019	2018
Benefit Obligations			
Discount rate	2.60%	3.30%	4.30%
Interest crediting rate	4.00%	4.00%	4.00%
Salary increase	3.50 % – 4.00%	3.50 % – 4.00%	3.50 % – 4.00%
Net Periodic Benefit Cost			
Discount rate	3.30%	4.30%	3.60%
Interest crediting rate	4.00%	4.00%	4.00%
Salary increase	3.50 % – 4.00%	3.50 % – 4.00%	3.50 % – 4.00%
Expected long-term rate of return on plan assets	6.85%	6.85%	6.50%

Expected Benefit Payments

(in millions)	Duke Energy Carolinas		Duke Energy Progress		Duke Energy Florida		Duke Energy Ohio		Duke Energy Indiana		Duke Energy Piedmont	
	Duke Energy	Carolinas	Duke Energy	Progress	Duke Energy	Florida	Duke Energy	Ohio	Duke Energy	Indiana	Duke Energy	Piedmont
Years ending December 31,												
2021	\$ 667	\$ 169	\$ 177	\$ 94	\$ 82	\$ 40	\$ 53	\$ 29				
2022	650	170	176	92	83	39	51	25				
2023	655	174	181	95	85	38	49	22				
2024	644	168	184	96	87	37	49	21				
2025	617	163	181	93	88	35	47	19				
2025-2029	2,745	677	846	399	443	154	217	83				

NON-QUALIFIED PENSION PLANS

The accumulated benefit obligation, which equals the projected benefit obligation for non-qualified pension plans, was \$320 million for Duke Energy, \$13 million for Duke Energy Carolinas, \$111 million for Progress Energy, \$33 million for Duke Energy Progress, \$45 million for Duke Energy Florida, \$4 million for Duke Energy Ohio, \$2 million for Duke Energy Indiana and \$4 million for Piedmont as of December 31, 2020.

Employer contributions, which equal benefits paid for non-qualified pension plans, were \$23 million for Duke Energy, \$2 million for Duke Energy Carolinas, \$8 million for Progress Energy, \$3 million for Duke Energy Progress and \$3 million for Duke Energy Florida for the year ended December 31, 2020. Employer contributions were not material for Duke Energy Ohio, Duke Energy Indiana or Piedmont for the year ended December 31, 2020.

Net periodic pension costs for non-qualified pension plans were not material for the years ended December 31, 2020, 2019 or 2018.

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

OTHER POST-RETIREMENT BENEFIT PLANS

Duke Energy provides, and the Subsidiary Registrants participate in, some health care and life insurance benefits for retired employees on a contributory and non-contributory basis. Employees are eligible for these benefits if they have met age and service requirements at retirement, as defined in the plans. The health care benefits include medical, dental and prescription drug coverage and are subject to certain limitations, such as deductibles and copayments.

Duke Energy did not make any pre-funding contributions to its other post-retirement benefit plans during the years ended December 31, 2020, 2019 or 2018.

Components of Net Periodic Other Post-Retirement Benefit Costs

(in millions)	Year Ended December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 4	\$ 1	\$ 1	\$ —	\$ —	\$ —	\$ 1	\$ —
Interest cost on accumulated post-retirement benefit obligation	23	5	10	5	4	1	2	1
Expected return on plan assets	(13)	(8)	—	—	—	—	—	(2)
Amortization of actuarial loss	2	—	1	—	1	—	4	—
Amortization of prior service credit	(14)	(4)	(3)	(1)	(2)	(1)	(1)	(2)
Net periodic post-retirement benefit costs ^{(a)(b)}	\$ 2	\$ (6)	\$ 9	\$ 4	\$ 3	\$ —	\$ 6	\$ (3)

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 4	\$ 1	\$ 1	\$ —	\$ 1	\$ —	\$ 1	\$ —
Interest cost on accumulated post-retirement benefit obligation	30	7	12	7	5	1	3	1
Expected return on plan assets	(12)	(7)	—	—	—	—	—	(1)
Amortization of actuarial loss	4	2	1	—	1	—	4	—
Amortization of prior service credit	(19)	(5)	(8)	(1)	(7)	(1)	(1)	(2)
Net periodic post-retirement benefit costs ^{(a)(b)}	\$ 7	\$ (2)	\$ 6	\$ 6	\$ —	\$ —	\$ 7	\$ (2)

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Service cost	\$ 6	\$ 1	\$ 1	\$ —	\$ 1	\$ 1	\$ 1	\$ 1
Interest cost on accumulated post-retirement benefit obligation	28	7	12	6	6	1	3	1
Expected return on plan assets	(13)	(8)	—	—	—	—	—	(2)
Amortization of actuarial loss	6	3	1	1	—	—	4	—
Amortization of prior service credit	(19)	(5)	(8)	(1)	(7)	(1)	(1)	(2)
Net periodic post-retirement benefit costs ^{(a)(b)}	\$ 8	\$ (2)	\$ 6	\$ 6	\$ —	\$ 1	\$ 7	\$ (2)

- (a) Duke Energy amounts exclude \$6 million, \$6 million and \$7 million for the years ended December 2020, 2019 and 2018, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.
- (b) Duke Energy Ohio amounts exclude \$1 million, \$2 million and \$2 million for the years ended December 2020, 2019 and 2018, respectively, of regulatory asset amortization resulting from purchase accounting adjustments associated with Duke Energy's merger with Cinergy in April 2006.

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Amounts Recognized in Accumulated Other Comprehensive Income and Regulatory Assets and Liabilities

(in millions)	Year Ended December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net increase (decrease)	\$ 9	\$ —	\$ 9	\$ 6	\$ 3	\$ —	\$ (4)	\$ —
Regulatory liabilities, net increase (decrease)	\$ (10)	\$ (7)	\$ —	\$ —	\$ —	\$ —	\$ (1)	\$ —
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amortization of prior year service credit	1	—	—	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ 1	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Regulatory assets, net increase (decrease)	\$ (127)	\$ —	\$ (127)	\$ (82)	\$ (45)	\$ —	\$ (5)	\$ —
Regulatory liabilities, net increase (decrease)	\$ (152)	\$ 1	\$ (149)	\$ (93)	\$ (56)	\$ (1)	\$ (4)	\$ 3
Accumulated other comprehensive (income) loss								
Deferred income tax benefit	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amortization of prior year actuarial gain	(4)	—	—	—	—	—	—	—
Net amount recognized in accumulated other comprehensive income	\$ (4)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

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FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Reconciliation of Funded Status to Accrued Other Post-Retirement Benefit Costs

(in millions)	Year Ended December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Accumulated post-retirement benefit obligation at prior measurement date	\$ 723	\$ 175	\$ 303	\$ 168	\$ 135	\$ 29	\$ 64	\$ 30
Service cost	4	1	1	—	—	—	1	—
Interest cost	23	5	10	5	4	1	2	1
Plan participants' contributions	15	3	5	3	2	1	2	—
Actuarial losses	19	8	8	5	2	—	1	1
Benefits paid	(75)	(18)	(28)	(15)	(13)	(4)	(9)	(2)
Accumulated post-retirement benefit obligation at measurement date	\$ 709	\$ 174	\$ 299	\$ 166	\$ 130	\$ 27	\$ 61	\$ 30
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 220	\$ 130	\$ (1)	\$ (1)	\$ —	\$ 9	\$ 5	\$ 34
Actual return on plan assets	24	14	—	—	—	—	1	4
Benefits paid	(75)	(18)	(28)	(15)	(13)	(4)	(9)	(2)
Employer contributions	53	10	23	11	10	3	8	1
Plan participants' contributions	15	3	5	3	2	1	2	—
Plan assets at measurement date	\$ 237	\$ 139	\$ (1)	\$ (2)	\$ (1)	\$ 9	\$ 7	\$ 37
Funded status of plan	\$ (472)	\$ (35)	\$ (300)	\$ (168)	\$ (131)	\$ (18)	\$ (54)	\$ 7

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Change in Projected Benefit Obligation								
Accumulated post-retirement benefit obligation at prior measurement date	\$ 728	\$ 174	\$ 303	\$ 166	\$ 137	\$ 29	\$ 67	\$ 30
Service cost	4	1	1	—	1	—	1	—
Interest cost	30	7	12	7	5	1	3	1
Plan participants' contributions	16	3	6	3	2	1	2	—
Actuarial losses	28	9	13	9	5	1	2	—
Benefits paid	(83)	(19)	(32)	(17)	(15)	(3)	(11)	(1)
Accumulated post-retirement benefit obligation at measurement date	\$ 723	\$ 175	\$ 303	\$ 168	\$ 135	\$ 29	\$ 64	\$ 30
Change in Fair Value of Plan Assets								
Plan assets at prior measurement date	\$ 195	\$ 115	\$ —	\$ —	\$ —	\$ 8	\$ 5	\$ 29
Actual return on plan assets	32	20	(1)	—	—	1	—	6
Benefits paid	(83)	(19)	(32)	(17)	(15)	(3)	(11)	(1)
Employer contributions	60	11	26	13	13	2	9	—
Plan participants' contributions	16	3	6	3	2	1	2	—
Plan assets at measurement date	\$ 220	\$ 130	\$ (1)	\$ (1)	\$ —	\$ 9	\$ 5	\$ 34
Funded status of plan	\$ (503)	\$ (45)	\$ (304)	\$ (169)	\$ (135)	\$ (20)	\$ (59)	\$ 4

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Amounts Recognized in the Consolidated Balance Sheets

(in millions)	December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Prefunded post-retirement benefit	\$ 8	\$ —	\$ —	\$ —	\$ —	\$ 1	\$ —	\$ 7
Current post-retirement liability ^(a)	9	—	6	4	2	2	—	—
Noncurrent post-retirement liability ^(b)	471	35	294	164	129	17	54	—
Net liability (asset) recognized	\$ 472	\$ 35	\$ 300	\$ 168	\$ 131	\$ 18	\$ 54	\$ (7)
Regulatory assets	\$ 144	\$ —	\$ 144	\$ 88	\$ 56	\$ —	\$ 32	\$ —
Regulatory liabilities	\$ 139	\$ 32	\$ —	\$ —	\$ —	\$ 17	\$ 62	\$ 3
Accumulated other comprehensive (income) loss								
Deferred income tax expense	\$ 3	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(1)	—	—	—	—	—	—	—
Net actuarial gain	(13)	—	—	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive income	\$ (11)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —

(in millions)	December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current post-retirement liability ^(a)	\$ 9	\$ —	\$ 5	\$ 3	\$ 2	\$ 1	\$ —	\$ —
Noncurrent post-retirement liability ^(b)	494	45	299	163	133	19	59	(4)
Total accrued post-retirement liability	\$ 503	\$ 45	\$ 304	\$ 166	\$ 135	\$ 20	\$ 59	\$ (4)
Regulatory assets	\$ 135	\$ —	\$ 135	\$ 82	\$ 53	\$ —	\$ 36	\$ —
Regulatory liabilities	\$ 149	\$ 39	\$ —	\$ —	\$ —	\$ 17	\$ 63	\$ 3
Accumulated other comprehensive (income) loss								
Deferred income tax expense	\$ 3	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Prior service credit	(2)	—	—	—	—	—	—	—
Net actuarial gain	(13)	—	—	—	—	—	—	—
Net amounts recognized in accumulated other comprehensive income	\$ (12)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amounts to be recognized in net periodic pension expense in the next year								
Unrecognized net actuarial loss	\$ 5	\$ 3	\$ 1	\$ —	\$ 1	\$ —	\$ —	\$ —
Unrecognized prior service credit	(14)	(4)	(3)	(1)	(2)	(1)	(1)	(2)

- (a) Included in Other within Current Liabilities on the Consolidated Balance Sheets.
(b) Included in Accrued pension and other post-retirement benefit costs on the Consolidated Balance Sheets.

Assumptions Used for Other Post-Retirement Benefits Accounting

The discount rate used to determine the current year other post-retirement benefits obligation and following year's other post-retirement benefits expense is based on a bond selection-settlement portfolio approach. This approach develops a discount rate by selecting a portfolio of high-quality corporate bonds that generate sufficient cash flow to provide for projected benefit payments of the plan. The selected bond portfolio is derived from a universe of non-callable corporate bonds rated Aa quality or higher. After the bond portfolio is selected, a single interest rate is determined that equates the present value of the plan's projected benefit payments discounted at this rate with the market value of the bonds selected.

The average remaining service period of active covered employees is eight years for Duke Energy, seven years for Progress Energy, Duke Energy Florida and Duke Energy Ohio and six years for Duke Energy Carolinas, Duke Energy Progress, Duke Energy Indiana and Piedmont.

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

The following tables present the assumptions used for other post-retirement benefits accounting.

	December 31,		
	2020	2019	2018
Benefit Obligations			
Discount rate	2.60 %	3.30 %	4.30 %
Net Periodic Benefit Cost			
Discount rate	3.30 %	4.30 %	3.60 %
Expected long-term rate of return on plan assets	6.85 %	6.85 %	6.50 %
Assumed tax rate	23 %	23 %	35 %

Assumed Health Care Cost Trend Rate

	December 31,	
	2020	2019
Health care cost trend rate assumed for next year	6.25 %	6.00 %
Rate to which the cost trend is assumed to decline (the ultimate trend rate)	4.75 %	4.75 %
Year that rate reaches ultimate trend	2028	2026

Expected Benefit Payments

	Duke Energy		Duke Progress Energy		Duke Energy Florida		Duke Energy Ohio		Duke Energy Indiana		Piedmont
(in millions)	Duke Energy	Carolinas	Energy	Progress	Florida		Ohio		Indiana		
Years ending December 31,											
2021	\$ 73	\$ 17	\$ 28	\$ 15	\$ 12	\$ 3	\$ 8	\$ 2			
2022	66	16	26	14	12	3	7	2			
2023	62	15	25	14	11	3	6	2			
2024	58	14	24	13	11	2	6	2			
2025	54	13	22	12	10	2	5	2			
2026-2030	223	54	94	52	41	9	21	11			

PLAN ASSETS

Description and Allocations

Duke Energy Master Retirement Trust

Assets for both the qualified pension and other post-retirement benefits are maintained in the Duke Energy Master Retirement Trust. Approximately 98% of the Duke Energy Master Retirement Trust assets were allocated to qualified pension plans and approximately 2% were allocated to other post-retirement plans (comprised of 401(h) accounts), as of December 31, 2020, and 2019. The investment objective of the Duke Energy Master Retirement Trust is to invest in a diverse portfolio of assets that is expected to generate positive surplus return over time (i.e., asset growth greater than liability growth) subject to a prudent level of portfolio risk, for the purpose of enhancing the security of benefits for plan participants.

As of December 31, 2020, Duke Energy assumes pension and other post-retirement plan assets will generate a long-term rate of return of 6.5%. The expected long-term rate of return was developed using a weighted average calculation of expected returns based primarily on future expected returns across asset classes considering the use of active asset managers, where applicable. The asset allocation targets were set after considering the investment objective and the risk profile. Equity securities are held for their higher expected returns. Debt securities are primarily held to hedge the qualified pension plan. Return seeking debt securities, hedge funds and other global securities are held for diversification. Investments within asset classes are diversified to achieve broad market participation and reduce the impact of individual managers or investments.

Effective January 1, 2020, the target asset allocation for the Duke Energy Retirement Master Trust is 58% liability hedging assets and 42% return-seeking assets. Duke Energy periodically reviews its asset allocation targets, and over time, as the funded status of the benefit plans increase, the level of asset risk relative to plan liabilities may be reduced to better manage Duke Energy's benefit plan liabilities and reduce funded status volatility.

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

The Duke Energy Master Retirement Trust is authorized to engage in the lending of certain plan assets. Securities lending is an investment management enhancement that utilizes certain existing securities of the Duke Energy Master Retirement Trust to earn additional income. Securities lending involves the loaning of securities to approved parties. In return for the loaned securities, the Duke Energy Master Retirement Trust receives collateral in the form of cash and securities as a safeguard against possible default of any borrower on the return of the loan under terms that permit the Duke Energy Master Retirement Trust to sell the securities. The Duke Energy Master Retirement Trust mitigates credit risk associated with securities lending arrangements by monitoring the fair value of the securities loaned, with additional collateral obtained or refunded as necessary. The fair value of securities on loan was approximately \$482 million and \$351 million at December 31, 2020, and 2019, respectively. Cash and securities obtained as collateral exceeded the fair value of the securities loaned at December 31, 2020, and 2019, respectively. Securities lending income earned by the Duke Energy Master Retirement Trust was immaterial for the years ended December 31, 2020, 2019 and 2018, respectively.

Qualified pension and other post-retirement benefits for the Subsidiary Registrants are derived from the Duke Energy Master Retirement Trust, as such, each are allocated their proportionate share of the assets discussed below.

The following table includes the target asset allocations by asset class at December 31, 2020, and the actual asset allocations for the Duke Energy Master Retirement Trust.

	Target Allocation	Actual Allocation at December 31,	
		2020	2019
Global equity securities	28 %	30 %	27 %
Global private equity securities	1 %	1 %	1 %
Debt securities	58 %	55 %	57 %
Return seeking debt securities	4 %	5 %	5 %
Hedge funds	3 %	3 %	3 %
Real estate and cash	6 %	6 %	7 %
Total	100 %	100 %	100 %

Other post-retirement assets

Duke Energy's other post-retirement assets are comprised of Voluntary Employees' Beneficiary Association (VEBA) trusts and 401(h) accounts held within the Duke Energy Master Retirement Trust. Duke Energy's investment objective is to achieve sufficient returns, subject to a prudent level of portfolio risk, for the purpose of promoting the security of plan benefits for participants.

The following table presents target and actual asset allocations for the VEBA trusts at December 31, 2020.

	Target Allocation	Actual Allocation at December 31,	
		2020	2019
U.S. equity securities	30 %	36 %	35 %
Non-U.S. equity securities	6 %	6 %	9 %
Real estate	2 %	2 %	2 %
Debt securities	45 %	42 %	37 %
Cash	17 %	14 %	17 %
Total	100 %	100 %	100 %

Fair Value Measurements

Duke Energy classifies recurring and non-recurring fair value measurements based on the fair value hierarchy as discussed in Note 16.

Valuation methods of the primary fair value measurements disclosed below are as follows:

Investments in equity securities

Investments in equity securities are typically valued at the closing price in the principal active market as of the last business day of the reporting period. Principal active markets for equity prices include published exchanges such as NASDAQ and NYSE. Foreign equity prices are translated from their trading currency using the currency exchange rate in effect at the close of the principal active market. Prices have not been adjusted to reflect after-hours market activity. The majority of investments in equity securities are valued using Level 1 measurements. When the price of an institutional commingled fund is unpublished, it is not categorized in the fair value hierarchy, even though the funds are readily available at the fair value.

