Mar 18 2021

INFORMATION SHEET

PRESIDING: Commissioner Clodfelter, Commissioners Brown-Bland, Gray, Duffley, Hughes, McKissick
PLACE: Via Videoconference
DATE: March 3, 2021
TIME: 1:30 p.m. to 4:38 p.m.
DOCKET NOS.: E-2, Sub 1177 and E-7, Sub 1172
COMPANIES: Cube Yadkin Generation, LLC, Duke Energy Progress, LLC, Duke Energy Carolinas, LLC
DESCRIPTION: In the Matter of Cube Yadkin Generation, LLC, Complainant, v. Duke Energy Progress, LLC, and Duke Energy Carolinas, LLC

VOLUME: 2

APPEARANCES (See attached.)

WITNESSES and EXHIBITS

(See attached.)

REPORTED BY: Linda Garrett

TRANSCRIBED BY: Linda Garrett DATE FILED March 17, 2021

TRANSCRIPT PAGES: 146 PREFILED PAGES: 28 TOTAL PAGES: 174

1	PLACE: Via Videoconference
2	DATE: Wednesday, March 3, 2021
3	DOCKET NO.: E-2, Sub 1177
4	E-2, Sub 1172
5	TIME: 1:30 P.M. TO 4:38 P.M.
6	BEFORE: Commissioner Daniel G. Clodfelter, Presiding
7	Commissioner ToNola D. Brown-Bland
8	Commissioner Lyons Gray
9	Commissioner Kimberly W. Duffley
10	Commissioner Jeffrey A. Hughes
11	Commissioner Floyd B. McKissick, Jr.
12	
13	IN THE MATTER OF:
14	Cube Yadkin Generation, LLC, Complainant
15	V.
16	Duke Energy Progress, LLC,
17	and
18	Duke Energy Carolinas, LLC, Respondents
19	
20	Volume 2
21	
22	
23	
24	

1	APPEARANCES:
2	FOR CUBE YADKIN GENERATION, LLC:
3	Joseph S. Dowdy, Esq., Partner
4	Phillip A. Harris, Jr., Esq., Counsel
5	Benjamin L. Snowden, Esq., Counsel
6	Kilpatrick Townsend & Stockton LLP
7	4208 Six Forks Road, Suite 1400
8	Raleigh, North Carolina 27609
9	
10	FOR DUKE ENERGY PROGRESS, LLC, and
11	DUKE ENERGY CAROLINAS, LLC:
12	Kendrick C. Fentress, Esq.
13	Associate General Counsel
14	Duke Energy Corporation
15	410 South Wilmington Street/NCRH 20
16	Raleigh, North Carolina 27602
17	
18	Robert W. Kaylor, Esq.
19	Law Office of Robert W. Kaylor, P.A.
20	353 E. Six Forks Road, Suite 260
21	Raleigh, North Carolina 27609
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Mar 18 2021

003

1	TABLE OF CONTENTS
2	EXAMINATIONS
3	PAGE
4	PANEL
5	MICHAEL KEEN, GLEN A. SNIDER
6	Direct Examination by Mr. Kaylor 5
7	Cross Examination by Mr. Dowdy 47
8	Redirect Examination by Mr. Kaylor
9	Examination by Commissioner Brown-Bland 134
10	Examination by Commissioner Duffley 144
11	Examination by Commissioner McKissick 153
12	Examination by Commissioner Clodfelter 159
13	Examination by Mr. Dowdy 161
14	Examination by Mr. Kaylor 167
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	

004

1	EXHIBITS
2	IDENTIFIED/ADMITTED
3	Keen Exhibit Numbers 1 through 4 17/169
4	Duke Panel Cross Examination
5	Exhibit Number 1 49/170
6	Duke Panel Cross Examination
7	Exhibit Number 2 51/170
8	Duke Panel Cross Examination
9	Exhibit Number 3 63/170
10	Duke Panel Cross Examination
11	Exhibit Number 4 67/170
12	Duke Panel Cross Examination
13	Exhibit Number 5 75/170
14	Duke Panel Cross Examination
15	Exhibit Number 6 81/170
16	Duke Panel Cross Examination
17	Exhibit Number 7 93/170
18	Duke Panel Cross Examination
19	Exhibit Number 8 94/170
20	Duke Panel Cross Examination
21	Exhibit Number 9100/170
22	Duke Panel Cross Examination
23	Exhibit Number 10103/170
24	

North Carolina Utilities Commission

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Mar 18 2021

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5	Benjamin L. Snowden, Esq., Counsel
6	Kilpatrick Townsend & Stockton LLP
7	4208 Six Forks Road, Suite 1400
8	Raleigh, North Carolina 27609
9	
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11	DUKE ENERGY CAROLINAS, LLC:
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13	Associate General Counsel
14	Duke Energy Corporation
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15	
16	
17	
18	
19	
20	
21	
22	
23	
24	

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23	Exhibit Number 10103/170
24	

North Carolina Utilities Commission

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Mar 18 2021

DATE:	March 3, 2021	DOCKET NO.:	E-7 Sub 1172 & E-2 Sub 1177			
			ess, Associate General Counsel			
ADDRE	SS: <u>410 S. Wi</u>	Imington St., NC20				
CITY: _	Raleigh	STATE : <u></u>	_ ZIP CODE: <u>27602</u>			
APPEAR	APPEARANCE ON BEHALF OF: _ Duke Energy Progress, LLC and Duke Energy					
Carolin	as, LLC					
APPLIC	ANT:	COMPLAINANT:	INTERVENOR:			
PROTE	STANT:	RESPONDENT: _X	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:

 \blacksquare Yes, I have signed the Confidentiality Agreement.

Email: kendrick.fentress@duke-energy.com

SIGNATURE: Kendnik C. Jerthess

(Required for distribution of <u>CONFIDENTIAL</u> transcript)

OFFICIAL COP

 DATE: March 3, 2021
 DOCKET NO.: E-2, Sub 1177; E-7, Sub 1172

 ATTORNEY NAME and TITLE: Robert W. Kaylor, attorney

 FIRM NAME: Law Office of Robert W. Kaylor, P.A.

 ADDRESS: 353 E. Six Forks Rd., Ste. 260

 CITY: Raleigh

 STATE: NC

 ZIP CODE: 27609

 APPEARANCE ON BEHALF OF: Duke Energy Carolinas, LLC, Duke Energy Progress, LLC

 APPLICANT: ____ COMPLAINANT: ____ INTERVENOR: ____

 PROTESTANT: ____ RESPONDENT: X____ DEFENDANT: ____

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SIGNATURE: _____

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DATE:	March 3, 2020	DOCKET NO.:		E-2, Sub 1177 and	I E-7, Sub 1172		
ATTOR	NEY NAMI	E and TITLE: Jose	ph S. Dowdy, Par	tner			
FIRM N	AME:	Kilpatrick Townsend & Stoc	kton LLP				
		08 Six Forks Road, Suite 140					
CITY:	Raleigh	STATE:	NC	ZIP CODE:	27609		
	APPEARANCE ON BEHALF OF:Cube Yadkin Generation, LLC						
APPLIC	CANT:	COMPLAINA	NT: <u>×</u>	INTERVENO	PR:		
PROTE	STANT:	RESPONDEN	F:	DEFENDAN	Г:		

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Email:	jdowdy@kilpatricktownsend.com
	URE: Joseph ADardy
	(Required for distribution of <u>CONFIDENTIAL</u> transcript)

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Mar 18 2021

NORTH CAROLINA UTILITIES COMMISSION APPEARANCE SLIP

DATE:	March 3, 2020	DOC	KET NO.:	E-2, Sub 1177 and	d E-7, Sub 1172		
	ATTORNEY NAME and TITLE: Phillip A. Harris, Jr., Counsel						
FIRM NAME:Kilpatrick Townsend & Stockton LLP							
ADDRE	SS:42	208 Six Forks Road, Suite 140	00				
CITY:	Raleigh	STATE:	NC	_ ZIP CODE:	27609		
APPEARANCE ON BEHALF OF:Cube Yadkin Generation, LLC							
APPLIC	CANT:	COMPLAINA	NT: _ <u>×</u> _	INTERVENC)R:		
PROTE	STANT:	RESPONDEN ⁻	Г:	DEFENDAN	T:		

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

X Yes, I have signed the Confidentiality Agreement.

Email:pharris@kilpatricktownsend.com
SIGNATURE: Phillip a Harris, Jr of semissin Jss
(Required for distribution of <u>CONFIDENTIAL</u> transcript)

DATE:	March 3, 2020	DOCKE	T NO.:	E-2, Sub 1177 and	l E-7, Sub 1172
				Counsel	
FIRM N		Kilpatrick Townsend & Stockton			
ADDRE	SS:42	08 Six Forks Road, Suite 1400			
CITY:	Raleigh	STATE: _ <u>_</u>	С	_ ZIP CODE:	27609
APPEARANCE ON BEHALF OF:Cube Yadkin Generation, LLC					
APPLIC	ANT:	COMPLAINANT	_ <u>X</u>	INTERVENO	R:
PROTE	STANT:	RESPONDENT:		DEFENDAN	Г:

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

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Email:bsnowden@kilpatricktownsend.com
SIGNATURE: Benjanin L Snowden 4/ punsin J3D
(Required for distribution of <u>CONFIDENTIAL</u> transcript)

KEEN EXHIBIT NO. 1 DOCKET NO. E-2, SUB 1177 DOCKET NO. E-7, SUB 1172

I/A

From: John Collins Sent: Tuesday, August 23, 2016 9:50 AM To: <u>regis.repko@duke-energy.com</u> Cc: Kristina Johnson <<u>kjohnson@cubehydro.com</u>> Subject: Follow-up to Our Meeting

Regis,

I hope this email finds you well and enjoying the end of summer. I am emailing to follow-up on our discussions regarding the Yadkin hydroelectric assets that Cube Hydro is purchasing from Alcoa. As we discussed in our meeting, we plan of registering 3 of the assets, High Rock, Tuckertown and Falls, as Qualifying Facilities and would like to have further discussions with Duke regarding longer-term QF contracts for these facilities. In addition, we discussed the possibility of a long-term PPA arrangement for all four facilities including the Narrows plant with Duke that could provide additional flexibility for Duke to manage its grid due to the continuing impact of solar generation on the Duke network.

As a follow-up to the meeting you were going to put us in contact with the appropriate team members at Duke to begin discussions. I wanted to let you know that Kristian and I plan to be in North Carolina next Thursday, September 1st, and have some availability to meet with your team if their schedules permit.

Let me know if that will work or who we should contact to begin further discussion related to long-term PPAs for the Yadkin hydroelectric plants.

Look forward to hearing from you.