Investments in corporate debt securities and U.S. government securities

Most debt investments are valued based on a calculation using interest rate curves and credit spreads applied to the terms of the debt instrument (maturity and coupon interest rate) and consider the counterparty credit rating. Most debt valuations are Level 2 measurements. If the market for a particular fixed-income security is relatively inactive or illiquid, the measurement is Level 3. U.S. Treasury debt is typically Level 2.

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

Investments in short-term investment funds

Investments in short-term investment funds are valued at the net asset value of units held at year end and are readily redeemable at the measurement date. Investments in short-term investment funds with published prices are valued as Level 1. Investments in short-term investment funds with unpublished prices are valued as Level 2.

Duke Energy Master Retirement Trust

The following tables provide the fair value measurement amounts for the Duke Energy Master Retirement Trust qualified pension and other post-retirement assets.

	December 31, 2020					
	Total Fair				Not	
(in millions)	Value	Level 1	Level 2	Level 3	Categorized ^(b)	
Equity securities	\$ 3,202	\$ 3,162	\$ —	\$ —	\$ 40	
Corporate debt securities	4,162	—	4,162	—	—	
Short-term investment funds	397	247	150	—	—	
Partnership interests	97	—	—	—	97	
Hedge funds	198	—	—	—	198	
U.S. government securities	1,164	—	1,164	—	—	
Governments bonds – foreign	73	—	73	—	—	
Cash	98	98	—	—	—	
Net pending transactions and other investments	88	34	54	—	—	
Total assets ^(a)	\$ 9,479	\$ 3,541	\$ 5,603	\$ —	\$ 335	

- (a) Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont were allocated approximately 26%, 32%, 15%, 17%, 5%, 7% and 4%, respectively, of the Duke Energy Master Retirement Trust at December 31, 2020. Accordingly, all amounts included in the table above are allocable to the Subsidiary Registrants using these percentages.
- (b) Certain investments that are measured at fair value using the net asset value per share practical expedient have not been categorized in the fair value hierarchy.

	December 31, 2019					
	Total Fair				Not	
(in millions)	Value	Level 1	Level 2	Level 3	Categorized ^(b)	
Equity securities	\$ 2,730	\$ 2,712	\$ —	\$ —	\$ 18	
Corporate debt securities	3,999	—	3,999	—	—	
Short-term investment funds	545	455	90	—	—	
Partnership interests	104	—	—	—	104	
Hedge funds	206	—	—	—	206	
U.S. government securities	1,231	—	1,231	—	—	
Guaranteed investment contracts	11	—	—	11	—	
Governments bonds – foreign	78	—	78	—	—	
Cash	75	75	—	—	—	
Net pending transactions and other investments	46	(43)	89	—	—	
Total assets ^(a)	\$ 9,025	\$ 3,199	\$ 5,487	\$ 11	\$ 328	

- (a) Duke Energy Carolinas, Progress Energy, Duke Energy Progress, Duke Energy Florida, Duke Energy Ohio, Duke Energy Indiana and Piedmont were allocated approximately 26%, 31%, 15%, 17%, 5%, 7% and 4%, respectively, of the Duke Energy Master Retirement Trust at December 31, 2019. Accordingly, all amounts included in the table above are allocable to the Subsidiary Registrants using these percentages.
- (b) Certain investments that are measured at fair value using the net asset value per share practical expedient have not been categorized in the fair value hierarchy.

FINANCIAL STATEMENTS

EMPLOYEE BENEFIT PLANS

The following table provides a reconciliation of beginning and ending balances of Duke Energy Master Retirement Trust qualified pension and other post-retirement assets at fair value on a recurring basis where the determination of fair value includes significant unobservable inputs (Level 3).

(in millions)	2020	2019
Balance at January 1	\$ 11	\$ 27
Sales	(12)	(18)
Total gains and other, net	1	2
Transfer of Level 3 assets to other classifications	—	—
Balance at December 31	\$ —	\$ 11

Other post-retirement assets

The following tables provide the fair value measurement amounts for VEBA trust assets.

(in millions)	December 31, 2020	
	Total Fair Value	Level 2
Cash and cash equivalents	\$ 5	\$ 5
Real estate	1	1
Equity securities	23	23
Debt securities	19	19
Total assets	\$ 48	\$ 48

(in millions)	December 31, 2019	
	Total Fair Value	Level 2
Cash and cash equivalents	\$ 9	\$ 9
Real estate	1	1
Equity securities	22	22
Debt securities	18	18
Total assets	\$ 50	\$ 50

EMPLOYEE SAVINGS PLANS

Retirement Savings Plan

Duke Energy or its affiliates sponsor, and the Subsidiary Registrants participate in, employee savings plans that cover substantially all U.S. employees. Most employees participate in a matching contribution formula where Duke Energy provides a matching contribution generally equal to 100% of employee before-tax and Roth 401(k) contributions of up to 6% of eligible pay per pay period. Dividends on Duke Energy shares held by the savings plans are charged to retained earnings when declared and shares held in the plans are considered outstanding in the calculation of basic and diluted EPS.

For new and rehired employees who are not eligible to participate in Duke Energy's defined benefit plans, an additional employer contribution of 4% of eligible pay per pay period, which is subject to a three-year vesting schedule, is provided to the employee's savings plan account. Certain Piedmont employees whose participation in a prior Piedmont defined benefit plan (that was frozen as of December 31, 2017) are eligible for employer transition credit contributions of 3% to 5% of eligible pay per period, for each pay period during the three-year period ending December 31, 2020.

The following table includes pretax employer matching contributions made by Duke Energy and expensed by the Subsidiary Registrants.

(in millions)	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Years ended December 31,								
2020	\$ 213	\$ 67	\$ 57	\$ 38	\$ 19	\$ 5	\$ 11	\$ 13
2019	214	66	58	38	20	5	11	13
2018	213	68	58	40	19	4	10	12

FINANCIAL STATEMENTS

INCOME TAXES

23. INCOME TAXES

Consolidated Appropriations Act

On December 27, 2020, President Trump signed the Consolidated Appropriations Act (CAA) into law. In addition to the CAA providing funding for government operations, it also provided tax provisions to assist with COVID-19 relief, including extending certain expiring tax provisions. The Company has reviewed the provisions of the CAA and has determined that there is no material impact on the 2020 financial statements as a result of the CAA being signed into law.

CARES Act

On March 27, 2020, the CARES Act was enacted. The CARES Act is an emergency economic stimulus package in response to the COVID-19 pandemic. Among other provisions, the CARES Act accelerates the remaining AMT credit refund allowances resulting in taxpayers being able to immediately claim a refund in full for any AMT credit carryforwards and deferral of certain 2020 payroll taxes. In the third quarter of 2020, Duke Energy received \$572 million related to these AMT credit carryforwards and \$19 million of interest income. In addition, the Company has deferred approximately \$117 million of payroll taxes, with 50% payable by December 31, 2021, and the remaining 50% payable by December 31, 2022. The other provisions within the CARES Act do not materially impact Duke Energy's income tax accounting. See Note 1 for information on COVID-19.

Tax Act

On December 22, 2017, President Trump signed the Tax Act into law. Among other provisions, the Tax Act lowered the corporate federal income tax rate from 35% to 21%, limits interest deductions outside of regulated utility operations, requires the normalization of excess deferred taxes associated with property under the average rate assumption method as a prerequisite to qualifying for accelerated depreciation and repealed the federal manufacturing deduction. The Tax Act also repealed the corporate AMT and stipulates a refund of 50% of remaining AMT credit carryforwards (to the extent the credits exceed regular tax for the year) for tax years 2018, 2019, and 2020, with all remaining AMT credits to be refunded in tax year 2021.

On December 22, 2017, the SEC staff issued Staff Accounting Bulletin (SAB) 118, Income Tax Accounting Implications of the Tax Cuts and Jobs Act, which provides guidance on accounting for the Tax Act's impact. SAB 118 provides a measurement period, which in no case should extend beyond one year from the Tax Act enactment date, during which a company acting in good faith may complete the accounting for the impacts of the Tax Act under ASC Topic 740. In accordance with SAB 118, a company must reflect the income tax effects of the Tax Act in the reporting period in which the accounting under ASC Topic 740 is complete. To the extent that a company's accounting for certain income tax effects of the Tax Act is incomplete, a company can determine a reasonable estimate for those effects and record a provisional estimate in the financial statements in the first reporting period in which a reasonable estimate can be determined.

As of December 31, 2018, the accounting for the effects of the Tax Act was complete. During the year ended December 31, 2018, Duke Energy recorded the following measurement period adjustments in accordance with SAB 118:

- Additional tax expense of \$23 million related to the completion of the analysis of Duke Energy's existing regulatory liability related to deferred taxes;
- A \$10 million tax benefit for the remeasurement of deferred tax assets and deferred tax liabilities primarily related to the guidance on bonus depreciation issued by the IRS in August 2018, affecting the computation of the Company's 2017 Federal income tax liability;
- Additional tax expense of \$7 million related to the portion of the deferred tax asset as of December 31, 2017, that represents nondeductible long-term incentives under the Tax Act's limitation on the deductibility of executive compensation; and
- During the fourth quarter of 2018, the Company released the \$76 million valuation allowance that it recorded in the first quarter of 2018 as a result of additional guidance published by the IRS that stated refundable AMT credits would not be subject to sequestration.
- The majority of Duke Energy's operations are regulated and it is expected that the Subsidiary Registrants will ultimately pass on the savings associated with the amount representing the remeasurement of deferred tax balances related to regulated operations to customers. For Duke Energy's regulated operations, where the reduction is expected to be returned to customers in future rates, the remeasurement has been deferred as a regulatory liability. During 2018, Duke Energy recorded an additional regulatory liability of \$83 million, representing the revaluation of those deferred tax balances. The Subsidiary Registrants continue to respond to requests from regulators in various jurisdictions to determine the timing and magnitude of savings they will pass on to customers.

In addition, during 2018, Duke Energy reclassified \$573 million of AMT credit carryforwards from noncurrent deferred tax liabilities to a current federal income tax receivable. In 2019, Duke Energy received a refund of \$573 million related to AMT credit carryforwards based on the filing of Duke Energy's 2018 income tax return in 2019 and reclassified \$286 million of AMT credits from noncurrent deferred tax liabilities to a current federal income tax receivable.

FINANCIAL STATEMENTS

INCOME TAXES

Income Tax Expense

Components of Income Tax Expense

(in millions)	Year Ended December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current income taxes								
Federal	\$ (281)	\$ 314	\$ 280	\$ 181	\$ 148	\$ 10	\$ 48	\$ (27)
State	(9)	35	29	17	24	1	7	(8)
Foreign	1	—	—	—	—	—	—	—
Total current income taxes	(289)	349	309	198	172	11	55	(35)
Deferred income taxes								
Federal	155	(171)	(167)	(180)	1	30	12	60
State	(92)	(86)	(24)	(49)	25	2	17	(7)
Total deferred income taxes ^(a)	63	(257)	(191)	(229)	26	32	29	53
ITC amortization	(10)	(4)	(5)	(5)	—	—	—	—
Income tax (benefit) expense from continuing operations	(236)	88	113	(36)	198	43	84	18
Tax expense from discontinued operations	2	—	—	—	—	—	—	—
Total income tax (benefit) expense included in Consolidated Statements of Operations	\$ (234)	\$ 88	\$ 113	\$ (36)	\$ 198	\$ 43	\$ 84	\$ 18

- (a) Total deferred income taxes includes the generation of NOL carryforwards and tax credit carryforwards of \$20 million at Duke Energy Carolinas, \$3 million at Duke Energy Progress, \$8 million at Duke Energy Indiana, and \$11 million at Piedmont. In addition, total deferred income taxes includes utilization of NOL carryforwards and tax credit carryforwards of \$39 million at Progress Energy, \$30 million at Duke Energy Florida and \$79 million at Duke Energy.

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Current income taxes								
Federal	\$ (299)	\$ 164	\$ (173)	\$ (36)	\$ (43)	\$ (41)	\$ (23)	\$ (92)
State	10	13	(7)	(3)	18	(1)	1	(1)
Foreign	2	—	—	—	—	—	—	—
Total current income taxes	(287)	177	(180)	(39)	(25)	(42)	(22)	(93)
Deferred income taxes								
Federal	855	175	422	220	153	77	128	133
State	(38)	(37)	17	(18)	27	5	28	3
Total deferred income taxes ^(a)	817	138	439	202	180	82	156	136
ITC amortization	(11)	(4)	(6)	(6)	—	—	—	—
Income tax expense from continuing operations	519	311	253	157	155	40	134	43
Tax benefit from discontinued operations	(2)	—	—	—	—	—	—	—
Total income tax expense included in Consolidated Statements of Operations	\$ 517	\$ 311	\$ 253	\$ 157	\$ 155	\$ 40	\$ 134	\$ 43

- (a) Total deferred income taxes includes the generation of tax credit carryforwards of \$8 million at Duke Energy Carolinas. In addition, total deferred income taxes includes utilization of NOL carryforwards and tax credit carryforwards of \$243 million at Progress Energy, \$35 million at Duke Energy Progress, \$152 million at Duke Energy Florida, \$25 million at Duke Energy Ohio, \$60 million at Duke Energy Indiana, \$90 million at Piedmont and \$775 million at Duke Energy.

FINANCIAL STATEMENTS

INCOME TAXES

(in millions)	Year Ended December 31, 2018							
	Duke Energy Carolinas		Duke Energy Progress		Duke Energy Florida		Duke Energy Ohio	
	Duke Energy	Carolinas	Progress	Energy	Florida	Ohio	Indiana	Piedmont
Current income taxes								
Federal	\$ (647)	\$ (8)	\$ (135)	\$ (71)	\$ (49)	\$ 20	\$ 29	\$ 67
State	(11)	6	(5)	(5)	(10)	(1)	3	1
Foreign	3	—	—	—	—	—	—	—
Total current income taxes	(655)	(2)	(140)	(76)	(59)	19	32	68
Deferred income taxes								
Federal	1,064	299	341	256	115	21	74	(36)
State	49	11	20	(17)	45	3	22	5
Total deferred income taxes ^{(a)(b)}	1,113	310	361	239	160	24	96	(31)
ITC amortization	(10)	(5)	(3)	(3)	—	—	—	—
Income tax expense from continuing operations	448	303	218	160	101	43	128	37
Tax benefit from discontinued operations	(26)	—	—	—	—	—	—	—
Total income tax expense included in Consolidated Statements of Operations	\$ 422	\$ 303	\$ 218	\$ 160	\$ 101	\$ 43	\$ 128	\$ 37

- (a) Includes benefits of NOL carryforwards and tax credit carryforwards of \$22 million at Duke Energy Carolinas, \$293 million at Progress Energy, \$59 million at Duke Energy Progress, \$219 million at Duke Energy Florida, \$17 million at Duke Energy Ohio, \$21 million at Duke Energy Indiana and \$39 million at Piedmont. In addition, total deferred income taxes includes utilization of NOL carryforwards and tax credit carryforwards of \$18 million at Duke Energy.
- (b) For the year ended December 31, 2018, the Company has revised the December 31, 2017, estimates of the income tax effects of the Tax Act, in accordance with SAB 118. See the Statutory Rate Reconciliation section below for additional information on the Tax Act's impact on income tax expense.

Duke Energy Income from Continuing Operations before Income Taxes

(in millions)	Years Ended December 31,		
	2020	2019	2018
Domestic	\$ 826	\$ 4,053	\$ 3,018
Foreign	13	44	55
Income from continuing operations before income taxes	\$ 839	\$ 4,097	\$ 3,073

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FINANCIAL STATEMENTS

INCOME TAXES

Statutory Rate Reconciliation

The following tables present a reconciliation of income tax expense at the U.S. federal statutory tax rate to the actual tax expense from continuing operations.

(in millions)	Year Ended December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Income tax expense, computed at the statutory rate of 21%	\$ 176	\$ 219	\$ 243	\$ 80	\$ 204	\$ 62	\$ 103	\$ 61
State income tax, net of federal income tax effect	(80)	(40)	4	(25)	39	2	19	(12)
Amortization of excess deferred income tax	(276)	(82)	(118)	(68)	(49)	(20)	(36)	(21)
AFUDC equity income	(48)	(13)	(9)	(6)	(3)	(2)	(4)	(10)
AFUDC equity depreciation	103	19	10	5	5	1	4	—
Noncontrolling Interests	62	—	—	—	—	—	—	—
Renewable energy PTCs	(110)	—	—	—	—	—	—	—
Other tax credits	(37)	(13)	(16)	(14)	(2)	(1)	(3)	(2)
Tax true up	(12)	(3)	1	(5)	5	—	(1)	1
Other items, net	(14)	1	(2)	(3)	(1)	1	2	1
Income tax (benefit) expense from continuing operations	\$ (236)	\$ 88	\$ 113	\$ (36)	\$ 198	\$ 43	\$ 84	\$ 18
Effective tax rate	(28.1)%	8.4 %	9.7 %	(9.5)%	20.4 %	14.6 %	17.1 %	6.2 %

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Income tax expense, computed at the statutory rate of 21%	\$ 860	\$ 360	\$ 332	\$ 202	\$ 178	\$ 59	\$ 120	\$ 51
State income tax, net of federal income tax effect	(22)	(19)	8	(17)	35	3	22	2
Amortization of excess deferred income tax	(121)	(29)	(64)	(10)	(54)	(12)	(6)	(10)
AFUDC equity income	(52)	(9)	(14)	(13)	(1)	(3)	(3)	—
AFUDC equity depreciation	34	19	10	5	5	1	4	—
Renewable energy PTCs	(120)	—	—	—	—	—	—	—
Other tax credits	(23)	(11)	(9)	(7)	(2)	(1)	(1)	(1)
Tax true up	(64)	(9)	(8)	(3)	(5)	(7)	(1)	—
Other items, net	27	9	(2)	—	(1)	—	(1)	1
Income tax expense from continuing operations	\$ 519	\$ 311	\$ 253	\$ 157	\$ 155	\$ 40	\$ 134	\$ 43
Effective tax rate	12.7 %	18.1 %	16.0 %	16.3 %	18.3 %	14.3 %	23.5 %	17.6 %

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FINANCIAL STATEMENTS

INCOME TAXES

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
	Energy	Carolinas	Energy	Progress	Florida	Ohio	Indiana	Piedmont
Income tax expense, computed at the statutory rate of 21%	\$ 645	\$ 288	\$ 263	\$ 174	\$ 137	\$ 46	\$ 109	\$ 35
State income tax, net of federal income tax effect	30	14	13	(17)	28	2	20	4
Amortization of excess deferred income tax	(61)	—	(55)	(1)	(54)	(3)	(2)	—
AFUDC equity income	(42)	(15)	(22)	(12)	(10)	(2)	(2)	—
AFUDC equity depreciation	31	18	9	5	4	1	4	—
Renewable energy PTCs	(129)	—	—	—	—	—	—	—
Other tax credits	(28)	(7)	(13)	(5)	(8)	(1)	(1)	(3)
Tax Act ^(a)	20	1	25	19	—	2	—	—
Other items, net	(18)	4	(2)	(3)	4	(2)	—	1
Income tax expense from continuing operations	\$ 448	\$ 303	\$ 218	\$ 160	\$ 101	\$ 43	\$ 128	\$ 37
Effective tax rate	14.6 %	22.1 %	17.4 %	19.3 %	15.4 %	19.6 %	24.6 %	22.3 %

- (a) For the year ended December 31, 2018, the Company revised the December 31, 2017, estimates of the income tax effects of the Tax Act, in accordance with SAB 118. Amounts primarily include but are not limited to items that are excluded for ratemaking purposes related certain wholesale fixed-rate contracts, remeasurement of nonregulated net deferred tax liabilities, Federal NOLs, and valuation allowance on foreign tax credits.