Regards,

John

John R. Collins Executive Vice President and Managing Director – Business Development Cube Hydro Partners Two Bethesda Metro Center, Suite 1330 Bethesda, MD 20814 (240) 482-2703 (Work) icollins@cubehydro.com Mar 29 2018

I/A

KEEN EXHIBIT NO. 2 DOCKET NO. E-2, SUB 1177 DOCKET NO. E-7, SUB 1172

> Duke Energy 299 First Avenue North St. Petersburg, FL 33701

OFFICIAL COPY

September 21, 2016

Cube Hydro Partners Two Bethesda Metro Center, Suite 1330 Bethesda, MD 20814

Attn: John R. Collins Executive Vice President and Managing Director – Business Development

Re: Inquiry concerning sale of output of Yadkin system to Duke Energy

Dear John:

This letter is a follow up to our conversation of September 16, 2016 during which I communicated to you Duke Energy Progress, LLC and Duke Energy Carolinas, LLC's (collectively/individually, "Duke") positions in response to your inquiry soliciting Duke's interest in purchasing the output of the Yadkin system. The "Yadkin System" consists of four hydro-electric units as follows: High Rock Station, approximately 33 MW; Tuckertown Station, approximately 39 MW; Falls Station, approximately 30 MW; and Narrows Station, approximately 119 MW.

The Yadkin system is currently owned and operated by Alcoa Inc., and is the subject of a potential purchase by Cube Yadkin Generation, LLC ("Cube Yadkin"). You informed me that Cube Yadkin does not currently own or operate the Yadkin system, but anticipates that it will close on the transaction to own and operate the facilities around November 1, 2016. As I communicated to you previously, Duke does not have any current needs for energy or capacity; however, if a need arises in the future, Duke would likely issue a request for proposals and Cube Yadkin can elect to submit a responsive bid. You further informed me that Cube Yadkin is considering certifying the three smaller units as qualifying facilities under the Public Utility Regulatory Policies Act of 1978 ("PURPA"). In that regard, I informed you that to the extent Cube Yadkin approached Duke under PURPA, that under PURPA's requirements, Duke would likely have no obligation to purchase any output of energy or capacity from the Yadkin system units that may be certified as qualified facilities.

Please feel free to contact me with any questions.

Sincerely,

Michael Keen Business Development Manager Duke Energy

www.duke-energy.com

KEEN EXHIBIT NO. 3 DOCKET NO. E-2, SUB 1177 DOCKET NO. E-7, SUB 1172



I/A

OFFICIAL COPY

Mar 29,2018

Michael Keen Business Development Manager Duke Energy 299 First Avenue North St. Petersburg, FL 33701

Dear Michael,

I am writing in response to your letter dated September 21, 2016 (the "September 21 Letter") regarding the discussions between Duke Energy Progress, LLC and Duke Energy Carolinas, LLC (individually and together, "Duke"), and Cube Hydro Partners, LLC ("Cube Hydro") with respect to the four hydroelectric projects on the Yadkin River (collectively, the "Yadkin Projects") that are currently owned by Alcoa Power Generating Inc. ("Alcoa").

As we discussed, Cube Hydro Carolinas LLC, an affiliate of Cube Hydro, has agreed to acquire the Yadkin Projects from Alcoa. The acquisition is anticipated to occur before the end of 2016. Alcoa has certified three of the four Yadkin Projects – the approximately 30 MW Falls project, the approximately 40 MW Tuckertown project, and the approximately 34 MW High Rock project – as qualifying small power production facilities ("QFs") under the Public Utility Regulatory Policies Act of 1978 ("PURPA") and the implementing regulations of the Federal Energy Regulatory Commission ("FERC").

As you may know, Section 210(m) of PURPA and FERC's regulations require electric utilities, including Duke, to purchase energy and capacity made available from QFs. See 16 U.S.C. § 824a-3(a)(2) (2012); 18 C.F.R. § 292.303(a) (2016). FERC's regulations further specify that a QF shall have the option of making sales to an electric utility pursuant to a legally enforceable obligation, or on an "as available" basis. See 18 C.F.R. § 292.304(d) (2016).

Given that three of the Yadkin Projects are now QFs, we recommend that we meet to discuss your concerns at your earliest convenience. We are happy to come to your offices in late October or early November to discuss the process for making sales from these projects to Duke pursuant to PURPA. We would anticipate that such discussions would, among other things, address the statement in the September 21 Letter that, "under PURPA's requirements, Duke would likely have no obligation to purchase any output of energy or capacity from the Yadkin system units that may be certified as [QFs]." While electric utilities may petition FERC to be relieved of their mandatory purchase obligations under PURPA, it does not appear that FERC has issued an order relieving Duke of such obligations, or that there are any other applicable exceptions or exemptions.

KEEN EXHIBIT NO. 4 DOCKET NO. E-2, SUB 1177 DOCKET NO. E-7, SUB 1172

I/A

Duke Energy 299 First Avenue North St. Petersburg, FL 33701



October 14, 2016

Via Email and Priority Mail

Mr. John R. Collins Executive Vice President and Managing Director – Business Development Cube Hydro Partners, LLC Two Bethesda Metro Center, Suite 1330 Bethesda, MD 20814

Re: Response to Undated Cube Hydro Letter Received October 11, 2016

Dear John:

This letter is a follow up to your undated letter to Duke Energy Carolinas, LLC and Duke Energy Progress, LLC ("Duke") which was received on October 11, 2016 (the "Cube letter").

In the Cube letter you inform Duke, as Cube Hydro Partners LLC, on behalf of Cube Hydro Carolinas, LLC (collectively, "Cube Hydro"), that Alcoa Power Generation, Inc. ("Alcoa") has certified three out of four units of the Yadkin system as qualifying facilities under PURPA. The "Yadkin system" consists of four hydro-electric units, as follows: High Rock Station, approximately 33 MW; Tuckertown Station, approximately 39 MW; Falls Station, approximately 30 MWs; and, Narrows Station, approximately 119 MW. You further inform us that Cube Hydro seeks to purchase the Yadkin system from Alcoa, and may be the actual owner and operator of the Yadkin system by the end of 2016. At this time, Cube Hydro has no potential rights to exert under PURPA. Although your letter fails to reference our discussions, we have previously and prior to your letter informed you of the PURPA provisions under which Duke would be exempted from PURPA with regard to the Yadkin system. Accordingly, this letter serves as Duke's formal notice under 292.309/310 that if in the future Cube Hydro is a qualifying facility with respect to the Yadkin system that it is exempted from any purchase obligation under PURPA with respect to the Yadkin system.

Representations and warranties in applications made at FERC demonstrate that Cube Hydro has sought, and Alcoa currently has market-based rate authority on the basis of the ability and history of selling the output of the Yadkin system into competitive wholesale and organized markets. However, after you have closed on the transaction with Alcoa, if you seek to approach Duke under PURPA we will be glad to discuss this matter further.

Sincerely,

5/

Michael Keen Business Developer Manager, Duke Energy

KEEN EXHIBIT NO. 1 DOCKET NO. E-2, SUB 1177 DOCKET NO. E-7, SUB 1172

I/A

From: John Collins Sent: Tuesday, August 23, 2016 9:50 AM To: <u>regis.repko@duke-energy.com</u> Cc: Kristina Johnson <<u>kjohnson@cubehydro.com</u>> Subject: Follow-up to Our Meeting

Regis,

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Let me know if that will work or who we should contact to begin further discussion related to long-term PPAs for the Yadkin hydroelectric plants.

Look forward to hearing from you.

Regards,

John

John R. Collins Executive Vice President and Managing Director – Business Development Cube Hydro Partners Two Bethesda Metro Center, Suite 1330 Bethesda, MD 20814 (240) 482-2703 (Work) icollins@cubehydro.com Mar 29 2018

I/A

KEEN EXHIBIT NO. 2 DOCKET NO. E-2, SUB 1177 DOCKET NO. E-7, SUB 1172

> Duke Energy 299 First Avenue North St. Petersburg, FL 33701

OFFICIAL COPY

September 21, 2016

Cube Hydro Partners Two Bethesda Metro Center, Suite 1330 Bethesda, MD 20814

Attn: John R. Collins Executive Vice President and Managing Director – Business Development

Re: Inquiry concerning sale of output of Yadkin system to Duke Energy

Dear John:

This letter is a follow up to our conversation of September 16, 2016 during which I communicated to you Duke Energy Progress, LLC and Duke Energy Carolinas, LLC's (collectively/individually, "Duke") positions in response to your inquiry soliciting Duke's interest in purchasing the output of the Yadkin system. The "Yadkin System" consists of four hydro-electric units as follows: High Rock Station, approximately 33 MW; Tuckertown Station, approximately 39 MW; Falls Station, approximately 30 MW; and Narrows Station, approximately 119 MW.

The Yadkin system is currently owned and operated by Alcoa Inc., and is the subject of a potential purchase by Cube Yadkin Generation, LLC ("Cube Yadkin"). You informed me that Cube Yadkin does not currently own or operate the Yadkin system, but anticipates that it will close on the transaction to own and operate the facilities around November 1, 2016. As I communicated to you previously, Duke does not have any current needs for energy or capacity; however, if a need arises in the future, Duke would likely issue a request for proposals and Cube Yadkin can elect to submit a responsive bid. You further informed me that Cube Yadkin is considering certifying the three smaller units as qualifying facilities under the Public Utility Regulatory Policies Act of 1978 ("PURPA"). In that regard, I informed you that to the extent Cube Yadkin approached Duke under PURPA, that under PURPA's requirements, Duke would likely have no obligation to purchase any output of energy or capacity from the Yadkin system units that may be certified as qualified facilities.

Please feel free to contact me with any questions.

Sincerely,

Michael Keen Business Development Manager Duke Energy

www.duke-energy.com

KEEN EXHIBIT NO. 3 DOCKET NO. E-2, SUB 1177 DOCKET NO. E-7, SUB 1172



I/A

OFFICIAL COPY

Mar 29,2018

Michael Keen Business Development Manager Duke Energy 299 First Avenue North St. Petersburg, FL 33701

Dear Michael,

I am writing in response to your letter dated September 21, 2016 (the "September 21 Letter") regarding the discussions between Duke Energy Progress, LLC and Duke Energy Carolinas, LLC (individually and together, "Duke"), and Cube Hydro Partners, LLC ("Cube Hydro") with respect to the four hydroelectric projects on the Yadkin River (collectively, the "Yadkin Projects") that are currently owned by Alcoa Power Generating Inc. ("Alcoa").

As we discussed, Cube Hydro Carolinas LLC, an affiliate of Cube Hydro, has agreed to acquire the Yadkin Projects from Alcoa. The acquisition is anticipated to occur before the end of 2016. Alcoa has certified three of the four Yadkin Projects – the approximately 30 MW Falls project, the approximately 40 MW Tuckertown project, and the approximately 34 MW High Rock project – as qualifying small power production facilities ("QFs") under the Public Utility Regulatory Policies Act of 1978 ("PURPA") and the implementing regulations of the Federal Energy Regulatory Commission ("FERC").

As you may know, Section 210(m) of PURPA and FERC's regulations require electric utilities, including Duke, to purchase energy and capacity made available from QFs. See 16 U.S.C. § 824a-3(a)(2) (2012); 18 C.F.R. § 292.303(a) (2016). FERC's regulations further specify that a QF shall have the option of making sales to an electric utility pursuant to a legally enforceable obligation, or on an "as available" basis. See 18 C.F.R. § 292.304(d) (2016).