Valuation allowances have been established for certain state NOL carryforwards and state income tax credits that reduce deferred tax assets to an amount that will be realized on a more-likely-than-not basis. The net change in the total valuation allowance is included in State income tax, net of federal income tax effect, in the above tables.

Valuation allowances have been established for foreign tax credits that reduce deferred tax assets to an amount that will be realized on a more-likely-than-not basis. The net change in the total valuation allowance is included in Tax Act in the above tables.

DEFERRED TAXES

Net Deferred Income Tax Liability Components

(in millions)	December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
	Energy	Carolinas	Energy	Progress	Florida	Ohio	Indiana	Piedmont
Deferred credits and other liabilities	\$ 286	\$ 85	\$ 87	\$ 67	\$ 18	\$ 21	\$ 7	\$ 38
Lease obligations	515	96	208	120	87	5	16	5
Pension, post-retirement and other employee benefits	236	(30)	68	24	38	16	26	(5)
Progress Energy merger purchase accounting adjustments ^(a)	441	—	—	—	—	—	—	—
Tax credits and NOL carryforwards	3,909	285	508	179	282	16	183	29
Regulatory liabilities and deferred credits	—	11	—	—	—	18	—	—
Investments and other assets	—	—	—	—	—	7	—	—
Other	93	8	14	9	4	7	1	8
Valuation allowance	(586)	—	—	—	—	—	—	—
Total deferred income tax assets	4,894	455	885	399	429	90	233	75
Investments and other assets	(2,267)	(1,127)	(669)	(507)	(164)	—	(14)	(48)
Accelerated depreciation rates	(10,729)	(3,170)	(3,868)	(1,778)	(2,124)	(1,071)	(1,433)	(844)
Regulatory assets and deferred debits, net	(1,142)	—	(744)	(412)	(332)	—	(14)	(4)
Total deferred income tax liabilities	(14,138)	(4,297)	(5,281)	(2,697)	(2,620)	(1,071)	(1,461)	(896)
Net deferred income tax liabilities	\$ (9,244)	\$ (3,842)	\$ (4,396)	\$ (2,298)	\$ (2,191)	\$ (981)	\$ (1,228)	\$ (821)

- (a) Primarily related to lease obligations and debt fair value adjustments.

FINANCIAL STATEMENTS

INCOME TAXES

The following table presents the expiration of tax credits and NOL carryforwards.

(in millions)	December 31, 2020		
	Amount	Expiration Year	
General Business Credits	\$ 2,033	2024	— 2040
Federal NOL carryforwards ^{(a) (f)}	154	2024	— Indefinite
Capital loss carryforward ^(e)	85	2024	
State carryforwards and credits ^{(b) (f)}	340	2021	— Indefinite
Foreign NOL carryforwards ^(c)	12	2027	— 2037
Foreign Tax Credits ^(d)	1,272	2024	— 2027
Charitable contribution carryforwards	13	2025	
Total tax credits and NOL carryforwards	\$ 3,909		

- (a) A valuation allowance of \$4 million has been recorded on the Federal NOL carryforwards, as presented in the Net Deferred Income Tax Liability Components table.
- (b) A valuation allowance of \$97 million has been recorded on the state NOL and attribute carryforwards, as presented in the Net Deferred Income Tax Liability Components table.
- (c) A valuation allowance of \$12 million has been recorded on the foreign NOL carryforwards, as presented in the Net Deferred Income Tax Liability Components table.
- (d) A valuation allowance of \$388 million has been recorded on the foreign tax credits, as presented in the Net Deferred Income Tax Liability Components table.
- (e) A valuation allowance of \$85 million has been recorded on the Federal capital loss carryforward, as presented in the Net Deferred Income Tax Liability Components table.
- (f) Indefinite carryforward for Federal NOLs, and NOLs for states that have adopted the Tax Act's NOL provisions, generated in tax years beginning after December 31, 2017.

(in millions)	December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Deferred credits and other liabilities	\$ 125	\$ 24	\$ 25	\$ 49	\$ —	\$ 14	\$ 5	\$ 22
Lease obligations	462	72	193	92	102	5	17	6
Pension, post-retirement and other employee benefits	303	(5)	88	38	44	17	27	(3)
Progress Energy merger purchase accounting adjustments ^(a)	389	—	—	—	—	—	—	—
Tax credits and NOL carryforwards	3,925	262	486	176	253	16	176	19
Regulatory liabilities and deferred credits	—	—	—	—	—	36	52	42
Investments and other assets	—	—	—	—	—	10	—	2
Other	97	5	8	3	2	8	1	6
Valuation allowance	(587)	—	—	—	—	—	—	—
Total deferred income tax assets	4,714	358	800	358	401	106	278	94
Investments and other assets	(1,664)	(981)	(577)	(390)	(190)	—	(12)	—
Accelerated depreciation rates	(10,813)	(3,254)	(3,798)	(1,918)	(1,913)	(1,028)	(1,416)	(802)
Regulatory assets and deferred debits, net	(1,115)	(44)	(887)	(438)	(477)	—	—	—
Total deferred income tax liabilities	(13,592)	(4,279)	(5,262)	(2,746)	(2,580)	(1,028)	(1,428)	(802)
Net deferred income tax liabilities	\$ (8,878)	\$ (3,921)	\$ (4,462)	\$ (2,388)	\$ (2,179)	\$ (922)	\$ (1,150)	\$ (708)

- (a) Primarily related to finance lease obligations and debt fair value adjustments.

FINANCIAL STATEMENTS

INCOME TAXES

UNRECOGNIZED TAX BENEFITS

The following tables present changes to unrecognized tax benefits.

(in millions)	Year Ended December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unrecognized tax benefits – January 1	\$ 126	\$ 8	\$ 9	\$ 6	\$ 3	\$ 1	\$ 1	\$ 4
Gross decreases – tax positions in prior periods	(2)	—	—	—	—	—	—	—
Gross increases – current period tax positions	4	2	1	—	—	—	—	—
Reduction due to lapse of statute of limitations	(3)	—	—	—	—	—	—	(3)
Total changes	(1)	2	1	—	—	—	—	(3)
Unrecognized tax benefits – December 31	\$ 125	\$ 10	\$ 10	\$ 6	\$ 3	\$ 1	\$ 1	\$ 1

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unrecognized tax benefits – January 1	\$ 24	\$ 6	\$ 9	\$ 6	\$ 3	\$ 1	\$ 1	\$ 4
Unrecognized tax benefits increases	105	2	1	1	—	—	—	—
Gross decreases – tax positions in prior periods	(3)	—	(1)	(1)	—	—	—	—
Total changes	102	2	—	—	—	—	—	—
Unrecognized tax benefits – December 31	\$ 126	\$ 8	\$ 9	\$ 6	\$ 3	\$ 1	\$ 1	\$ 4

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Unrecognized tax benefits – January 1	\$ 25	\$ 5	\$ 5	\$ 5	\$ 5	\$ 1	\$ 1	\$ 3
Unrecognized tax benefits increases (decreases)								
Gross decreases – tax positions in prior periods	(2)	(1)	—	—	(4)	—	—	—
Gross increases – tax positions in prior periods	7	2	4	1	2	—	—	1
Decreases due to settlements	(6)	—	—	—	—	—	—	—
Total changes	(1)	1	4	1	(2)	—	—	1
Unrecognized tax benefits – December 31	\$ 24	\$ 6	\$ 9	\$ 6	\$ 3	\$ 1	\$ 1	\$ 4

The following table includes additional information regarding the Duke Energy Registrants' unrecognized tax benefits at December 31, 2020. Duke Energy Registrants do not anticipate a material increase or decrease in unrecognized tax benefits within the next 12 months.

(in millions)	December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Amount that if recognized, would affect the effective tax rate or regulatory liability ^(a)	\$ 122	\$ 10	\$ 10	\$ 6	\$ 3	\$ 1	\$ 1	\$ 1

(a) The Duke Energy Registrants are unable to estimate the specific amounts that would affect the ETR versus the regulatory liability.

Duke Energy and its subsidiaries are no longer subject to U.S. federal examination for years before 2016. With few exceptions, Duke Energy and its subsidiaries are no longer subject to state, local or non-U.S. income tax examinations by tax authorities for years before 2016.

FINANCIAL STATEMENTS

OTHER INCOME AND EXPENSES, NET

24. OTHER INCOME AND EXPENSES, NET

The components of Other income and expenses, net on the Consolidated Statements of Operations are as follows.

(in millions)	Year Ended December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Interest income	\$ 32	\$ 4	\$ 8	\$ 2	\$ 6	\$ 4	\$ 6	\$ 17
AFUDC equity	154	62	42	29	12	7	23	19
Post in-service equity returns	27	17	8	8	—	1	1	—
Nonoperating income, other	240	94	71	36	35	4	7	15
Other income and expense, net	\$ 453	\$ 177	\$ 129	\$ 75	\$ 53	\$ 16	\$ 37	\$ 51

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Interest income	\$ 31	\$ 1	\$ 11	\$ —	\$ 11	\$ 10	\$ 10	\$ 1
AFUDC equity	139	42	66	60	6	13	18	—
Post in-service equity returns	29	20	7	7	—	1	—	—
Nonoperating income, other	231	88	57	33	31	—	13	19
Other income and expense, net	\$ 430	\$ 151	\$ 141	\$ 100	\$ 48	\$ 24	\$ 41	\$ 20

(in millions)	Year Ended December 31, 2018							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Interest income	\$ 20	\$ 1	\$ 18	\$ 1	\$ 18	\$ 7	\$ 9	\$ 1
AFUDC equity	221	73	104	57	47	11	32	—
Post in-service equity returns	15	9	5	5	—	1	—	—
Nonoperating income, other	143	70	38	24	21	4	4	13
Other income and expense, net	\$ 399	\$ 153	\$ 165	\$ 87	\$ 86	\$ 23	\$ 45	\$ 14

25. SUBSEQUENT EVENTS

For information on subsequent events related to the sale of a minority interest in Duke Energy Indiana and regulatory matters, see Notes 1 and 3, respectively.

In February 2021, a severe winter storm impacted certain Commercial Renewables assets in Texas. Extreme weather conditions limited the ability for these solar and wind facilities to generate and sell electricity into the Electric Reliability Council of Texas market. The financial impact of the storm is estimated to be between approximately \$75 million and \$100 million on a pre-tax basis.

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INDEPENDENT ACCOUNTANTS

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

ITEM 9A. CONTROLS AND PROCEDURES

Disclosure Controls and Procedures

Disclosure controls and procedures are controls and other procedures that are designed to ensure that information required to be disclosed by the Duke Energy Registrants in the reports they file or submit under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified by the SEC rules and forms.

Disclosure controls and procedures include, without limitation, controls and procedures designed to provide reasonable assurance that information required to be disclosed by the Duke Energy Registrants in the reports they file or submit under the Exchange Act is accumulated and communicated to management, including the Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.

Under the supervision and with the participation of management, including the Chief Executive Officer and Chief Financial Officer, the Duke Energy Registrants have evaluated the effectiveness of their disclosure controls and procedures (as such term is defined in Rule 13a-15(e) and 15d-15(e) under the Exchange Act) as of December 31, 2020, and, based upon this evaluation, the Chief Executive Officer and Chief Financial Officer have concluded that these controls and procedures are effective in providing reasonable assurance of compliance.

Changes in Internal Control Over Financial Reporting

Under the supervision and with the participation of management, including the Chief Executive Officer and Chief Financial Officer, the Duke Energy Registrants have evaluated changes in internal control over financial reporting (as such term is defined in Rules 13a-15 and 15d-15 under the Exchange Act) that occurred during the fiscal quarter ended December 31, 2020, and have concluded no change has materially affected, or is reasonably likely to materially affect, internal control over financial reporting.

Management's Annual Report on Internal Control Over Financial Reporting

The Duke Energy Registrants' management is responsible for establishing and maintaining an adequate system of internal control over financial reporting, as such term is defined in Exchange Act Rules 13a-15(f) and 15d-15(f). The Duke Energy Registrants' internal control system was designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes, in accordance with GAAP. Due to inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness of the internal control over financial reporting to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with policies and procedures may deteriorate.

The Duke Energy Registrants' management, including their Chief Executive Officer and Chief Financial Officer, has conducted an evaluation of the effectiveness of their internal control over financial reporting as of December 31, 2020, based on the framework in the Internal Control – Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on that evaluation, management concluded that its internal controls over financial reporting were effective as of December 31, 2020.

Deloitte & Touche LLP, Duke Energy's independent registered public accounting firm, has issued an attestation report on the effectiveness of Duke Energy's internal control over financial reporting, which is included herein. This report is not applicable to the Subsidiary Registrants as these companies are not accelerated or large accelerated filers.

REPORTS

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholders and the Board of Directors of Duke Energy Corporation

Opinion on Internal Control over Financial Reporting

We have audited the internal control over financial reporting of Duke Energy Corporation and subsidiaries (the "Company") as of December 31, 2020, based on criteria established in *Internal Control — Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2020, based on criteria established in *Internal Control — Integrated Framework (2013)* issued by COSO.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated financial statements as of and for the year ended December 31, 2020, of the Company and our report dated February 25, 2021, expressed an unqualified opinion on those financial statements.

Basis for Opinion

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying *Management's Annual Report on Internal Control Over Financial Reporting*. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Deloitte & Touche LLP

Charlotte, North Carolina
February 25, 2021

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OTHER INFORMATION

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

Information regarding Duke Energy's Executive Officers is set forth in Part I, Item 1, "Business – Information about Our Executive Officers," in this Annual Report on Form 10-K. Duke Energy will provide information that is responsive to the remainder of this Item 10 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 10 by reference.

ITEM 11. EXECUTIVE COMPENSATION

Duke Energy will provide information that is responsive to this Item 11 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 11 by reference.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

Equity Compensation Plan Information

The following table shows information as of December 31, 2020, about securities to be issued upon exercise of outstanding options, warrants and rights under Duke Energy's equity compensation plans, along with the weighted average exercise price of the outstanding options, warrants and rights and the number of securities remaining available for future issuance under the plans.

Plan Category	Number of securities to be issued upon exercise of outstanding options, warrants and rights (a)	Weighted average exercise price of outstanding options, warrants and rights (b) ⁽¹⁾	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a)) (c)
Equity compensation plans approved by security holders	3,256,542 (2)	n/a	4,450,675 (3)
Equity compensation plans not approved by security holders	143,272 (4)	n/a	n/a (5)
Total	3,399,814	n/a	4,450,675

- (1) As of December 31, 2020, no options were outstanding under equity compensation plans.
- (2) Includes RSUs and performance shares (assuming the maximum payout level) granted under the Duke Energy Corporation 2015 Long-Term Incentive Plan, as well as shares that could be payable with respect to certain compensation deferred under the Duke Energy Corporation Executive Savings Plan (Executive Savings Plan) or the Directors' Savings Plan.
- (3) Includes shares remaining available for issuance pursuant to stock awards under the Duke Energy Corporation 2015 Long-Term Incentive Plan.
- (4) Includes shares that could be payable with respect to certain compensation deferred under the Executive Savings Plan or the Duke Energy Corporation Directors' Savings Plan (Directors' Savings Plan), each of which is a non-qualified deferred compensation plan described in more detail below.
- (5) The number of shares remaining available for future issuance under equity compensation plans not approved by security holders cannot be determined because it is based on the amount of future voluntary deferrals, if any, under the Executive Savings Plan and the Directors' Savings Plan.

Under the Executive Savings Plan, participants can elect to defer a portion of their base salary and short-term incentive compensation. Participants also receive a company matching contribution in excess of the contribution limits prescribed by the Internal Revenue Code under the Duke Energy Retirement Savings Plan, which is the 401(k) plan in which employees are generally eligible to participate. Eligible participants may also earn pay credits based on age and length of service on eligible earnings that exceed limited prescribed by the Internal Revenue Code.

In general, payments are made following termination of employment or death in the form of a lump sum or installments, as selected by the participant. Participants may direct the deemed investment of their accounts (with certain exceptions) among investment options available under the Duke Energy Retirement Savings Plan, including the Duke Energy Common Stock Fund. Participants may change their investment elections on a daily basis. Deferrals of equity awards are credited with earnings and losses based on the performance of the Duke Energy Common Stock Fund. The benefits payable under the plan are unfunded and subject to the claims of Duke Energy's creditors.

Under the Directors' Savings Plan, outside directors may elect to defer all or a portion of their annual compensation, generally consisting of retainers. Deferred amounts are credited to an unfunded account, the balance of which is adjusted for the performance of phantom investment options, including the Duke Energy Common Stock Fund, as elected by the director, and generally are paid when the director terminates his or her service from the Board of Directors.

Duke Energy will provide additional information that is responsive to this Item 12 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 12 by reference.

OTHER INFORMATION

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE

Duke Energy will provide information that is responsive to this Item 13 in its definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report. That information is incorporated in this Item 13 by reference.

ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

Deloitte provided professional services to the Duke Energy Registrants. The following tables present the Deloitte fees for services rendered to the Duke Energy Registrants during 2020 and 2019.