Given that three of the Yadkin Projects are now QFs, we recommend that we meet to discuss your concerns at your earliest convenience. We are happy to come to your offices in late October or early November to discuss the process for making sales from these projects to Duke pursuant to PURPA. We would anticipate that such discussions would, among other things, address the statement in the September 21 Letter that, "under PURPA's requirements, Duke would likely have no obligation to purchase any output of energy or capacity from the Yadkin system units that may be certified as [QFs]." While electric utilities may petition FERC to be relieved of their mandatory purchase obligations under PURPA, it does not appear that FERC has issued an order relieving Duke of such obligations, or that there are any other applicable exceptions or exemptions.

KEEN EXHIBIT NO. 4 DOCKET NO. E-2, SUB 1177 DOCKET NO. E-7, SUB 1172

I/A

Duke Energy 299 First Avenue North St. Petersburg, FL 33701



October 14, 2016

Via Email and Priority Mail

Mr. John R. Collins Executive Vice President and Managing Director – Business Development Cube Hydro Partners, LLC Two Bethesda Metro Center, Suite 1330 Bethesda, MD 20814

Re: Response to Undated Cube Hydro Letter Received October 11, 2016

Dear John:

This letter is a follow up to your undated letter to Duke Energy Carolinas, LLC and Duke Energy Progress, LLC ("Duke") which was received on October 11, 2016 (the "Cube letter").

In the Cube letter you inform Duke, as Cube Hydro Partners LLC, on behalf of Cube Hydro Carolinas, LLC (collectively, "Cube Hydro"), that Alcoa Power Generation, Inc. ("Alcoa") has certified three out of four units of the Yadkin system as qualifying facilities under PURPA. The "Yadkin system" consists of four hydro-electric units, as follows: High Rock Station, approximately 33 MW; Tuckertown Station, approximately 39 MW; Falls Station, approximately 30 MWs; and, Narrows Station, approximately 119 MW. You further inform us that Cube Hydro seeks to purchase the Yadkin system from Alcoa, and may be the actual owner and operator of the Yadkin system by the end of 2016. At this time, Cube Hydro has no potential rights to exert under PURPA. Although your letter fails to reference our discussions, we have previously and prior to your letter informed you of the PURPA provisions under which Duke would be exempted from PURPA with regard to the Yadkin system. Accordingly, this letter serves as Duke's formal notice under 292.309/310 that if in the future Cube Hydro is a qualifying facility with respect to the Yadkin system that it is exempted from any purchase obligation under PURPA with respect to the Yadkin system.

Representations and warranties in applications made at FERC demonstrate that Cube Hydro has sought, and Alcoa currently has market-based rate authority on the basis of the ability and history of selling the output of the Yadkin system into competitive wholesale and organized markets. However, after you have closed on the transaction with Alcoa, if you seek to approach Duke under PURPA we will be glad to discuss this matter further.

Sincerely,

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Michael Keen Business Developer Manager, Duke Energy

I/A

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NOTICE OF COMMITMENT TO SELL THE OUTPUT OF A QUALIFYING FACILITY TO Duke Energy Carolinas, LLC or Duke Energy Progress, LLC

Instructions to QF: The QF shall deliver, via certified mail, courier, hand delivery or email, its executed Notice of Commitment to:

Director – Power Contracts 400 South Tryon Street Mail Code: ST 13A Charlotte, North Carolina 28202 Attn.: Wholesale Renewable Manager DERContracts@duke-energy.com

Any subsequent notice that a QF is required to provide to Company pursuant to this Notice of Commitment shall be delivered to the same address by one of the foregoing delivery methods.

1. [_____] ("Seller") hereby commits to sell to Duke Energy Carolinas, LLC or Duke Energy Progress, LLC (the "Company") all of the electrical output of the Seller's qualifying facility ("QF") described in Seller's self-certification of QF status filed with the Federal Energy Regulatory Commission in Docket No. QF_____ (the "Facility").

2. The name, address, and contact information for Seller is:

Telephone:

Email:

3. By execution and submittal of this commitment to sell the output of the Facility (the "Notice of Commitment"), Seller certifies as follows:

(Select the applicable certification below)

- i. _____Seller has received a certificate of public convenience and necessity ("CPCN") for the construction of its _____ kW (net capacity ac) Facility from the North Carolina Utilities Commission ("NCUC") pursuant to North Carolina General Statute § 62-110.1 and NCUC Rule R8-64, which CPCN was granted by NCUC on [insert date] in Docket No. _____.
- Seller is exempt from the CPCN requirements pursuant to North Carolina General Statute § 62-110.1(g) and has filed a report of proposed construction for its _____ kW (net capacity ac) Facility with the NCUC pursuant to NCUC Rule R8-65 ("Report of Proposed Construction") on [insert date] in Docket No. _____.

Page 1 of 3

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- Seller has applied or will apply for a CPCN for the construction of its kW (net capacity ac) Facility on [insert date] in Docket No. _____. If the Seller does not know the docket number on the date of submission of this Notice of Commitment, Seller shall notify the Company of the docket number when it is assigned by the NCUC. Seller shall notify the Company upon issuance of an order by the Commission granting the CPCN.
- iv. _____ Seller is exempt from the CPCN requirements pursuant to North Carolina General Statute § 62-110.1(g) and will file a Report of Proposed Construction for its _____ kW (net capacity ac) Facility with the NCUC pursuant to NCUC Rule R8-65 and shall notify the Company at the address specified in paragraph 1 of the docket number of such filing when it is assigned by the NCUC.
- This Notice of Commitment shall take effect on its "Submittal Date" as hereinafter defined. "Submittal Date" means (a) the receipted date of deposit of this Notice of Commitment with the U.S. Postal Service for certified mail delivery to the Company, (b) the receipted date of deposit of this Notice of Commitment with a third-party courier (e.g., Federal Express, United Parcel Service) for trackable delivery to the Company, (c) the receipted date of hand delivery of this Notice of Commitment to the Company at the address set forth in paragraph 1, above, or (d) the date on which an electronic copy of this Notice of Commitment is sent via email to the Company if such email is sent during regular business hours (9:00 a.m. to 5:00 p.m.) on a business day (Monday through Friday excluding federal and state holidays). Emails sent after regular business hours or on days that are not business days shall be deemed submitted on the next business day.