(in millions)	Year Ended December 31, 2020							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Types of Fees								
Audit Fees ^(a)	\$ 12.9	\$ 3.0	\$ 4.5	\$ 2.3	\$ 2.2	\$ 1.9	\$ 1.7	\$ 1.3
Audit-Related Fees ^(b)	1.7	0.2	0.3	0.1	0.2	0.3	0.1	—
Tax Fees ^(c)	0.1	—	—	—	—	—	—	—
Total Fees	\$ 14.7	\$ 3.2	\$ 4.8	\$ 2.4	\$ 2.4	\$ 2.2	\$ 1.8	\$ 1.3

(in millions)	Year Ended December 31, 2019							
	Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Piedmont
Types of Fees								
Audit Fees ^(a)	\$ 13.5	\$ 4.6	\$ 5.3	\$ 3.1	\$ 2.2	\$ 0.9	\$ 1.4	\$ 0.8
Audit-Related Fees ^(b)	0.6	0.1	0.2	0.1	0.1	0.2	—	—
Tax Fees ^(c)	0.2	0.1	0.1	—	—	—	—	—
Total Fees	\$ 14.3	\$ 4.8	\$ 5.6	\$ 3.2	\$ 2.3	\$ 1.1	\$ 1.4	\$ 0.8

- (a) Audit Fees are fees billed, or expected to be billed, by Deloitte for professional services for the financial statement audits, audit of the Duke Energy Registrants' financial statements included in the Annual Report on Form 10-K, reviews of financial statements included in Quarterly Reports on Form 10-Q, and services associated with securities filings such as comfort letters and consents.
- (b) Audit-Related Fees are fees billed, or expected to be billed, by Deloitte for assurance and related services that are reasonably related to the performance of an audit or review of financial statements, including statutory reporting requirements.
- (c) Tax Fees are fees billed by Deloitte for tax return assistance and preparation, tax examination assistance and professional services related to tax planning and tax strategy.

To safeguard the continued independence of the independent auditor, the Audit Committee of Duke Energy adopted a policy that all services provided by the independent auditor require preapproval by the Audit Committee. Pursuant to the policy, certain audit services, audit-related services, tax services and other services have been specifically preapproved up to fee limits. In the event the cost of any of these services may exceed the fee limits, the Audit Committee must specifically approve the service. All services performed in 2020 and 2019 by the independent accountant were approved by the Audit Committee pursuant to the preapproval policy.

ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

(a) Consolidated Financial Statements and Supplemental Schedules included in Part II of this Annual Report are as follows:

Duke Energy Corporation

Consolidated Financial Statements
 Consolidated Statements of Operations for the Years Ended December 31, 2020, 2019 and 2018
 Consolidated Statements of Comprehensive Income for the Years Ended December 31, 2020, 2019 and 2018
 Consolidated Balance Sheets as of December 31, 2020, and 2019
 Consolidated Statements of Cash Flows for the Years Ended December 31, 2020, 2019 and 2018
 Consolidated Statements of Changes in Equity for the Years Ended December 31, 2020, 2019 and 2018
 Notes to the Consolidated Financial Statements
 Report of Independent Registered Public Accounting Firm
 All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Carolinas, LLC

Consolidated Financial Statements
 Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2020, 2019 and 2018
 Consolidated Balance Sheets as of December 31, 2020, and 2019
 Consolidated Statements of Cash Flows for the Years Ended December 31, 2020, 2019 and 2018
 Consolidated Statements of Changes in Equity for the Years Ended December 31, 2020, 2019 and 2018
 Notes to the Consolidated Financial Statements
 Report of Independent Registered Public Accounting Firm
 All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Progress Energy, Inc.

Consolidated Financial Statements
 Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2020, 2019 and 2018
 Consolidated Balance Sheets as of December 31, 2020, and 2019
 Consolidated Statements of Cash Flows for the Years Ended December 31, 2020, 2019 and 2018
 Consolidated Statements of Changes in Equity for the Years Ended December 31, 2020, 2019 and 2018
 Notes to the Consolidated Financial Statements
 Report of Independent Registered Public Accounting Firm
 All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Progress, LLC

Consolidated Financial Statements
 Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2020, 2019 and 2018
 Consolidated Balance Sheets as of December 31, 2020, and 2019
 Consolidated Statements of Cash Flows for the Years Ended December 31, 2020, 2019 and 2018
 Consolidated Statements of Changes in Equity for the Years Ended December 31, 2020, 2019 and 2018
 Notes to the Consolidated Financial Statements
 Report of Independent Registered Public Accounting Firm
 All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Florida, LLC

Consolidated Financial Statements
 Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2020, 2019 and 2018
 Consolidated Balance Sheets as of December 31, 2020, and 2019
 Consolidated Statements of Cash Flows for the Years Ended December 31, 2020, 2019 and 2018
 Consolidated Statements of Changes in Equity for the Years Ended December 31, 2020, 2019 and 2018
 Notes to the Consolidated Financial Statements
 Report of Independent Registered Public Accounting Firm
 All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Ohio, Inc.

Consolidated Financial Statements
 Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2020, 2019 and 2018
 Consolidated Balance Sheets as of December 31, 2020, and 2019
 Consolidated Statements of Cash Flows for the Years Ended December 31, 2020, 2019 and 2018
 Consolidated Statements of Changes in Equity for the Years Ended December 31, 2020, 2019 and 2018
 Notes to the Consolidated Financial Statements
 Report of Independent Registered Public Accounting Firm
 All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Duke Energy Indiana, LLC

Consolidated Financial Statements

Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2020, 2019 and 2018

Consolidated Balance Sheets as of December 31, 2020, and 2019

Consolidated Statements of Cash Flows for the Years Ended December 31, 2020, 2019 and 2018

Consolidated Statements of Changes in Equity for the Years Ended December 31, 2020, 2019 and 2018

Notes to the Consolidated Financial Statements

Report of Independent Registered Public Accounting Firm

All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

Piedmont Natural Gas Company, Inc.

Consolidated Financial Statements

Consolidated Statements of Operations and Comprehensive Income for the Years Ended December 31, 2020, 2019 and 2018

Consolidated Balance Sheets as of December 31, 2020, and 2019

Consolidated Statements of Cash Flows for the Years Ended December 31, 2020, 2019 and 2018

Consolidated Statements of Changes in Equity for the Years Ended December 31, 2020, 2019 and 2018

Notes to the Consolidated Financial Statements

Report of Independent Registered Public Accounting Firm

All other schedules are omitted because they are not required, or because the required information is included in the Consolidated Financial Statements or Notes.

EXHIBITS

EXHIBIT INDEX

Exhibits filed herewith are designated by an asterisk (*). All exhibits not so designated are incorporated by reference to a prior filing, as indicated. Items constituting management contracts or compensatory plans or arrangements are designated by a double asterisk (**). The Company agrees to furnish upon request to the Commission a copy of any omitted schedules or exhibits upon request on all items designated by a triple asterisk (***).

Exhibit Number		Duke Energy	Duke Energy Carolinas	Progress Energy	Duke Energy Progress	Duke Energy Florida	Duke Energy Ohio	Duke Energy Indiana	Duke Energy Piedmont
2.1	Agreement and Plan of Merger between Duke Energy Corporation, Diamond Acquisition Corporation and Progress Energy, Inc., dated as of January 8, 2011 (incorporated by reference to Exhibit 2.1 to Duke Energy Corporation's Current Report on Form 8-K filed on January 11, 2011, File No. 1-32853).	X		X					
2.2	Agreement and Plan of Merger between Piedmont Natural Gas Company, Duke Energy Corporation and Forest Subsidiary, Inc. (incorporated by reference to Exhibit 2.1 to Duke Energy Corporation's Current Report on Form 8-K filed on October 26, 2015, File No. 1-32853).	X							X
3.1	Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 to Duke Energy Corporation's Current Report on Form 8-K filed on May 20, 2014, File No. 1-32853).	X							
3.2	Amended and Restated By-Laws of Duke Energy Corporation (incorporated by reference to Exhibit 3.1 to Duke Energy Corporation's Current Report on Form 8-K filed on January 4, 2016, File No. 1-32853).	X							
3.3	Articles of Organization including Articles of Conversion (incorporated by reference to Exhibit 3.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on April 7, 2006, File No. 1-4928).		X						
3.3.1	Amended Articles of Organization, effective October 1, 2006 (incorporated by reference to Exhibit 3.1 to Duke Energy Carolinas, LLC's Quarterly Report on Form 10-Q for the quarter ended September 30, 2006, filed on November 13, 2006, File No. 1-4928).		X						
3.4	Amended Articles of Incorporation of Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company), effective October 23, 1996, (incorporated by reference to Exhibit 3(a) to registrant's Quarterly Report on Form 10-Q for the quarter ended September 30, 1996, filed on November 13, 1996, File No. 1-1232).						X		
3.4.1	Amended Articles of Incorporation, effective September 19, 2006 (incorporated by reference to Exhibit 3.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Quarterly Report on Form 10-Q for the quarter ended September 30, 2006, filed on November 17, 2006, File No. 1-1232).						X		
3.5	Certificate of Conversion of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.1 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.1	Articles of Entity Conversion of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.2	Plan of Entity Conversion of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.3 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.3	Articles of Organization of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.4 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	
3.5.4	Limited Liability Company Operating Agreement of Duke Energy Indiana, LLC (incorporated by reference to Exhibit 3.5 to registrant's Current Report on Form 8-K filed on January 4, 2016, File No. 1-3543).							X	

EXHIBITS

3.6	Limited Liability Company Operating Agreement of Duke Energy Carolinas, LLC (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on April 7, 2006, File No. 1-4928).	X	
3.7	Regulations of Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company), effective July 23, 2003 (incorporated by reference to Exhibit 3.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2003, filed on August 13, 2003, File No. 1-1232).		X
3.8	Articles of Organization including Articles of Conversion for Duke Energy Progress, LLC (incorporated by reference to Exhibit 3.1 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3382).		X
3.8.1	Plan of Conversion of Duke Energy Progress, Inc. (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3382).		X
3.8.2	Limited Liability Company Operating Agreement of Duke Energy Progress, LLC (incorporated by reference to Exhibit 3.3 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3382).		X
3.9	Amended and Restated Articles of Incorporation of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective June 15, 2000 (incorporated by reference to Exhibit 3(a)(1) to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2000, filed on August 14, 2000, File No. 1-3382).	X	
3.9.1	Articles of Amendment to the Amended and Restated Articles of Incorporation of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective December 4, 2000 (incorporated by reference to Exhibit 3(b)(1) to registrant's Annual Report on Form 10-K for the year ended December 31, 2001, filed on March 28, 2002, File No. 1-3382).	X	
3.9.2	Articles of Amendment to the Amended and Restated Articles of Incorporation of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective May 10, 2006 (incorporated by reference to Exhibit 3(a) to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006, filed on August 9, 2006, File No. 1-15929).	X	
3.9.3	By-Laws of Progress Energy, Inc. (formerly CP&L Energy, Inc.), effective May 10, 2006 (incorporated by reference to Exhibit 3(b) to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006, filed on August 9, 2006, File No. 1-15929).	X	
3.10	Articles of Conversion for Duke Energy Florida, LLC (incorporated by reference to Exhibit 3.4 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).		X
3.10.1	Articles of Organization for Duke Energy Florida, LLC (incorporated by reference to Exhibit 3.5 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).		X
3.10.2	Plan of Conversion of Duke Energy Florida, Inc. (incorporated by reference to Exhibit 3.6 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).		X
3.10.3	Limited Liability Company Operating Agreement of Duke Energy Florida, LLC (incorporated by reference to Exhibit 3.7 to registrant's Current Report on Form 8-K filed on August 4, 2015, File No. 1-3274).		X
3.11	Amended and Restated Articles of Incorporation of Piedmont Natural Gas Company, Inc., dated as of October 3, 2016 (incorporated by reference to Exhibit 3.1 to registrant's Annual Report on Form 10-K for the fiscal year ended October 31, 2016, filed on December 22, 2016, File No. 001-06196).		X
3.11.1	Bylaws of Piedmont Natural Gas Company, Inc., as amended and restated effective October 3, 2016 (incorporated by reference to Exhibit 3.2 to registrant's Current Report on Form 8-K filed on October 3, 2016, File No. 1-06196).		X
3.12	Certificate of Designations with respect to Series A Preferred Stock, dated March 28, 2019 (incorporated by reference to Exhibit 3.1 to registrant's Current Report on Form 8-K filed on March 29, 2019, File No. 1-32853).	X	

EXHIBITS

3.13	Certificate of Designation with respect to the Series B Preferred Stock, dated September 11, 2019 (incorporated by reference to Exhibit 3.1 to registrant's Current Report on Form 8-K filed on September 12, 2019, File No. 1-32853).	X	
3.14	Description of Registered Securities (incorporated by reference from the registrant's prospectus contained in Form S-3 filed on September 23, 2019, File No. 333-233896, under the headings "Description of Common Stock," "Description of Preferred Stock," "Description of Depositary Shares," "Description of Stock Purchase Contracts and Stock Purchase Units," and "Description of Debt Securities").	X	
3.15	Description of Registered Securities (incorporated by reference from the registrant's prospectus contained in Form S-3 filed on September 23, 2019, File No. 333-233896-01, under the heading "Description of Debt Securities").		X
3.16	Description of Registered Securities (incorporated by reference from the registrant's prospectus contained in Form S-3 filed on September 23, 2019, File No. 333-233896-02, under the headings "Description of First Mortgage Bonds" and "Description of Debt Securities").		X
3.17	Description of Registered Securities (incorporated by reference from the registrant's prospectus contained in Form S-3 filed on September 23, 2019, File No. 333-233896-03, under the headings "Description of First Mortgage Bonds" and "Description of Unsecured Debt Securities").		X
3.18	Description of Registered Securities (incorporated by reference from the registrant's prospectus contained in Form S-3 filed on September 23, 2019, File No. 333-233896-04, under the headings "Description of First Mortgage Bonds" and "Description of Unsecured Debt Securities").		X
3.19	Description of Registered Securities (incorporated by reference from the registrant's prospectus contained in Form S-3 filed on September 23, 2019, File No. 333-233896-05, under the headings "Description of First Mortgage Bonds" and "Description of Debt Securities").		X
3.20	Description of Registered Securities (incorporated by reference from the registrant's prospectus contained in Form S-3 filed on September 23, 2019, File No. 333-233896-06, under the headings "Description of First and Refunding Mortgage Bonds," "Description of Senior Notes," and "Description of Subordinate Notes").	X	
4.1	Indenture between Duke Energy Corporation and The Bank of New York Mellon Trust Company, N.A., as Trustee, dated as of June 3, 2008 (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 16, 2008, File No. 1-32853).	X	
4.1.1	First Supplemental Indenture, dated as of June 16, 2008 (incorporated by reference to Exhibit 4.2 to Duke Energy Corporation's Current Report on Form 8-K filed on June 16, 2008, File No. 1-32853).	X	
4.1.2	Second Supplemental Indenture, dated as of January 26, 2009 (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on January 26, 2009, File No. 1-32853).	X	
4.1.3	Third Supplemental Indenture, dated as of August 28, 2009 (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on August 28, 2009, File No. 1-32853).	X	
4.1.4	Fourth Supplemental Indenture, dated as of March 25, 2010 (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on March 25, 2010, File No. 1-32853).	X	
4.1.5	Fifth Supplemental Indenture, dated as of August 25, 2011 (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on August 25, 2011, File No. 1-32853).	X	

EXHIBITS

4.1.6	<u>Sixth Supplemental Indenture, dated as of November 17, 2011 (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on November 17, 2011, File No. 1-32853).</u>	X
4.1.7	<u>Seventh Supplemental Indenture, dated as of August 16, 2012 (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on August 16, 2012, File No. 1-32853).</u>	X
4.1.8	<u>Eighth Supplemental Indenture, dated as of January 14, 2013 (incorporated by reference to Exhibit 2 to the Registration Statement of Form 8-A of Duke Energy Corporation filed on January 14, 2013, File No. 1-32853).</u>	X
4.1.9	<u>Ninth Supplemental Indenture, dated as of June 13, 2013 (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 13, 2013, File No. 1-32853).</u>	X
4.1.10	<u>Tenth Supplemental Indenture, dated as of October 11, 2013 (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on October 11, 2013, File No. 1-32853).</u>	X
4.1.11	<u>Eleventh Supplemental Indenture, dated as of April 4, 2014 (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Current Report on Form 8-K filed on April 4, 2014, File No. 1-32853).</u>	X
4.1.12	<u>Twelfth Supplemental Indenture, dated as of November 19, 2015 (incorporated by reference to Exhibit 4.2 to Duke Energy Corporation's Current Report on Form 8-K filed on November 19, 2015, File No. 1-32853).</u>	X
4.1.13	<u>Thirteenth Supplemental Indenture, dated as of April 18, 2016, to the indenture dated as of June 3, 2008, between Duke Energy Corporation and The Bank of New York Mellon Trust Company, N.A., as Trustee (incorporated by reference to Exhibit 4.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended March 31, 2016, filed on May 5, 2016, File No. 1-32853).</u>	X
4.1.14	<u>Fourteenth Supplemental Indenture, dated as of August 12, 2016 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 12, 2016, File No. 1-32853).</u>	X
4.1.15	<u>Fifteenth Supplemental Indenture, dated as of April 11, 2017 (incorporated by reference to Exhibit 4.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2017, filed on May 9, 2017, File No. 1-32853).</u>	X
4.1.16	<u>Sixteenth Supplemental Indenture, dated as of June 13, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2017, filed on August 3, 2017, File No. 1-32853).</u>	X
4.1.17	<u>Seventeenth Supplemental Indenture, dated as of August 10, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 10, 2017, File No. 1-32853).</u>	X
4.1.18	<u>Eighteenth Supplemental Indenture, dated as of March 29, 2018 (incorporated by reference to Exhibit 4.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2018, filed on May 10, 2018, File No. 1-32853).</u>	X
4.1.19	<u>Nineteenth Supplemental Indenture, dated as of May 16, 2018 (incorporated by reference to Exhibit 4.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2018, filed on August 2, 2018, File No. 1-32853).</u>	X
4.1.20	<u>Twentieth Supplemental Indenture (incorporated by reference to Exhibit 4.2 to registrant's Registration Statement on Form 8-A filed on September 17, 2018, File No. 1-32853).</u>	X
4.1.21	<u>Twenty-first Supplemental Indenture (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on March 11, 2019, File no. 1-32853).</u>	X
4.1.22	<u>Twenty-second Supplemental Indenture, dated as of June 7, 2019 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on June 7, 2019, File No. 1-32853).</u>	X

EXHIBITS

4.1.23	<u>Twenty-third Supplemental Indenture, dated as of May 15, 2020 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on May 15, 2020, File No. 1-32853).</u>	X
4.1.24	<u>Twenty-fourth Supplemental Indenture, dated as of September 11, 2020 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on September 11, 2020, File No. 1-32853).</u>	X
4.2	<u>Senior Indenture between Duke Energy Carolinas, LLC and The Bank of New York Mellon Trust Company, N.A., as successor trustee to JPMorgan Chase Bank (formerly known as The Chase Manhattan Bank), dated as of September 1, 1998 (incorporated by reference to Exhibit 4-D-1 to registrant's Post-Effective Amendment No. 2 to Registration Statement on Form S-3 filed on April 7, 1999, File No. 333-14209).</u>	X
4.2.1	<u>Fifteenth Supplemental Indenture, dated as of April 3, 2006 (incorporated by reference to Exhibit 4.4.1 to registrant's Registration Statement on Form S-3 filed on October 3, 2007, File No. 333-146483-03).</u>	X
4.2.2	<u>Sixteenth Supplemental Indenture, dated as of June 5, 2007 (incorporated by reference to Exhibit 4.1 registrant's Current Report on Form 8-K filed on June 6, 2007, File No. 1-4928).</u>	X
4.3	First and Refunding Mortgage from Duke Energy Carolinas, LLC to The Bank of New York Mellon Trust Company, N.A., successor trustee to Guaranty Trust Company of New York, dated as of December 1, 1927 (incorporated by reference to Exhibit 7(a) to registrant's Form S-1, effective October 15, 1947, File No. 2-7224).	X
4.3.1	<u>Instrument of Resignation, Appointment and Acceptance among Duke Energy Carolinas, LLC, JPMorgan Chase Bank, N.A., as Trustee, and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of September 24, 2007, (incorporated by reference to Exhibit 4.6.1 to registrant's Registration Statement on Form S-3 filed on October 3, 2007, File No. 333-146483).</u>	X
4.3.2	Ninth Supplemental Indenture, dated as of February 1, 1949 (incorporated by reference to Exhibit 7(j) to registrant's Form S-1 filed on February 3, 1949, File No. 2-7808).	X
4.3.3	Twentieth Supplemental Indenture, dated as of June 15, 1964 (incorporated by reference to Exhibit 4-B-20 to registrant's Form S-1 filed on August 23, 1966, File No. 2-25367).	X
4.3.4	Twenty-third Supplemental Indenture, dated as of February 1, 1968 (incorporated by reference to Exhibit 2-B-26 to registrant's Form S-9 filed on January 21, 1969, File No. 2-31304).	X
4.3.5	Sixtieth Supplemental Indenture, dated as of March 1, 1990 (incorporated by reference to Exhibit 4-B-61 to registrant's Annual Report on Form 10-K for the year ended December 31, 1990, File No.1-4928).	X
4.3.6	Sixty-third Supplemental Indenture, dated as of July 1, 1991 (incorporated by reference to Exhibit 4-B-64 to registrant's Registration Statement on Form S-3 filed on February 13, 1992, File No. 33-45501).	X
4.3.7	<u>Eighty-fourth Supplemental Indenture, dated as of March 20, 2006 (incorporated by reference to Exhibit 4.6.9 to registrant's Registration Statement on Form S-3 filed on October 3, 2007, File No. 333-146483-03).</u>	X
4.3.8	<u>Eighty-fifth Supplemental Indenture, dated as of January 10, 2008 (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on January 11, 2008, File No.1-4928).</u>	X
4.3.9	<u>Eighty-seventh Supplemental Indenture, dated as of April 14, 2008 (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on April 15, 2008, File No.1-4928).</u>	X
4.3.10	<u>Eighty-eighth Supplemental Indenture, dated as of November 17, 2008 (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on November 20, 2008, File No.1-4928).</u>	X

EXHIBITS

4.3.11	<u>Ninetieth Supplemental Indenture, dated as of November 19, 2009 (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on November 19, 2009, File No.1-4928).</u>	X
4.3.12	<u>Ninety-first Supplemental Indenture, dated as of June 7, 2010 (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on June 7, 2010, File No.1-4928).</u>	X
4.3.13	<u>Ninety-third Supplemental Indenture, dated as of May 19, 2011 (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on May 19, 2011, File No.1-4928).</u>	X
4.3.14	<u>Ninety-fourth Supplemental Indenture, dated as of December 8, 2011 (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on December 8, 2011, File No.1-4928).</u>	X
4.3.15	<u>Ninety-fifth Supplemental Indenture, dated as of September 21, 2012 (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on September 21, 2012, File No.1-4928).</u>	X
4.3.16	<u>Ninety-sixth Supplemental Indenture, dated as of March 12, 2015, between Duke Energy Carolinas, LLC and The Bank of New York Mellon Trust Company, N.A., as Trustee (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on March 12, 2015, File No. 1-4928).</u>	X
4.3.17	<u>Ninety-seventh Supplemental Indenture, dated as of March 11, 2016 (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on March 11, 2016, File No. 1-4928).</u>	X
4.3.18	<u>Ninety-eighth Supplemental Indenture, dated as of November 17, 2016 (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC's Current Report on Form 8-K filed on November 17, 2016, File No. 1-4928).</u>	X
4.3.19	<u>Ninety-ninth Supplemental Indenture, dated as of November 14, 2017 (incorporated by reference to Exhibit 4.1 to Duke Energy Carolinas, LLC Current Report on Form 8-K filed on November 14, 2017, File No. 1-4928).</u>	X
4.3.20	<u>One Hundredth Supplemental Indenture, dated as of March 1, 2018 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on March 1, 2018, File No. 1-4928).</u>	X
4.3.21	<u>One-Hundred and Second Supplemental Indenture, dated as of August 14, 2019 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 14, 2019, File No. 1-04928).</u>	X
4.3.22	<u>One-Hundred and Third Supplemental Indenture, dated as of January 8, 2020 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on January 8, 2020, File No. 1-4928).</u>	X
4.3.23	<u>One-Hundred and Fourth Supplemental Indenture, dated as of January 8, 2020 (incorporated by reference to Exhibit 4.3 to registrant's Current Report on Form 8-K filed on January 8, 2020, File No. 1-4928).</u>	X
4.4	Mortgage and Deed of Trust between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and The Bank of New York Mellon (formerly Irving Trust Company) and Frederick G. Herbst (Tina D. Gonzalez, successor), as Trustees, dated as of May 1, 1940.	X
4.4.1	First through Fifth Supplemental Indentures thereto (incorporated by reference to Exhibit 2(b), File No. 2-64189).	X
4.4.2	Sixth Supplemental Indenture dated April 1, 1960 (incorporated by reference to Exhibit 2(b)-5, File No. 2-16210).	X
4.4.3	Seventh Supplemental Indenture dated November 1, 1961 (incorporated by reference to Exhibit 2(b)-6, File No. 2-16210).	X
4.4.4	Eighth Supplemental Indenture dated July 1, 1964 (incorporated by reference to Exhibit 4(b)-8, File No. 2-19118).	X

EXHIBITS

4.4.5	Ninth Supplemental Indenture dated April 1, 1966 (incorporated by reference to Exhibit 4(b)-2, File No. 2-22439).	X
4.4.6	Tenth Supplemental Indenture dated October 1, 1967 (incorporated by reference to Exhibit 4(b)-2, File No. 2-24624).	X
4.4.7	Eleventh Supplemental Indenture dated October 1, 1968 (incorporated by reference to Exhibit 2(c), File No. 2-27297).	X
4.4.8	Twelfth Supplemental Indenture dated January 1, 1970 (incorporated by reference to Exhibit 2(c), File No. 2-30172).	X
4.4.9	Thirteenth Supplemental Indenture dated August 1, 1970 (incorporated by reference to Exhibit 2(c), File No. 2-35694).	X
4.4.10	Fourteenth Supplemental Indenture dated January 1, 1971 (incorporated by reference to Exhibit 2(c), File No. 2-37505).	X
4.4.11	Fifteenth Supplemental Indenture dated October 1, 1971 (incorporated by reference to Exhibit 2(c), File No. 2-39002).	X
4.4.12	Sixteenth Supplemental Indenture dated May 1, 1972 (incorporated by reference to Exhibit 2(c), File No. 2-41738).	X
4.4.13	Seventeenth Supplemental Indenture dated November 1, 1973 (incorporated by reference to Exhibit 2(c), File No. 2-43439).	X
4.4.14	Eighteenth Supplemental Indenture dated (incorporated by reference to Exhibit 2(c), File No. 2-47751).	X
4.4.15	Nineteenth Supplemental Indenture dated May 1, 1974 (incorporated by reference to Exhibit 2(c), File No. 2-49347).	X
4.4.16	Twentieth Supplemental Indenture dated December 1, 1974 (incorporated by reference to Exhibit 2(c), File No. 2-53113).	X
4.4.17	Twenty-first Supplemental Indenture dated April 15, 1975 (incorporated by reference to Exhibit 2(d), File No. 2-53113).	X
4.4.18	Twenty-second Supplemental Indenture dated October 1, 1977 (incorporated by reference to Exhibit 2(c), File No. 2-59511).	X
4.4.19	Twenty-third Supplemental Indenture dated June 1, 1978 (incorporated by reference to Exhibit 2(c), File No. 2-61611).	X
4.4.20	Twenty-fourth Supplemental Indenture dated May 15, 1979 (incorporated by reference to Exhibit 2(d), File No. 2-64189).	X
4.4.21	Twenty-fifth Supplemental Indenture dated November 1, 1979 (incorporated by reference to Exhibit 2(c), File No. 2-65514).	X
4.4.22	Twenty-sixth Supplemental Indenture dated November 1, 1979 (incorporated by reference to Exhibit 2(c), File No. 2-66851).	X
4.4.23	Twenty-seventh Supplemental Indenture dated April 1, 1980 (incorporated by reference to Exhibit 2 (d), File No. 2-66851).	X
4.4.24	Twenty-eighth Supplemental Indenture dated October 1, 1980 (incorporated by reference to Exhibit 4(b)-1, File No. 2-81299).	X
4.4.25	Twenty-ninth Supplemental Indenture dated October 1, 1980 (incorporated by reference to Exhibit 4(b)-2, File No. 2-81299).	X
4.4.26	Thirtieth Supplemental Indenture dated December 1, 1982 (incorporated by reference to Exhibit 4(b)- 3, File No. 2-81299).	X
4.4.27	Thirty-first Supplemental Indenture dated March 15, 1983 (incorporated by reference to Exhibit 4(c)-1, File No. 2-95505).	X
4.4.28	Thirty-second Supplemental Indenture dated March 15, 1983 (incorporated by reference to Exhibit 4(c)-2, File No. 2-95505).	X

EXHIBITS

4.4.29	Thirty-third Supplemental Indenture dated December 1, 1983 (incorporated by reference to Exhibit 4(c)-3, File No. 2-95505).	X
4.4.30	Thirty-fourth Supplemental Indenture dated December 15, 1983 (incorporated by reference to Exhibit 4(c)-4, File No. 2-95505).	X
4.4.31	Thirty-fifth Supplemental Indenture dated April 1, 1984 (incorporated by reference to Exhibit 4(c)-5, File No. 2-95505).	X
4.4.32	Thirty-sixth Supplemental Indenture dated June 1, 1984 (incorporated by reference to Exhibit 4(c)-6, File No. 2-95505).	X
4.4.33	Thirty-seventh Supplemental Indenture dated June 1, 1984 (incorporated by reference to Exhibit 4(c)-7, File No. 2-95505).	X
4.4.34	Thirty-eighth Supplemental Indenture dated June 1, 1984 (incorporated by reference to Exhibit 4(c)- 8, File No. 2-95505).	X
4.4.35	Thirty-ninth Supplemental Indenture dated April 1, 1985 (incorporated by reference to Exhibit 4(b), File No. 33-25560).	X
4.4.36	Fortieth Supplemental Indenture dated October 1, 1985 (incorporated by reference to Exhibit 4(c), File No. 33-25560).	X
4.4.37	Forty-first Supplemental Indenture dated March 1, 1986 (incorporated by reference to Exhibit 4(d), File No. 33-25560).	X
4.4.38	Forty-second Supplemental Indenture dated July 1, 1986 (incorporated by reference to Exhibit 4(e), File No. 33-25560).	X
4.4.39	Forty-third Supplemental Indenture dated January 1, 1987 (incorporated by reference to Exhibit 4(f), File No. 33-25560).	X
4.4.40	Forty-fourth Supplemental Indenture dated December 1, 1987 (incorporated by reference to Exhibit 4(g), File No. 33-25560).	X
4.4.41	Forty-fifth Supplemental Indenture dated September 1, 1988 (incorporated by reference to Exhibit 4(h), File No. 33-25560).	X
4.4.42	Forty-sixth Supplemental Indenture dated April 1, 1989 (incorporated by reference to Exhibit 4(b), File No. 33-33431).	X
4.4.43	Forty-seventh Supplemental Indenture dated August 1, 1989 (incorporated by reference to Exhibit 4(c), File No. 33-33431).	X
4.4.44	Forty-eighth Supplemental Indenture dated November 15, 1990 (incorporated by reference to Exhibit 4(b), File No. 33-38298).	X
4.4.45	Forty-ninth Supplemental Indenture dated November 15, 1990 (incorporated by reference to Exhibit 4(c), File No. 33-38298).	X
4.4.46	Fiftieth Supplemental Indenture dated February 15, 1991 (incorporated by reference to Exhibit 4(h), File No. 33-42869).	X
4.4.47	Fifty-first Supplemental Indenture dated April 1, 1991 (incorporated by reference to Exhibit 4(i), File No. 33-42869).	X
4.4.48	Fifty-second Supplemental Indenture dated September 15, 1991(incorporated by reference to Exhibit 4(e), File No. 33-48607).	X
4.4.49	Fifty-third Supplemental Indenture dated January 1, 1992 (incorporated by reference to Exhibit 4(f), File No. 33-48607).	X
4.4.50	Fifty-fourth Supplemental Indenture dated April 15, 1992 (incorporated by reference to Exhibit 4 (g), File No. 33-48607).	X
4.4.51	Fifty-fifth Supplemental Indenture dated July 1, 1992 (incorporated by reference to Exhibit 4(e), File No. 33-55060).	X
4.4.52	Fifty-sixth Supplemental Indenture dated October 1, 1992 (incorporated by reference to Exhibit 4(f), File No. 33-55060).	X

EXHIBITS

4.4.53	Fifty-seventh Supplemental Indenture dated February 1, 1993 (incorporated by reference to Exhibit 4(e), File No. 33-60014).	X
4.4.54	Fifty-eighth Supplemental Indenture dated March 1, 1993 (incorporated by reference to Exhibit 4(f), File No. 33-60014).	X
4.4.55	Fifty-ninth Supplemental Indenture dated July 1, 1993 (incorporated by reference to Exhibit 4(a) to Post-Effective Amendment No. 1, File No. 33-38349).	X
4.4.56	Sixtieth Supplemental Indenture dated July 1, 1993 (incorporated by reference to Exhibit 4(b) to Post-Effective Amendment No. 1, File No. 33-38349).	X
4.4.57	Sixty-first Supplemental Indenture dated August 15, 1993 (incorporated by reference to Exhibit 4(e), File No. 33-50597).	X
4.4.58	<u>Sixty-second Supplemental Indenture dated January 15, 1994 (incorporated by reference to Exhibit 4 to Duke Energy Progress' Current Report on Form 8-K dated January 19, 1994, File No. 1-3382).</u>	X
4.4.59	<u>Sixty-third Supplemental Indenture dated May 1, 1994 (incorporated by reference to Exhibit 4(f) for Duke Energy Progress' Form S-3, File No. 033-57835).</u>	X
4.4.60	<u>Sixty-fourth Supplemental Indenture dated August 15, 1997 (incorporated by reference to Exhibit to Duke Energy Progress' Current Report on Form 8-K dated August 26, 1997, File No. 1-3382).</u>	X
4.4.61	<u>Sixty-fifth Supplemental Indenture dated April 1, 1998 (incorporated by reference to Exhibit 4(b) for Duke Energy Progress' Registration Statement on Form S-3 filed December 18, 1998, File No. 333-69237).</u>	X
4.4.62	<u>Sixty-sixth Supplemental Indenture dated March 1, 1999 (incorporated by reference to Exhibit 4(c) to Duke Energy Progress' Current Report on Form 8-K filed on March 19, 1999, File No. 1-3382).</u>	X
4.4.63	<u>Form of Carolina Power & Light Company First Mortgage Bond, 6.80% Series Due August 15, 2007 (incorporated by reference to Exhibit 4 to Duke Energy Progress' Form 10-Q for the period ended September 30, 1998, File No. 1-3382).</u>	X
4.4.64	<u>Sixty-eighth Supplemental Indenture dated April 1, 2000 (incorporated by reference to Exhibit No. 4(b) to Duke Energy Progress' Current Report on Form 8-K filed on April 20, 2000, File No. 1-3382).</u>	X
4.4.65	<u>Sixty-ninth Supplemental Indenture dated June 1, 2000 (incorporated by reference to Exhibit No. 4b(2) to Duke Energy Progress' Annual Report on Form 10-K for the year ended December 31, 2000, filed on March 29, 2001, File No. 1-3382).</u>	X
4.4.66	<u>Seventieth Supplemental Indenture dated July 1, 2000 (incorporated by reference to Exhibit 4b(3) to Duke Energy Progress' Annual Report on Form 10-K for the year ended December 31, 2000, filed on March 29, 2001, File No. 1-3382).</u>	X
4.4.67	<u>Seventy-first Supplemental Indenture dated February 1, 2002 (incorporated by reference to Exhibit 4b(2) to Duke Energy Progress' Annual Report on Form 10-K for the year ended December 31, 2001, filed on March 28, 2002, File No. 1-3382 and 1-15929).</u>	X
4.4.68	<u>Seventy-second Supplemental Indenture, dated as of September 1, 2003 (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on September 12, 2003, File No. 1-3382).</u>	X
4.4.69	<u>Seventy-third Supplemental Indenture, dated as of March 1, 2005 (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on March 22, 2005, File No. 1-3382).</u>	X
4.4.70	<u>Seventy-fourth Supplemental Indenture, dated as of November 1, 2005 (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on November 30, 2005, File No. 1-3382).</u>	X