By execution and submittal of this Notice of Commitment Seller acknowledges that:

- a. The legally enforceable obligation date ("LEO Date") for the Facility will be determined in accordance with subsections (c) or (d) below. For QFs of 5 MW or less, the LEO Date will be used to determine Seller's eligibility for the rates, terms and conditions of the Company's currently effective Schedule PP. If the Seller's Facility does not qualify for Schedule PP, rates for purchases from the Facility will be based on the Company's avoided costs as of the LEO Date, calculated using data current as of the LEO Date.
- b. If on the Submittal Date, Seller has a CPCN from or has filed a Report of Proposed Construction with NCUC for the Facility, the LEO Date will be the Submittal Date.
- c. If on the Submittal Date, Seller does not have a CPCN for the Facility or has not filed a Report of Proposed Construction with the NCUC for the Facility, the LEO Date will be the date on which the NCUC issues a CPCN for the Facility or the filing date of the Report of Proposed Construction for the Facility, as applicable. Page 2 of 3

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c.

This Notice of Commitment shall automatically terminate and be of no further force and effect in the following circumstances:

a. Upon execution of a PPA between Seller and Company.

b. For a seller eligible for Schedule PP, if such Seller does not execute a PPA within thirty (30) days of the Company's delivery of an "executable" PPA. An executable PPA shall mean a PPA delivered to the QF by the Company that contains all information necessary for execution and that the Company has requested that the QF execute and return.

For a Seller that is not eligible for Schedule PP, if such Seller does not execute a PPA within six months (as such period may be extended by mutual agreement of Seller and Company) after the Company's submittal of the PPA to the QF, provided, however, that if no interconnection agreement for the Facility has been tendered to Seller prior to the expiration of such deadline, the deadline for execution of the PPA shall be automatically extended until the date that is five days after the date that the interconnection agreement is tendered to the Seller. Notwithstanding the foregoing, if the PPA proposed by the Company becomes the subject of an arbitration or complain proceeding, the six month deadline for execution of the PPA shall be tolled upon the filing of the pleading commencing such proceeding and thereafter the deadline for execution of the PPA will be as directed by the NCUC.

The undersigned is duly authorized to execute this Notice of Commitment for the Seller:

[Name]

[Title]

[Company]

[Date]

Mailing Address: NCRH 20 / P.O. Box 1551 Raleigh, NC 27602

> o: 919.546.6733 f: 919.546.2694

Kendrick.Fentress@duke-energy.com

February 9, 2016

VIA ELECTRONIC FILING

Ms. Gail L. Mount Chief Clerk North Carolina Utilities Commission 4325 Mail Service Center Raleigh, North Carolina 27699-4300

Re: Duke Energy Progress, LLC and Duke Energy Carolinas, LLC's Compliance Filing Related to Website Updates Docket No. E-100, Sub 140

Dear Ms. Mount:

Enclosed for filing with respect to the above referenced matter is Duke Energy Progress, LLC's and Duke Energy Carolinas, LLC's information on the location of the Notice of Commitment to Sell Form and other required information on their websites. This filing is made in compliance with the Commission's *Order Establishing Standard Rates and Contract Terms for Qualifying Facilities*, issued by the North Carolina Utilities Commission ("Commission") in Docket No. E-100, Sub 140 on December 17, 2015 ("Phase 2 Order"), and the *Order Granting Extension*, issued January 15, 2016. Duke Energy Carolinas, LLC ("DEC") and Duke Energy Progress, LLC ("DEP") (collectively, the "Companies") filed their revised avoided cost rates, standard terms and conditions, and standard offers in this docket on February 2, 2016. The Companies are completing their required compliance filing at this time by reporting on information added to their websites relating to a qualifying facility's ("QF") establishment of a legally enforceable obligation ("LEO").

In the Phase 2 Order, the Commission clarified that a facility seeking to establish a LEO must have self-certified as a QF at the Federal Energy Regulatory Commission, in addition to having: (i) obtained a certificate of public convenience and necessity or, as appropriate, filed a report of proposed construction and (ii) provided notice of a commitment to sell the output of the facility to the utility. The Commission concluded that the "LEO form" that Dominion North Carolina Power ("DNCP") submitted as Exhibit E to DNCP's August 7, 2015 reply comments would be the form required of all QFs seeking to make a commitment to sell in order to establish a LEO. The Commission directed DNCP, DEC, and DEP ("the Utilities") to place the forms on their websites along with information that shows how to establish a LEO and which departments must be contacted to negotiate interconnection agreements and power purchase agreements. The Commission also required that the following language be included on the Utilities' websites:

The submission of an interconnection request does not constitute an indication of a customer's commitment to sell the output of a facility. For information on submitting a legally enforceable obligation form or requesting a power purchase agreement ("PPA") please see the following website: (provide relevant website link).