EXHIBITS

4.4.71	<u>Seventy-fifth Supplemental Indenture, dated as of March 1, 2008 (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on March 13, 2008, File No. 1-3382).</u>	X
4.4.72	<u>Seventy-sixth Supplemental Indenture, dated as of January 1, 2009 (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on January 15, 2009, File No. 1-3382).</u>	X
4.4.73	<u>Seventy-seventh Supplemental Indenture, dated as of June 18, 2009 (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on June 23, 2009, File No. 1-3382).</u>	X
4.4.74	<u>Seventy-eighth Supplemental Indenture, dated as of September 1, 2011 (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on September 15, 2011, File No. 1-3382).</u>	X
4.4.75	<u>Seventy-ninth Supplemental Indenture, dated as of May 1, 2012 (incorporated by reference to Exhibit 4 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on May 18, 2012, File No. 1-3382).</u>	X
4.4.76	<u>Eightieth Supplemental Indenture, dated as of March 1, 2013 (incorporated by reference to Exhibit 4.1 to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Current Report on Form 8-K filed on March 12, 2013, File No. 1-3382).</u>	X
4.4.77	<u>Eighty-second Supplemental Indenture, dated as of March 1, 2014, between Duke Energy Progress, Inc. and The Bank of New York Mellon (formerly Irving Trust Company) and Tina D. Gonzalez (successor to Frederick G. Herbst) and forms of global notes (incorporated by reference to Exhibit 4.1 to Duke Energy Progress, Inc.'s Current Report on Form 8-K filed on March 6, 2014, File No. 1-3382).</u>	X
4.4.78	<u>Eighty-third Supplemental Indenture, dated as of November 1, 2014, between Duke Energy Progress, Inc. and The Bank of New York Mellon (formerly Irving Trust Company) and Tina D. Gonzalez (successor to Frederick G. Herbst) and forms of global notes (incorporated by reference to Exhibit 4.1 to Duke Energy Progress, Inc.'s Current Report on Form 8-K filed on November 20, 2014, File No. 1-3382).</u>	X
4.4.79	<u>Eighty-fifth Supplemental Indenture, dated as of August 1, 2015 (incorporated by reference to Exhibit 4.1 to Duke Energy Progress, LLC's Current Report on Form 8-K filed on August 13, 2015, File No. 1-3382).</u>	X
4.4.80	<u>Eighty-sixth Supplemental Indenture, dated as of September 1, 2016 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 16, 2016, File No. 1-15929).</u>	X
4.4.81	<u>Eighty-seventh Supplemental Indenture, dated as of September 1, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 8, 2017, File No. 1-3382).</u>	X
4.4.82	<u>Eighty-ninth Supplemental Indenture (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on March 7, 2019, File no. 1-3382).</u>	X
4.4.83	<u>Ninetieth Supplemental Indenture, dated as of August 1, 2020 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 20, 2020, File No. 1-3382).</u>	X
4.4.84	<u>First Supplemental Indenture, dated as of August 1, 2020 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on August 20, 2020, File No. 1-3382).</u>	X

EXHIBITS

4.5	<u>Indenture (for Debt Securities) between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and The Bank of New York Mellon (successor in interest to The Chase Manhattan Bank), as Trustee (incorporated by reference to Exhibit 4(a) to registrant's Current Report on Form 8-K filed on November 5, 1999, File No. 1-3382).</u>	X
4.6	<u>Indenture (for [Subordinated] Debt Securities) (open ended) (incorporated by reference to Exhibit 4(a)(2) to Duke Energy Progress, Inc.'s (formerly Carolina Power & Light Company (d/b/a Progress Energy Carolinas, Inc.)) Registration Statement on Form S-3 filed on November 18, 2008, File No. 333-155418).</u>	X
4.7	Indenture (for First Mortgage Bonds) between Duke Energy Florida, Inc. (formerly Florida Power Corporation) and The Bank of New York Mellon (as successor to Guaranty Trust Company of New York and The Florida National Bank of Jacksonville), as Trustee, dated as of January 1, 1944, (incorporated by reference to Exhibit B-18 to registrant's Form A-2, File No. 2-5293).	X
4.7.1	Seventh Supplemental Indenture (incorporated by reference to Exhibit 4(b) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 27, 1991, File No. 33-16788).	X
4.7.2	Eighth Supplemental Indenture (incorporated by reference to Exhibit 4(c) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 27, 1991, File No. 33-16788).	X
4.7.3	Sixteenth Supplemental Indenture (incorporated by reference to Exhibit 4(d) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 27, 1991, File No. 33-16788).	X
4.7.4	Twenty-ninth Supplemental Indenture (incorporated by reference to Exhibit 4(c) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on September 17, 1982, File No. 2-79832).	X
4.7.5	<u>Thirty-eighth Supplemental Indenture, dated as of July 25, 1994 (incorporated by reference to exhibit 4(f) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation) Registration Statement on Form S-3 filed on August 29, 1994, File No. 33-55273).</u>	X
4.7.6	<u>Forty-first Supplemental Indenture, dated as of February 1, 2003 (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Duke Energy Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on February 21, 2003, File No. 1-3274).</u>	X
4.7.7	<u>Forty-second Supplemental Indenture, dated as of April 1, 2003 (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Quarterly Report on Form 10-Q for the quarter ended June 30, 2003, filed on August 11, 2003, File No. 1-3274).</u>	X
4.7.8	<u>Forty-third Supplemental Indenture, dated as of November 1, 2003 (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on November 21, 2003, File No. 1-3274).</u>	X
4.7.9	<u>Forty-fourth Supplemental Indenture, dated as of August 1, 2004 (incorporated by reference to Exhibit 4(m) to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Annual Report on Form 10-K for the year ended December 31, 2004, filed on March 16, 2005, File No. 1-3274).</u>	X
4.7.10	<u>Forty-sixth Supplemental Indenture, dated as of September 1, 2007 (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on September 19, 2007, File No. 1-3274).</u>	X
4.7.11	<u>Forty-seventh Supplemental Indenture, dated as of December 1, 2007 (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on December 13, 2007, File No. 1-3274).</u>	X

EXHIBITS

4.7.12	Forty-eighth Supplemental Indenture, dated as of June 1, 2008 (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on June 18, 2008, File No. 1-3274).	X
4.7.13	Forty-ninth Supplemental Indenture, dated as of March 1, 2010 (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on March 25, 2010, File No. 1-3274).	X
4.7.14	Fiftieth Supplemental Indenture, dated as of August 11, 2011 (incorporated by reference to Exhibit 4 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on August 18, 2011, File No. 1-3274).	X
4.7.15	Fifty-first Supplemental Indenture, dated as of November 1, 2012 (incorporated by reference to Exhibit 4.1 to Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Current Report on Form 8-K filed on November 20, 2012, File No. 1-3274).	X
4.7.16	Fifty-third Supplemental Indenture, dated as of September 1, 2016 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 9, 2016, File No. 1-03274).	X
4.7.17	Fifty-fifth Supplemental Indenture, dated as of June 1, 2018 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on June 21, 2018, File No. 1-3274).	X
4.7.18	Fifty-sixth Supplemental Indenture, dated as of November 1, 2019 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on November 26, 2019, File No. 1-3274).	X
4.7.19	Fifty-seventh Supplemental Indenture, dated as of June 1, 2020 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on June 11, 2020, File No. 1-3274).	X
4.8	Indenture (for Debt Securities) between Duke Energy Florida, Inc. (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) and The Bank of New York Mellon Trust Company, National Association (successor in interest to J.P. Morgan Trust Company, National Association), as Trustee, dated as of December 7, 2005 (incorporated by reference to Exhibit 4(a) to registrant's Current Report on Form 8-K filed on December 13, 2005, File No. 1-3274).	X
4.8.1	First Supplemental Indenture, dated as of December 12, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on December 12, 2017, File No. 1-03274).	X
4.8.2	Second Supplemental Indenture, dated as of November 26, 2019 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on November 26, 2019, File No. 1-3274).	X
4.9	Indenture (for [Subordinated] Debt Securities) (open ended) (incorporated by reference to Exhibit 4(a)(2) Duke Energy Florida, Inc.'s (formerly Florida Power Corporation (d/b/a Progress Energy Florida, Inc.)) Registration Statement on Form S-3 filed on November 18, 2008, File No. 333-155418).	X
4.10	Original Indenture (Unsecured Debt Securities) between Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company) and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of May 15, 1995 (incorporated by reference to Exhibit 3 to registrant's Form 8-A filed on July 27, 1995, File No. 1-1232).	X
4.10.1	First Supplemental Indenture, dated as of June 1, 1995 (incorporated by reference to Exhibit 4 B to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Quarterly Report on Form 10-Q for the quarter ended June 30, 1995, filed on August 11, 1995, File No. 1-1232).	X

EXHIBITS

4.10.2	<u>Seventh Supplemental Indenture, dated as of June 15, 2003 (incorporated by reference to Exhibit 4.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Quarterly Report on Form 10-Q for the quarter ended June 30, 2003, filed on August 13, 2003, File No. 1-1232).</u>	X
4.11	Original Indenture (First Mortgage Bonds) between Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company) and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of August 1, 1936 (incorporated by reference to an exhibit to registrant's Registration Statement No. 2-2374).	X
4.11.1	<u>Fortieth Supplemental Indenture, dated as of March 23, 2009 (incorporated by reference to Exhibit 4.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Current Report on Form 8-K filed on March 24, 2009, File No. 1-1232).</u>	X
4.11.2	<u>Forty-second Supplemental Indenture, dated as of September 6, 2013 (incorporated by reference to Exhibit 4.1 to Duke Energy Ohio, Inc.'s (formerly The Cincinnati Gas & Electric Company) Current Report on Form 8-K filed on September 6, 2013, File No. 1-1232).</u>	X
4.11.3	<u>Forty-fourth Supplemental Indenture, dated as of June 23, 2016 (incorporated by reference to Exhibit 4.1 registrant's Current Report on Form 8-K filed on June 23, 2016, File No. 1-1232).</u>	X
4.11.4	<u>Forty-fifth Supplemental Indenture, dated as of March 27, 2017 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on March 27, 2017, File No. 1-01232).</u>	X
4.11.5	<u>Forty-sixth Supplemental Indenture, dated as of January 8, 2019 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on January 8, 2019, File No. 1-1232).</u>	X
4.11.6	<u>Forty-seventh Supplemental Indenture, dated as of May 21, 2020 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on May 21, 2020, File No. 1-1232).</u>	X
4.12	<u>Indenture between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and The Bank of New York Mellon Trust Company, N.A., as Successor Trustee, dated as of November 15, 1996 (incorporated by reference to Exhibit 4(v) to the Cinergy Corp. Form 10-K for the year ended December 31, 1996, filed on March 27, 1997, File No. 1-11377).</u>	X
4.12.1	<u>Third Supplemental Indenture, dated as of March 15, 1998 (incorporated by reference to Exhibit 4-w to Cinergy Corp.'s Annual Report on Form 10-K for the year ended December 31, 1997, filed on March 27, 1998, File No. 1-11377).</u>	X
4.12.2	<u>Eighth Supplemental Indenture, dated as of September 23, 2003 (incorporated by reference to Exhibit 4.2 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Quarterly Report on Form 10-Q for the quarter ended September 30, 2003, filed on November 13, 2003, File No. 1-3543).</u>	X
4.12.3	<u>Ninth Supplemental Indenture, dated as of October 21, 2005 (incorporated by reference to Exhibit 4.7.3 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633).</u>	X
4.12.4	<u>Tenth Supplemental Indenture, dated as of June 9, 2006 (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on June 15, 2006, File No. 1-3543).</u>	X
4.13	Original Indenture (First Mortgage Bonds) between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Deutsche Bank National Trust Company, as Successor Trustee, dated as of September 1, 1939, (filed as an exhibit in File No. 70-258).	X
4.13.1	Tenth Supplemental Indenture, dated as of July 1, 1952, (filed as an exhibit in File No. 2-9687).	X
4.13.2	Twenty-third Supplemental Indenture, dated as of January 1, 1977, (filed as an exhibit in File No. 2-57828).	X

EXHIBITS

4.13.3	Twenty-fifth Supplemental Indenture, dated as of September 1, 1978, (filed as an exhibit in File No. 2-62543).	X
4.13.4	Twenty-sixth Supplemental Indenture, dated as of September 1, 1978, (filed as an exhibit in File No. 2-62543).	X
4.13.5	Thirtieth Supplemental Indenture, dated as of August 1, 1980, (filed as an exhibit in File No. 2-68562).	X
4.13.6	Thirty-fifth Supplemental Indenture, dated as of March 30, 1984, (filed as an exhibit to registrant's Annual Report on Form 10-K for the year ended December 31, 1984, File No. 1-3543).	X
4.13.7	Forty-sixth Supplemental Indenture, dated as of June 1, 1990, (filed as an exhibit to registrant's Annual Report on Form 10-K for the year ended December 31, 1991, File No. 1-3543).	X
4.13.8	Forty-seventh Supplemental Indenture, dated as of July 15, 1991, (filed as an exhibit to registrant's Annual Report on Form 10-K for the year ended December 31, 1991, File No. 1-3543).	X
4.13.9	Forty-eighth Supplemental Indenture, dated as of July 15, 1992, (filed as an exhibit to registrant's Annual Report on Form 10-K for the year ended December 31, 1992, File No. 1-3543).	X
4.13.10	<u>Fifty-second Supplemental Indenture, dated as of April 30, 1999 (incorporated by reference to Exhibit 4 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Quarterly Report on Form 10-Q for the quarter ended March 31, 1999, filed on May 13, 1999, File No. 1-3543).</u>	X
4.13.11	<u>Fifty-seventh Supplemental Indenture, dated as of August 21, 2008 (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report Form 8-K filed on August 21, 2008, File No. 1-3543).</u>	X
4.13.12	<u>Fifty-eighth Supplemental Indenture, dated as of December 19, 2008 (incorporated by reference to Exhibit 4.8.12 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633-02).</u>	X
4.13.13	<u>Fifty-ninth Supplemental Indenture, dated as of March 23, 2009 (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on March 24, 2009, File No. 1-3543).</u>	X
4.13.14	<u>Sixtieth Supplemental Indenture, dated as of June 1, 2009 (incorporated by reference to Exhibit 4.8.14 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633-02).</u>	X
4.13.15	<u>Sixty-first Supplemental Indenture, dated as of October 1, 2009 (incorporated by reference to Exhibit 4.8.15 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633-02).</u>	X
4.13.16	<u>Sixty-second Supplemental Indenture, dated as of July 9, 2010 (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on July 9, 2010, File No. 1-3543).</u>	X
4.13.17	<u>Sixty-third Supplemental Indenture, dated as of September 23, 2010 (incorporated by reference to Exhibit 4.8.17 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 29, 2010, File No. 333-169633-02).</u>	X
4.13.18	<u>Sixty-fourth Supplemental Indenture, dated as of December 1, 2011 (incorporated by reference to Exhibit 4(d)(2)(xviii) to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Registration Statement on Form S-3 filed on September 30, 2013, File No. 333-191462-03).</u>	X
4.13.19	<u>Sixty-fifth Supplemental Indenture, dated as of March 15, 2012 (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on March 15, 2012, File No. 1-3543).</u>	X

EXHIBITS

4.13.20	<u>Sixty-sixth Supplemental Indenture, dated as of July 11, 2013 (incorporated by reference to Exhibit 4.1 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Current Report on Form 8-K filed on July 11, 2013, File No. 1-3543).</u>	X
4.13.21	<u>Sixty-seventh Supplemental Indenture, dated as of January 1, 2016, between Duke Energy Indiana, Inc. and Deutsche Bank National Trust Company, as Trustee, supplementing and amending the Indenture of Mortgage or Deed of Trust, dated September 1, 1939, between Duke Energy Indiana, Inc. and Deutsche Bank National Trust Company, as Trustee (incorporated by reference to Exhibit 4.2 to Duke Energy Indiana, LLC's (formerly PSI Energy, Inc.) Quarterly Report on Form 10-Q for the quarter ended March 31, 2016, filed on May 5, 2016, File No. 1-3543).</u>	X
4.13.22	<u>Sixty-eighth Supplemental Indenture, dated as of May 12, 2016 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on May 12, 2016, File No. 1-3543).</u>	X
4.13.23	<u>Sixty-ninth Supplemental Indenture, dated as of September 27, 2019 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 27, 2019, File No. 1-3543).</u>	X
4.13.24	<u>Seventieth Supplemental Indenture, dated as of March 12, 2020 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on March 12, 2020, File No. 1-3543).</u>	X
4.14	Repayment Agreement between Duke Energy Ohio, Inc. (formerly The Cincinnati Gas & Electric Company) and The Dayton Power and Light Company, dated as of December 23, 1992, (filed with registrant's Annual Report on Form 10-K for the year ended December 31, 1992, File No. 1-1232).	X
4.15	<u>Unsecured Promissory Note between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and the Rural Utilities Service, dated as of October 14, 1998 (incorporated by reference to Exhibit 4 to registrant's Annual Report on Form 10-K for the year ended December 31, 1998, filed on March 8, 1999, File No. 1-3543).</u>	X
4.16	<u>6.302% Subordinated Note between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Cinergy Corp., dated as of February 5, 2003 (incorporated by reference to Exhibit 4(yyy) to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2003, filed on May 12, 2003, File No. 1-3543).</u>	X
4.17	<u>6.403% Subordinated Note between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Cinergy Corp., dated as of February 5, 2003 (incorporated by reference to Exhibit 4(zzz) to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2003, filed on May 12, 2003, File No. 1-3543).</u>	X
4.18	<u>Contingent Value Obligation Agreement between Progress Energy, Inc. (formerly CP&L Energy, Inc.) and The Chase Manhattan Bank, as Trustee, dated as of November 30, 2000 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on December 1, 2000, File No. 1-3382).</u>	X
4.19	<u>Form of 3.47% Series A Senior Notes due July 16, 2027 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on March 29, 2012, File No. 1-06196).</u>	X
4.20	<u>Form of 3.57% Series B Senior Notes due July 16, 2027 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on March 29, 2012, File No. 1-06196).</u>	X
4.21	<u>Form of 4.65% Senior Notes due 2043 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on August 1, 2013, File No. 1-06196).</u>	X
4.22	<u>Form of 4.10% Senior Notes due 2034 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on September 18, 2014, File No. 1-06196).</u>	X
4.23	<u>Form of 3.60% Senior Notes due 2025 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on September 14, 2015, File No. 1-06196).</u>	X