In compliance with the Phase 2 Order, DEC and DEP have posted the links to the Notice of Commitment to Sell Form in the following locations:

- For DEP: <u>https://www.uat.progress-energy.com/carolinas/home/renewable-</u> energy/interconnect-nc.page (please scroll to the bottom of the webpage)
- For DEC: <u>http://wwwqa.duke-energy.com/generate-your-own-power/nc-</u> connect-to-the-grid.asp

The DEP webpage displays information on where to submit interconnection requests, how to establish a LEO, how to request a PPA, the link to the Notice of Commitment to Sell Form, as well as the information explaining that an interconnection request does not indicate a QF's commitment to sell.

For DEC, information on requesting interconnection is found at the bottom of the webpage. The link to the Notice of Commitment form is located under the Qualifying Facilities Commitment to Sell tab. This tab also contains information on establishing a LEO and requesting a PPA, as well as information explaining that an interconnection request does not indicate a QF's commitment to sell.

The Companies have also attached to this letter as Exhibit A, screenshots of the applicable webpages.

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The Companies intend to update their webpages further when the avoided cost rates, filed February 2, 2016, in this docket, become effective.

Please do not hesitate to contact me if you have any questions. Thank you for your assistance with this matter.

Sincerely,

Kender Mentres

Kendrick C. Fentress

Enclosure

cc: Parties of Record

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Exhibit A

Commitment to Sell

https://wwwuat.progress-energy.com/carolinas/home/renewable-energy/interconnect-nc.page

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To establish a Legal Enforceable Obligation (LEO) a QF must.	~
1 Self-certifyat FERC as a Qualifying Facility	
2 Make a commitment to sell the output of the facility to the utility pursuant to PURPA and via the use of the approved Notice of Commitment to Sell Form	
3 Be in receipt of a Certificate of Public Convenience and Necessity("CPCN") or have filed a Report of Proposed Construction ("ROPC")	16-0
 Pease note. The submission of an interconnection request does not constitute an indication of a QF's commitment to sell the output of a facility to the utility. 	8-00-00-00-00-00-00-00-00-00-00-00-00-00
For information on submitting Notice of Commitment to Sell Form, please see: Notice of Commitment to Sell Form	le l
 To request a Purchase Power Agreements (PPAs) please contact the utility at the following address or at the following email address: 	
Director – Power Contracts 400 South Tryon Street Nail Code ST 13A Charlotte, North Carolina 28202 Atto: Wholesate Renevable Manager DERContracts@duke-energycom	
For drawings that show exactly how a customer-owned sell-ali generating facility should interconnect to the Duke EnergyProgress system, please refer to the Requirements for Electric Service and Meter Installations	
 For Transmission Interconnection or if wheeling power, please see the OATT interconnection information 	
Note: Customers intending to interconnect generation to Duke Energy Progress electric gnd must adhere to all utility requirements, state and local ordinances, electrical permitting, and regulations adopted bythe North Carolina Ublities Commission (the governing body of regulated utilities). This website is intended to provide access to Duke Energy Progress relevant interconnection documents, but does not constitute a comprehensive guideline for generator installation. We recommend that customers consult with energy professionals or qualified renewable energy installers for complete project assistance.	
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400 South Tryon	Street Charlotte NC 28202	2		[
Some other thin	gs you need to know.			
North Carolina o	stomers wishing to conne	c renewable and nonubity owned gener	ation resources to the Duke Engrav	
Progress Distrib Docket E-100, St	and system must tollow s	tandards as adopted by the North Carolin	na Utilities Commission (NCUC) under	
We recommand	that you become familiar w	with the NCUC approved interconnection F	Proceduras which among state	
jurisdictional ger	lerator interconnection. One	ce you have determined the installation s	de and esthered technical information	[
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please note that	Duke EnergyProgress req	ures among other information, the follow	ving	1
1) The contact m	ormation of the installer/eli	edrician,		
2) Invester Manuf	acturer's Spec Sheet (Inver	ter-based generation only)		4
3) An electrical o	ne-line diagram showing th	he configuration of all generating equipm	ant a grant and extended manufactured	1
protection and co	introl schemes. This one-h	ne diagram must be signed and stampe	d by a licensed Drofes closed Engline and	I
if the generating	facility is larger than 50 KW	, and	a of a non-sea is measurial midules.	
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http://wwwqa.duke-energy.com/generate-your-own-power/nc-connect-to-the-grid.asp

	Duke Panel Cros	ss-Examination Exhibit 2
http://wwwqa.duke-energy	v.com/generate-your-own-power/nc-connect-to-the-grid.asp	OFFICIAL OPY
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(G) (C) (S http://www.qa.duke-energy.com/generate	your-own D - C S NC Interconnection Procedures S How to Connect to Duke En., x	<u> 命 ☆ ⑬</u>
	Qualifying Facilities Commitment to Self A generating facility proposing to self electricity to Duke Energy must first meet the requirements of a "Qualifying Facility" (QF) as defined by the Public Utility Regulatory Poticles Act of 1976 (PURPA) and the Federal Energy Regulatory Commission (FERC) regulations Implementing PURPA. Cogeneration facilities and small power production facilities that achieve the necessary federal standards can become a "Qualifying Facility" and be eligible for the rates and exemptions established in accordance with Section 210 of PURPA, NCUC Docket E-100, Sub 140 identifies the standard rates and contract terms for a Qualifying Facility To establish a Legal Enforceable Obligation (LEO) a QF must. Self-certify at FERC as a Qualifying Facility Make a commitment to self the output of the facility to the utility pursuant to PURPA and via the use of the approved Notice of Commitment to Self Form Be in receipt of a Certificate of Public Convenience and Necessity ("CPCN") or have filed a Report of Proposed Construction ("ROPC")	al One-Line Examples ntial One-Line Examples
	Please note. The submission of an interconnection request does not constitute an indication of a QF's commitment to sell the output of a facility to the utility	
	For information on submitting Notice of Commitment to Sell Form, please see. Notice of Commitment to Sell Form. To request a Purchase Power Agreements (PPAs) please contact the utility at the following address or at the following email address: Director – Power Contracts 400 South Tryon Street Mail Code, ST 13A	~

CERTIFICATE OF SERVICE

I certify that a copy of Duke Energy Progress, LLC and Duke Energy Carolinas, LLC's Compliance Filing Related to Website Updates in Docket No. E-100, Sub 140 has been served on all parties of record either by electronic mail, hand delivery or by depositing a copy in the United States mail, postage prepaid.