EXHIBITS

4.24	<u>Form of 3.64% Senior Notes due 2046 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on July 28, 2016, File No. 1-06196).</u>	X
4.25	<u>Form of 4.24% Series B Senior Notes due June 6, 2021 (incorporated by reference to Exhibit 4.2 to registrant's Current Report on Form 8-K filed on May 12, 2011, File No. 1-06196).</u>	X
4.26	<u>Indenture, dated as of April 1, 1993, between Piedmont and The Bank of New York Mellon Trust Company, N.A. (as successor to Citibank, N.A.), Trustee (incorporated by reference to Exhibit 4.1 to registrant's Registration Statement on Form S-3 filed on May 16, 1995, File No. 33-59369).</u>	X
4.26.1	<u>Second Supplemental Indenture, dated as of June 15, 2003, between Piedmont and Citibank, N.A., Trustee (incorporated by reference to Exhibit 4.3 to registrant's Registration Statement on Form S-3 filed on June 19, 2003, File No. 333-106268).</u>	X
4.26.2	<u>Fourth Supplemental Indenture, dated as of May 6, 2011, between Piedmont Natural Gas Company, Inc. and The Bank of New York Mellon Trust Company, N.A., as trustee (incorporated by reference to Exhibit 4.2 to registrant's Registration Statement on Form S-3-ASR filed on July 7, 2011, File No. 333-175386).</u>	X
4.26.3	<u>Fifth Supplemental Indenture, dated August 1, 2013, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on August 1, 2013, File No. 1-06196).</u>	X
4.26.4	<u>Sixth Supplemental Indenture, dated September 18, 2014, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 18, 2014, File No. 1-06196).</u>	X
4.26.5	<u>Seventh Supplemental Indenture, dated September 14, 2015, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on September 14, 2015, File No. 1-06196).</u>	X
4.26.6	<u>Eighth Supplemental Indenture, dated July 28, 2016, between the Company and The Bank of New York Mellon Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on July 28, 2016, File No. 1-06196).</u>	X
4.26.7	<u>Ninth Supplemental Indenture, dated as of May 24, 2019 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on May 24, 2019, File No. 1-6196).</u>	X
4.26.8	<u>Tenth Supplemental Indenture, dated as of May 21, 2020 (incorporated by reference to Exhibit 4.1 to registrant's Current Report on Form 8-K filed on May 21, 2020, File No. 1-6196).</u>	X
4.27	<u>Medium-Term Note, Series A, dated as of October 6, 1993 (incorporated by reference to Exhibit 4.8 to registrant's Annual Report on Form 10-K for the year ended October 31, 1993, File No. 1-06196).</u>	X
4.28	<u>Medium-Term Note, Series A, dated as of September 19, 1994 (incorporated by reference to Exhibit 4.9 to registrant's Annual Report on Form 10-K for the year ended October 31, 1994, File No. 1-06196).</u>	X
4.29	<u>Form of 6% Medium-Term Note, Series E, dated as of December 19, 2003 (incorporated by reference to Exhibit 99.2 to registrant's Current Report on Form 8-K filed on December 23, 2003, File No. 1-06196).</u>	X
4.30	<u>Form of Master Global Note (incorporated by reference to Exhibit 4.4 to registrant's Registration Statement on Form S-3 filed on April 30, 1997, File No. 333-26161).</u>	X
4.31	<u>Pricing Supplement of Medium-Term Notes, Series B, dated October 3, 1995 (incorporated by reference to Exhibit 4.10 to registrant's Annual Report on Form 10-K for the year ended October 31, 1995, File No. 1-06196).</u>	X

EXHIBITS

4.32	Pricing Supplement of Medium-Term Notes, Series B, dated October 4, 1996 (incorporated by reference to Exhibit 4.11 to registrant's Annual Report on Form 10-K for the year ended October 31, 1996, File No. 1-06196).		X
4.33	Pricing Supplement of Medium-Term Notes, Series C, dated September 15, 1999 (incorporated by reference to Rule 424(b)(3) Pricing Supplement to Form S-3 Registration Statement Nos. 33-59369 and 333-26161).		X
4.34	Agreement of Resignation, Appointment and Acceptance dated as of March 29, 2007, by and among Piedmont Natural Gas Company, Inc., Citibank, N.A., and The Bank of New York Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended April 30, 2007, filed on June 8, 2007, File No. 1-06196).		X
10.1	Agreements with Piedmont Electric Membership Corporation, Rutherford Electric Membership Corporation and Blue Ridge Electric Membership Corporation (incorporated by reference to Exhibit 10.15 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006, filed on August 9, 2006, File No. 1-32853).	X	
10.2	Asset Purchase Agreement between Saluda River Electric Cooperative, Inc., as Seller, and Duke Energy Carolinas, LLC, as Purchaser, dated as of December 20, 2006 (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on December 27, 2006, File No. 1-4928).	X	
10.3	Settlement between Duke Energy Corporation, Duke Energy Carolinas, LLC and the U.S. Department of Justice resolving Duke Energy's used nuclear fuel litigation against the U.S. Department of Energy, dated as of March 6, 2007 (incorporated by reference to Item 8.01 to registrant's Current Report on Form 8-K filed on March 12, 2007, File No. 1-4928).	X	
10.4	Letter Agreement between Georgia Natural Gas Company and Piedmont Energy Company dated February 12, 2016 (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on February 18, 2016, File No. 1-06196).		X
10.5	Assignment of Membership Interests dated as of October 3, 2016 between Piedmont ACP Company, LLC and Dominion Atlantic Coast Pipeline, LLC, (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on October 7, 2016, File No. 1-06196).		X
10.6	Agreements between Piedmont Electric Membership Corporation, Rutherford Electric Membership Corporation and Blue Ridge Electric Membership Corporation (incorporated by reference to Exhibit 10.15 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2006, filed on August 9, 2006, File No. 1-32853).	X	
10.7	Conveyance and Assignment Agreement, dated as of October 3, 2016, by and between Piedmont Energy Company and Georgia Natural Gas Company (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on October 3, 2016, File No. 1-06196).		X
10.8	Engineering, Procurement and Construction Management Agreement between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Bechtel Power Corporation, dated as of December 15, 2008 (incorporated by reference to Exhibit 10.16 to registrant's Annual Report on Form 10-K for the year ended December 31, 2008, filed on March 13, 2009, File No. 1-3543). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)		X

EXHIBITS

10.9	Formation and Sale Agreement between Duke Ventures, LLC, Crescent Resources, LLC, Morgan Stanley Real Estate Fund V U.S. L.P., Morgan Stanley Real Estate Fund V Special U.S., L.P., Morgan Stanley Real Estate Investors V U.S., L.P., MSP Real Estate Fund V, L.P., and Morgan Stanley Strategic Investments, Inc., dated as of September 7, 2006 (incorporated by reference to Exhibit 10.3 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2006, filed on November 9, 2006, File No. 1-32853).	X						
10.10	Operating Agreement of Pioneer Transmission, LLC (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2008, filed on November 7, 2008, File No. 1-32853).	X						
10.11**	Amended and Restated Duke Energy Corporation Directors' Saving Plan, dated as of January 1, 2014 (incorporated by reference to Exhibit 10.32 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2013, filed on February 28, 2014, File No. 1-32853).	X						
10.12	Engineering, Procurement and Construction Management Agreement between Duke Energy Indiana, LLC (formerly PSI Energy, Inc.) and Bechtel Power Corporation, dated as of December 15, 2008 (incorporated by reference to Item 1.01 to registrant's Current Report on Form 8-K filed on December 19, 2008, File Nos. 1-32853 and 1-3543). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)	X					X	
10.13**	Duke Energy Corporation Executive Severance Plan (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on January 13, 2011, File No. 1-32853).	X						
10.14	\$6,000,000,000 Five-Year Credit Agreement between Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Carolina Power and Light Company d/b/a Duke Energy Progress, Inc. and Florida Power Corporation, d/b/a Duke Energy Florida, Inc., as Borrowers, the lenders listed therein, Wells Fargo Bank, National Association, as Administrative Agent, Bank of America, N.A. and The Royal Bank of Scotland plc, as Co-Syndication Agents and Bank of China, New York Branch, Barclays Bank PLC, Citibank, N.A., Credit Suisse AG, Cayman Islands Branch, Industrial and Commercial Bank of China Limited, New York Branch, JPMorgan Chase Bank, N.A. and UBS Securities LLC, as Co-Documentation Agents, dated as of November 18, 2011 (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on November 25, 2011, File Nos. 1-32853, 1-4928, 1-1232 and 1-3543).	X	X			X	X	
10.14.1	Amendment No. 1 and Consent between Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Duke Energy Progress, Inc., Duke Energy Florida, Inc., and Wells Fargo Bank, National Association, dated as of December 18, 2013 (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on December 23, 2013, File Nos. 1-32853, 1-4928, 1-3382, 1-3274, 1-1232 and 1-3543).	X	X		X	X	X	X
10.14.2	Amendment No. 2 and Consent between Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Duke Energy Progress, Inc., and Duke Energy Florida, Inc., the Lenders party hereto, the issuing Lenders party hereto, Wells Fargo Bank, National Association, as Administrative Agent and Swingline Lender, dated as of January 30, 2015 (incorporated by reference to Exhibit 10.1 of registrant's Current Report on Form 8-K filed on February 5, 2015, File Nos. 1-32853, 1-4928, 1-1232, 1-3543, 1-3382 and 1-3274).	X	X		X	X	X	X
10.14.3	Amendment No. 3 and Consent, dated as of March 16, 2017, among the registrants, the Lenders party thereto, the issuing Lenders party thereto, and Wells Fargo Bank, National Association, as Administrative Agent and Swingline Lender (incorporated by reference to Exhibit 10.1 to registrants' Current Report on Form 8-K filed on March 17, 2017, File Nos. 1-32853, 1-04928, 1-03382, 1-03274, 1-01232, 1-03543, 1-06196).	X	X		X	X	X	X

EXHIBITS

10.14.4	Amendment No.4 and Consent, dated as of March 18, 2019, among Duke Energy Corporation, Duke Energy Carolinas, LLC, Duke Energy Ohio, Inc., Duke Energy Indiana, LLC, Duke Energy Kentucky, Inc., Duke Energy Progress, LLC, Duke Energy Florida, LLC, and Piedmont Natural Gas Company, Inc., the Lenders party thereto, the Issuing Lenders party thereto, and Wells Fargo Bank, National Association, as Administrative Agent and Swingline Lender (incorporated by reference to Exhibit 10.1 to registrants' Current Report on Form 8-K filed on March 21, 2019, File Nos. 1-32853, 1-4928, 1-3382, 1-3274, 1-1232, 1-3543, 1-6196).	X	X		X	X	X	X	X
10.14.5	Amendment No. 5 and Consent, dated as of March 16, 2020, among registrants' the Lenders party thereto, the Issuing Lenders party thereto, and Wells Fargo Bank, N.A., as Administrative Agent, and Swingline Lender (incorporated by reference to Exhibit 10.1 to registrants' Current Report on Form 8-K filed on March 17, 2020, File Nos. 1-32853, 1-4928, 1-3382, 1-3274, 1-1232, 1-3543, 1-6196).	X	X		X	X	X	X	X
10.15**	Duke Energy Corporation 2010 Long-Term Incentive Plan (incorporated by reference to Appendix A to registrant's Form DEF 14A filed on March 22, 2010, File No. 1-32853).	X							
10.15.1**	Amendment to Duke Energy Corporation 2010 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.3 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2012, filed on August 8, 2012, File No. 1-32853).	X							
10.16**	Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Appendix C to registrant's DEF 14A filed on March 26, 2015, File No. 1-32853).	X							
10.16.1**	Amendment to Duke Energy Corporation 2015 Long-Term Incentive Plan (incorporated by reference to Exhibit 10.16.1 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2018, filed on February 28, 2019, File No. 1-32853).	X							
10.17**	Restricted Stock Unit Award Agreement (incorporated by reference to Exhibit 10.4 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2017 filed on May 9, 2017, File No. 1-32853).	X							
10.18**	Restricted Stock Unit Award Agreement (incorporated by reference to Exhibit 10.24 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).	X							
10.19**	Performance-Based Retention Award Agreement (incorporated by reference to Exhibit 10.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2017, filed on May 9, 2017, File No. 1-32853).	X							
10.20**	Performance Award Agreement (incorporated by reference to Exhibit 10.3 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2017, filed on May 9, 2017, File No. 1-32853).	X							
10.21**	Performance Award Agreement (incorporated by reference to Exhibit 10.27 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 21, 2018, File No. 1-32853).	X							
10.22**	Performance Share Award Agreement (incorporated by reference to Exhibit 10.2 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended March 31, 2019, filed on May 9, 2019, File No. 1-32853).	X							
10.23**	Performance Award Agreement (incorporated by reference to Exhibit 10.4 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended March 31, 2020, filed on May 12, 2020, File No. 1-32853).	X							
10.24**	Restricted Stock Unit Award Agreement (incorporated by reference to Exhibit 10.3 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended March 31, 2019, filed on May 9, 2019, File No. 1-32853).	X							
10.25	Settlement Agreement between Duke Energy Corporation, the North Carolina Utilities Commission Staff and the North Carolina Public Staff, dated as of November 28, 2012 (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on November 29, 2012, File No. 1-32853).	X							

EXHIBITS

10.26	Settlement Agreement between Duke Energy Corporation and the North Carolina Attorney General, dated as of December 3, 2012 (incorporated by reference Item 7.01 to registrant's Current Report on Form 8-K filed on December 3, 2012, File No. 1-32853).	X		
10.27	Settlement Agreement between Duke Energy Carolinas, LLC, Duke Energy Progress, LLC, and The North Carolina Department of Environmental Quality, dated as of December 31, 2019 (incorporated by reference to Exhibit 10.1 to registrants' Current Report on Form 8-K filed on January 2, 2020, File Nos. 1-4928, 1-3382).		X	X
10.28	Duke Energy Carolinas Summary of Partial Settlement in North Carolina Rate Case (incorporated by reference to Exhibit 99.1 to registrant's Current Report on Form 8-K filed on March 26, 2020, File Nos. 1-32853, 1-4928, 1-3382).	X	X	X
10.29**	Form of Change-in-Control Agreement (incorporated by reference to Exhibit 10.58 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2012, filed on March 1, 2013, File No. 1-32853).	X		
10.30**	Amended and Restated Duke Energy Corporation Executive Cash Balance Plan, dated as of January 1, 2014 (incorporated by reference to Exhibit 10.52 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2013, filed on February 28, 2014, File No. 1-32852).	X		
10.30.1**	Amended and Restated Duke Energy Corporation Executive Cash Balance Plan, dated as of September 30, 2020 (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on September 25, 2020, File No. 1-32853).	X		
10.31	Purchase, Construction and Ownership Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Municipal Power Agency Number 3 and Exhibits, together with resolution, dated as of December 16, 1981, changing name to North Carolina Eastern Municipal Power Agency, amending letter, dated as of February 18, 1982, and amendment, dated as of February 24, 1982 (incorporated by reference to Exhibit 10(a) to registrant's File No. 33-25560).			X
10.32	Operating and Fuel Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Municipal Power Agency Number 3 and Exhibits, together with resolution, dated as of December 16, 1981, changing name to North Carolina Eastern Municipal Power Agency, amending letters, dated as of August 21, 1981, and December 15, 1981, and amendment, dated as of February 24, 1982 (incorporated by reference to Exhibit 10(b) to registrant's File No. 33-25560).			X
10.33	Power Coordination Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Municipal Power Agency Number 3 and Exhibits, together with resolution, dated as of December 16, 1981, changing name to North Carolina Eastern Municipal Power Agency and amending letter, dated as of January 29, 1982 (incorporated by reference to Exhibit 10(c) to registrant's File No. 33-25560).			X
10.34	Amendment, dated as of December 16, 1982, to Purchase, Construction and Ownership Agreement, dated as of July 30, 1981, between Duke Energy Progress, Inc. (formerly Carolina Power & Light Company) and North Carolina Eastern Municipal Power Agency (incorporated by reference to Exhibit 10(d) to registrant's File No. 33-25560).			X
10.35**	Progress Energy, Inc. 2007 Equity Incentive Plan (incorporated by reference to Exhibit C to registrant's Form DEF 14A filed on March 30, 2007, File No. 1-15929).		X	

EXHIBITS

10.36	<u>Precedent and Related Agreements between Duke Energy Florida, Inc. (formerly Florida Power Corporation d/b/a Progress Energy Florida, Inc. ("PEF")), Southern Natural Gas Company, Florida Gas Transmission Company ("FGT"), and BG LNG Services, LLC ("BG"), including: a) Precedent Agreement between Southern Natural Gas Company and PEF, dated as of December 2, 2004; b) Gas Sale and Purchase Contract between BG and PEF, dated as of December 1, 2004; c) Interim Firm Transportation Service Agreement by and between FGT and PEF, dated as of December 2, 2004; d) Letter Agreement between FGT and PEF, dated as of December 2, 2004, and Firm Transportation Service Agreement between FGT and PEF to be entered into upon satisfaction of certain conditions precedent; e) Discount Agreement between FGT and PEF, dated as of December 2, 2004; f) Amendment to Gas Sale and Purchase Contract between BG and PEF, dated as of January 28, 2005; and g) Letter Agreement between FGT and PEF, dated as of January 31, 2005 (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K/A filed on March 15, 2005, File Nos. 1-15929 and 1-3274). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)</u>	X	X
10.37	<u>Engineering, Procurement and Construction Agreement between Duke Energy Florida, Inc. (formerly Florida Power Corporation d/b/a/ Progress Energy Florida, Inc.), as owner, and a consortium consisting of Westinghouse Electric Company LLC and Stone & Webster, Inc., as contractor, for a two-unit AP1000 Nuclear Power Plant, dated as of December 31, 2008 (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on March 2, 2009, File Nos. 1-15929 and 1-3274). (Portions of the exhibit have been omitted and filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment pursuant to Rule 24b-2 under the Securities Exchange Act of 1934, as amended.)</u>	X	X
10.38**	<u>Employment Agreement between Duke Energy Corporation and Lynn J. Good, dated as of June 17, 2013 (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 18, 2013, File No. 1-32853).</u>	X	
10.38.1**	<u>Amendment to Employment Agreement between Duke Energy Corporation and Lynn J. Good, dated as of June 25, 2015 (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on June 29, 2015, File No. 1-32853).</u>	X	
10.39**	<u>Duke Energy Corporation Executive Short-Term Incentive Plan, dated as of February 25, 2013 (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on May 7, 2013, File No. 1-32853).</u>	X	
10.40**	<u>Duke Energy Corporation 2017 Director Compensation Program Summary (incorporated by reference to Exhibit 10.3 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2017 filed on August 3, 2017, File No. 1-32853).</u>	X	
10.41**	<u>Amended and Restated Duke Energy Corporation Executive Savings Plan, dated as of January 1, 2014 (incorporated by reference to Exhibit 10.82 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2013, filed on February 28, 2014, File No. 1-32853).</u>	X	
10.41.1**	<u>Amendment to Duke Energy Corporation Executive Savings Plan, dated as of January 1, 2014 (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2017, filed on November 3, 2017, File No. 1-32853).</u>	X	
10.41.2**	<u>Amendment to Duke Energy Corporation Executive Savings Plan, dated as of October 1, 2020 (incorporated by reference to Exhibit 10.2 to Duke Energy Corporation's Current Report on Form 8-K filed on September 25, 2020, File No. 1-32853).</u>	X	
10.42	<u>Agreement between Duke Energy SAM, LLC, Duke Energy Ohio, Inc., Duke Energy Commercial Enterprise, Inc. and Dynegy Resource I, LLC, dated as of August 21, 2014 (incorporated by reference to Exhibit 10.61 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2014, filed on March 2, 2015, File No. 1-32853).</u>	X	X

EXHIBITS

10.43	Asset Purchase Agreement between Duke Energy Progress, Inc. and North Carolina Eastern Municipal Power Agency, dated as of September 5, 2014 (incorporated by reference to Exhibit 10.62 to Duke Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2014, filed on March 2, 2015, File No. 1-32853).	X	X
10.44	Accelerated Stock Repurchase Program executed by Goldman, Sachs & Co., and JPMorgan Chase Bank, N.A. on April 6, 2015, under an agreement with Duke Energy Corporation (incorporated by reference to Exhibit 10.1 to Duke Energy Corporation's Current Report on Form 8-K filed on April 6, 2015, File No. 1-32853).	X	
10.45	Plea Agreement between Duke Energy Corporation and the Court of the Eastern District of North Carolina in connection with the May 14, 2015, Dan River Grand Jury Settlement (incorporated by reference to Exhibit 10.3 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2015, filed on August 7, 2015, File No. 1-32853).	X	
10.46	Plea Agreement between Duke Energy Corporation and the Court of the Eastern District of North Carolina in connection with the May 14, 2015, Dan River Grand Jury Settlement (incorporated by reference to Exhibit 10.4 to Duke Energy Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2015, filed on August 7, 2015, File No. 1-32853).	X	
10.47	Purchase and Sale Agreement by and among Duke Energy International Group S.à.r.l., Duke Energy International Brazil Holdings S.à.r.l. and China Three Gorges (Luxembourg) Energy S.à.r.l., dated as of October 10, 2016 (incorporated by reference to Exhibit 2.1 to registrant's Current Report on Form 8-K filed on October 13, 2016, File No. 1-32853).	X	
10.48	Purchase and Sale Agreement by and among Duke Energy Brazil Holdings II, C.V., Duke Energy International Uruguay Investments SRL, Duke Energy International Group S.à.r.l., Duke Energy International España Holdings SL, Duke Energy International Investments No. 2 Ltd., ISQ Enerlam Aggregator, L.P., and Enerlam (UK) Holdings Ltd., dated as of October 10, 2016 (incorporated by reference to Exhibit 2.2. to registrant's Current Report on Form 8-K filed on October 13, 2016, File No. 1-32853).	X	
10.49**	Amended and Restated Employment Agreement, dated May 25, 2012, between Piedmont Natural Gas Company, Inc. and Franklin H. Yoho (incorporated by reference to Exhibits 10.1 and 10.2 to Piedmont Natural Gas Company, Inc.'s Quarterly Report on Form 10-Q for the quarter ended July 31, 2012, filed on September 7, 2012, File No. 1-06196).	X	
10.50**	Severance Agreements with Thomas E. Skains and Franklin H. Yoho, dated September 4, 2007 (incorporated by reference to Exhibits 10.2 and 10.2a to Piedmont Natural Gas Company, Inc.'s Quarterly Report on Form 10-Q for the quarter ended July 31, 2007, filed on September 7, 2007, File No. 1-06196).	X	
10.51**	Piedmont Natural Gas Company, Inc. Incentive Compensation Plan (incorporated by reference to Exhibit 10.64 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016, filed on February 24, 2017, File No. 1-32853).	X	
10.51.1**	First Amendment to Piedmont Natural Gas Company, Inc. Incentive Compensation Plan (incorporated by reference to Exhibit 4.2 to registrant's Registration Statement on Form S-8 filed on October 3, 2016, File No. 1-32853).	X	
10.52**	Waiver of Certain Rights to Terminate for Good Reason between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.66 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016, filed on February 24, 2017, File No. 1-32853).	X	
10.53**	Notice of Non-Renewal of Employment Agreement between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.67 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016, filed on February 24, 2017, File No. 1-32853).	X	

EXHIBITS

10.54**	Retention Award Agreement, dated as of October 24, 2015, between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.68 to registrant's Annual Report on Form 10-K for the year ended December 31, 2016, filed on February 24, 2017, File No. 1-32853).	X	
10.55**	Consulting Agreement, dated as of October 4, 2019, between Duke Energy Corporation and Franklin H. Yoho (incorporated by reference to Exhibit 10.54 to registrant's Annual Report of Form 10-K for the year ended December 31, 2019, filed on February 20, 2020, File No. 1-32853).	X	
10.56	\$1,000,000,000 Credit Agreement, dated as of June 14, 2017, among Duke Energy Corporation, the lenders listed therein, The Bank of Nova Scotia, as Administrative Agent, PNC Bank, National Association, Sumitomo Mitsui Banking Corporation and TD Bank, N.A., as Co-Syndication Agents, and Bank of China, New York Branch, BNP Paribas, Santander Bank, N.A. and U.S. Bank National Association, as Co-Documentation Agents (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on June 14, 2017, File No. 1-32853).	X	
10.57	\$1,000,000,000 Credit Agreement, dated as of May 15, 2019, among Duke Energy Corporation, the Lenders party thereto, The Bank of Nova Scotia, as Administrative Agent, PNC Bank, National Association, Sumitomo Mitsui Banking Corporation and TD Bank, N.A., as Co-Syndication Agents, and Bank of China, New York Branch, BNP Paribas, Santander Bank, N.A., and U.S. Bank, National Association, as Co-Documentation Agents (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on May 16, 2019, File No. 1-32853).	X	
10.58	\$1.5 billion 364-Day Term Loan Credit Agreement, dated as of March 19, 2020, among the registrant, as Borrower, certain Lenders from time to time parties thereto, and PNC Bank, N.A., as Administrative Agent, and registrant's borrowing of the remaining \$500 million under registrant's existing \$1 billion revolving credit facility on March 17, 2020 (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on March 19, 2020, File No. 1-32853).	X	
10.58.1	Joinder Agreement, dated as of March 27, 2020, by and among, the registrant, each of the Incremental Lenders listed therein, and PNC Bank, N.A., as Administrative Agent (incorporated by reference to Exhibit 10.2.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2020, filed on May 12, 2020, File No. 1-32853).	X	
10.59	Note Purchase Agreement, dated as of May 6, 2011, among Piedmont Natural Gas Company, Inc. and the Purchasers party thereto (incorporated by reference to Exhibit 10 to registrant's Current Report on Form 8-K filed on May 12, 2011, File No. 1-06196).		X
10.60	Amended and Restated Limited Liability Company Agreement of Constitution Pipeline Company, LLC dated April 9, 2012, by and among Williams Partners Operating LLC and Cabot Pipeline Holdings LLC (incorporated by reference to Exhibit 10.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 2013, filed on March 6, 2013, File No. 1-06196).		X
10.60.1	First Amendment to Amended and Restated Limited Liability Company Agreement of Constitution Pipeline Company, LLC, dated as of November 9, 2012, by and among Constitution Pipeline Company, LLC, Williams Partners Operating LLC, Cabot Pipeline Holdings LLC, and Piedmont Constitution Pipeline Company, LLC (incorporated by reference to Exhibit 10.2 to registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 2013, filed on March 6, 2013, File No. 1-06196).		X
10.60.2	Second Amendment to Amended and Restated Limited Liability Company Agreement of Constitution Pipeline Company, LLC, dated as of May 29, 2013, by and among Constitution Pipeline Company, LLC, Williams Partners Operating LLC, Cabot Pipeline Holdings LLC, Piedmont Constitution Pipeline Company, LLC, and Capitol Energy Ventures Corp. (incorporated by reference to Exhibit 99.1 to registrant's Current Report on Form 8-K filed on September 4, 2013, File No. 1-06196).		X

EXHIBITS

10.61	Second Amended and Restated Limited Liability Company Agreement of SouthStar Energy Services LLC, dated as of September 1, 2013, by and between Georgia Natural Gas Company and Piedmont Energy Company (incorporated by reference to Exhibit 10.39 to registrant's Annual Report on Form 10-K for the year ended October 31, 2013, filed on December 23, 2013, File No. 1-06196).				X
10.62	Limited Liability Company Agreement of Atlantic Coast Pipeline, LLC, dated as of September 2, 2014, by and between Dominion Atlantic Coast Pipeline, LLC, Duke Energy ACP, LLC, Piedmont ACP Company, LLC, and Maple Enterprise Holdings, Inc. (incorporated by reference to Exhibit 10.35 to registrant's Annual Report on Form 10-K for the year ended October 31, 2014, filed on December 23, 2014, File No. 1-06196).				X
10.63	Engineering, Procurement and Construction Agreement between Duke Energy Business Services, LLC, as agent for and on behalf of Piedmont Natural Gas Company Inc. and Matrix Service, Inc., dated as of April 30, 2019 (incorporated by reference to Exhibit 10.1 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2019, filed on August 6, 2019, File No. 1-06196). (Portions of the exhibit have been omitted for confidentiality.)				X
10.64	Decommissioning Services Agreement between Duke Energy Florida, LLC, and ADP CR3, LLC, and ADP SF1, LLC (incorporated by reference to Exhibit 10.3 to registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2019, filed on August 6, 2019, File No. 2-5293). (Portions of the exhibit have been omitted for confidentiality.)			X	
10.65	Form of Forward Sale Agreement (incorporated by reference to Exhibit 10.1 to registrant's Current Report on Form 8-K filed on November 8, 2019, File No. 1-32853).	X			
10.66	Lease Agreement dated as of December 23, 2019, between the registrant and CGA 525 South Tryon TIC 1, LLC, a Delaware limited liability company, CGA 525 South Tryon TIC 2, LLC, a Delaware limited liability company, and CK 525 South Tryon TIC, LLC, a Delaware limited liability company (incorporated by reference to Exhibit 10.64 to registrant's Annual Report on Form 10-K for the year ended December 31, 2019, filed on February 20, 2020, File No. 1-4928).		X		
10.67	Construction Agency Agreement dated as of December 23, 2019, between the registrant and CGA 525 South Tryon TIC 1, LLC, a Delaware limited liability company, CGA 525 South Tryon TIC 2, LLC, a Delaware limited liability company, and CK 525 South Tryon TIC, LLC, a Delaware limited liability company (incorporated by reference to Exhibit 10.65 to registrant's Annual Report on Form 10-K for the year ended December 31, 2019, filed on February 20, 2020, File No. 1-4928).		X		
*21	List of Subsidiaries	X			
*23.1.1	Consent of Independent Registered Public Accounting Firm.	X			
*23.1.2	Consent of Independent Registered Public Accounting Firm.		X		
*23.1.3	Consent of Independent Registered Public Accounting Firm.			X	
*23.1.4	Consent of Independent Registered Public Accounting Firm.			X	
*23.1.5	Consent of Independent Registered Public Accounting Firm.				X
*23.1.6	Consent of Independent Registered Public Accounting Firm.				X
*23.1.7	Consent of Independent Registered Public Accounting Firm.				X
*24.1	Power of attorney authorizing Lynn J. Good and others to sign the Annual Report on behalf of the registrant and certain of its directors and officers.	X			
*24.2	Certified copy of resolution of the Board of Directors of the registrant authorizing power of attorney.	X			
*31.1.1	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	X			
*31.1.2	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.		X		

EXHIBITS

*31.1.3	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.		X		
*31.1.4	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.			X	
*31.1.5	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X
*31.1.6	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X
*31.1.7	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X
*31.1.8	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X
*31.2.1	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	X			
*31.2.2	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.		X		
*31.2.3	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.			X	
*31.2.4	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.			X	
*31.2.5	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X
*31.2.6	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X
*31.2.7	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X
*31.2.8	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				X
*32.1.1	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.	X			
*32.1.2	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.		X		
*32.1.3	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.			X	
*32.1.4	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.			X	
*32.1.5	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.				X
*32.1.6	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.				X
*32.1.7	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.				X
*32.1.8	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.				X
*32.2.1	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.	X			
*32.2.2	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.		X		

EXHIBITS

*32.2.3	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.									X
*32.2.4	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.								X	
*32.2.5	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.								X	
*32.2.6	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.								X	
*32.2.7	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.								X	
*32.2.8	Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.									X
*101.INS	XBRL Instance Document (this does not appear in the Interactive Data File because it's XBRL tags are embedded within the Inline XBRL document).	X	X	X	X	X	X	X	X	X
*101.SCH	XBRL Taxonomy Extension Schema Document	X	X	X	X	X	X	X	X	X
*101.CAL	XBRL Taxonomy Calculation Linkbase Document	X	X	X	X	X	X	X	X	X
*101.LAB	XBRL Taxonomy Label Linkbase Document	X	X	X	X	X	X	X	X	X
*101.PRE	XBRL Taxonomy Presentation Linkbase Document	X	X	X	X	X	X	X	X	X
*101.DEF	XBRL Taxonomy Definition Linkbase Document	X	X	X	X	X	X	X	X	X
*104	Cover Page Interactive Data File (formatted in Inline XBRL and contained in Exhibit 101).	X	X	X	X	X	X	X	X	X

The total amount of securities of each respective registrant or its subsidiaries authorized under any instrument with respect to long-term debt not filed as an exhibit does not exceed 10% of the total assets of such registrant and its subsidiaries on a consolidated basis. Each registrant agrees, upon request of the SEC, to furnish copies of any or all of such instruments to it.

SIGNATURES

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrants have duly caused this report to be signed on their behalf by the undersigned, thereunto duly authorized.

Date: February 25, 2021

DUKE ENERGY
CORPORATION
(Registrant)

By:

/s/ LYNN J. GOOD

Lynn J. Good
Chair, President and Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chair, President and Chief Executive Officer (Principal Executive Officer and Director)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
- | | |
|--------------------------|--------------------------|
| Michael G. Browning* | John T. Herron* |
| Annette K. Clayton* | William E. Kennard* |
| Theodore F. Craver, Jr.* | E. Marie McKee* |
| Robert M. Davis* | Marya M. Rose* |
| Daniel R. DiMicco* | Thomas E. Skains* |
| Nicholas C. Fanandakis* | William E. Webster, Jr.* |
| Lynn J. Good* | |

Steven K. Young, by signing his name hereto, does hereby sign this document on behalf of the registrant and on behalf of each of the above-named persons previously indicated by asterisk (*) pursuant to a power of attorney duly executed by the registrant and such persons, filed with the Securities and Exchange Commission as an exhibit hereto.

By:

/s/ STEVEN K. YOUNG

Attorney-In-Fact

Date: February 25, 2021

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Step 13 2021

SIGNATURES

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 25, 2021

DUKE ENERGY
CAROLINAS, LLC
(Registrant)

By:

/s/ LYNN J. GOOD

Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
- /s/ LYNN J. GOOD
Lynn J. Good
- /s/ DHIAA M. JAMIL
Dhiaa M. Jamil
- /s/ JULIA S. JANSON
Julia S. Janson

Date: February 25, 2021

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SIGNATURES

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Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 25, 2021

PROGRESS ENERGY, INC.
(Registrant)

By:

/s/ LYNN J. GOOD

Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

(i) /s/ LYNN J. GOOD

Lynn J. Good

Chief Executive Officer (Principal Executive Officer)

(ii) /s/ STEVEN K. YOUNG

Steven K. Young

Executive Vice President and Chief Financial Officer (Principal Financial Officer)

(iii) /s/ DWIGHT L. JACOBS

Dwight L. Jacobs

Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)

(iv) Directors:

/s/ KODWO GHARTEY-TAGOE

Kodwo Ghartey-Tagoe

/s/ LYNN J. GOOD

Lynn J. Good

Date: February 25, 2021

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Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 25, 2021

DUKE ENERGY
PROGRESS, LLC
(Registrant)

By:

/s/ LYNN J. GOOD

Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
- /s/ DOUGLAS F ESAMANN
Douglas F Esamann
- /s/ KODWO GHARTEY-TAGOE
Kodwo Gharthey-Tagoe
- /s/ LYNN J. GOOD
Lynn J. Good
- /s/ DHIAA M. JAMIL
Dhiala M. Jamil
- /s/ JULIA S. JANSON
Julia S. Janson

Date: February 25, 2021

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Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 25, 2021

DUKE ENERGY FLORIDA,
LLC
(Registrant)

By:

/s/ LYNN J. GOOD

Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
- /s/ DOUGLAS F ESAMANN
Douglas F Esamann
- /s/ KODWO GHARTEY-TAGOE
Kodwo Gharthey-Tagoe
- /s/ LYNN J. GOOD
Lynn J. Good
- /s/ DHIAA M. JAMIL
Dhiala M. Jamil
- /s/ JULIA S. JANSON
Julia S. Janson

Date: February 25, 2021

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Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 25, 2021

DUKE ENERGY OHIO, INC.
(Registrant)

By:

/s/ LYNN J. GOOD

Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

(i) /s/ LYNN J. GOOD

Lynn J. Good

Chief Executive Officer (Principal Executive Officer)

(ii) /s/ STEVEN K. YOUNG

Steven K. Young

Executive Vice President and Chief Financial Officer (Principal Financial Officer)

(iii) /s/ DWIGHT L. JACOBS

Dwight L. Jacobs

Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)

(iv) Directors:

/s/ DOUGLAS F ESAMANN

Douglas F Esamann

/s/ LYNN J. GOOD

Lynn J. Good

/s/ DHIAA M. JAMIL

Dhiaa M. Jamil

Date: February 25, 2021

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Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 25, 2021

DUKE ENERGY INDIANA,
LLC
(Registrant)

By:

/s/ LYNN J. GOOD

Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

- (i) /s/ LYNN J. GOOD
Lynn J. Good
Chief Executive Officer (Principal Executive Officer)
- (ii) /s/ STEVEN K. YOUNG
Steven K. Young
Executive Vice President and Chief Financial Officer (Principal Financial Officer)
- (iii) /s/ DWIGHT L. JACOBS
Dwight L. Jacobs
Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)
- (iv) Directors:
- /s/ DOUGLAS F ESAMANN
Douglas F Esamann
- /s/ KELLEY A. KARN
Kelley A. Karn
- /s/ STAN PINEGAR
Stan Pinegar

Date: February 25, 2021

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SIGNATURES

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Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 25, 2021

PIEDMONT NATURAL GAS
COMPANY, INC.
(Registrant)

By:

/s/ LYNN J. GOOD

Lynn J. Good
Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the date indicated.

(i) /s/ LYNN J. GOOD

Lynn J. Good

Chief Executive Officer (Principal Executive Officer)

(ii) /s/ STEVEN K. YOUNG

Steven K. Young

Executive Vice President and Chief Financial Officer (Principal Financial Officer)

(iii) /s/ DWIGHT L. JACOBS

Dwight L. Jacobs

Senior Vice President, Chief Accounting Officer, Tax and Controller (Principal Accounting Officer)

(iv) Directors:

/s/ DOUGLAS F ESAMANN

Douglas F Esamann

/s/ LYNN J. GOOD

Lynn J. Good

/s/ DHIAA M. JAMIL

Dhiaa M. Jamil

Date: February 25, 2021

OFFICIAL COPY

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