This the 9th day of February, 2016.

Kendul Lentz

Kendrick C. Fentress Associate General Counsel Duke Energy Corporation P.O. Box 1551/ NCRH 20 Raleigh, North Carolina 27602 Tel: 919.546.6733 kendrick.fentress@duke-energy.com

Duke Panel Cross-Examination Exhibit 2

I/A

From: John Collins Sent: Tuesday, August 23, 2016 9:50 AM To: <u>regis.repko@duke-energy.com</u> Cc: Kristina Johnson <<u>kjohnson@cubehydro.com</u>> Subject: Follow-up to Our Meeting

Regis,

I hope this email finds you well and enjoying the end of summer. I am emailing to follow-up on our discussions regarding the Yadkin hydroelectric assets that Cube Hydro is purchasing from Alcoa. As we discussed in our meeting, we plan of registering 3 of the assets, High Rock, Tuckertown and Falls, as Qualifying Facilities and would like to have further discussions with Duke regarding longer-term QF contracts for these facilities. In addition, we discussed the possibility of a long-term PPA arrangement for all four facilities including the Narrows plant with Duke that could provide additional flexibility for Duke to manage its grid due to the continuing impact of solar generation on the Duke network.

As a follow-up to the meeting you were going to put us in contact with the appropriate team members at Duke to begin discussions. I wanted to let you know that Kristian and I plan to be in North Carolina next Thursday, September 1st, and have some availability to meet with your team if their schedules permit.

Let me know if that will work or who we should contact to begin further discussion related to long-term PPAs for the Yadkin hydroelectric plants.

Look forward to hearing from you.

Regards,

John

John R. Collins Executive Vice President and Managing Director – Business Development Cube Hydro Partners Two Bethesda Metro Center, Suite 1330 Bethesda, MD 20814 (240) 482-2703 (Work) jcollins@cubehydro.com Mar 18 202⁻

Mar 29 2018

20 20

From:	Palasek, Matthew E			
To:	Keen, Michael T < Michael Keen@duke-energy.com>			
Subject:	RE: Duke Energy wholesale power contact			
Sent:	2016/08/30 17:36:02 (UTC +00:00)			

Thanks, Mike

From: Keen, Michael T Sent: Tuesday, August 30, 2016 1:36 PM To: Palasek, Matthew E Subject: RE: Duke Energy wholesale power contact

Left him a vm, have internal mtg with our analysts tomorrow and working team on Thursday. We may not have an obligation to take their units under PURPA if they have access to an organized market. Just getting started on the initial review.

Michael Keen Business Development Manager Duke Energy Office 727.820.4500 Mobile 727.424.2665



From: Palasek, Matthew E Sent: Tuesday, August 30, 2016 1:05 PM To: Keen, Michael T Subject: RE: Duke Energy wholesale power contact

Have you gotten back to John and just pulled me out of the string? I'm potentially meeting with his boss on Thursday and just want to make sure I know...

From: John Collins [mailto:jcollins@cubehydro.com] Sent: Friday, August 26, 2016 8:29 AM To: Palasek, Matthew E Cc: Keen, Michael T; Kristina Johnson Subject: RE: Duke Energy wholesale power contact

*** Exercise caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Thank you for the introduction.

Mike, nice to meet you. As background which you may be aware of, Cube Hydro recently announced that we are acquiring the four Yadkin hydroelectric plants from Alcoa. Given that the assets are located in Duke's service territory and are interconnected into both Duke Progress and Duke Carolina systems, we had a preliminary meeting with Dhia Jamal and Regis Repko to discuss Duke's potential interest in long-term PPAs from the plants. Of the 4 plants, we will be registering 3 of the plants as Qualifying Facilities given their size and locations. The fourth plant, Narrows does not meet the criteria to qualify as a qualifying facility. Given that the 4 plants are operated as a system, there may be interest by Duke in PPAs covering all 4 plants.

We are in North Carolina on a regular basis and can make ourselves available for a meeting. I know Kristina Johnson, our CEO, will be in North Carolina next week and could meet on September 1. We will also be back in North Carolina the following week and could meet with you and your team then as well.

Let me know some dates when you would be available to meet and discuss the potential PPAs for the Yadkin assets.

We look forward to meeting you in person to begin discussions.

Regards,

John

John R. Collins Executive Vice President and Managing Director – Business Development

Mar 08 2021

Cube Hydro Partners Two Bethesda Metro Center, Suite 1330 Bethesda, MD 20814 (240) 482-2703 (Work) jcollins@cubehydro.com

From: Palasek, Matthew E [mailto:Matthew.Palasek@duke-energy.com] Sent: Thursday, August 25, 2016 4:14 PM To: John Collins <<u>icollins@cubehydro.com</u>> Cc: Keen, Michael T <<u>Michael.Keen@duke-energy.com</u>> Subject: Duke Energy wholesale power contact

Hi John-

Per our discussion yesterday, please consider Mike Keen (cc'd here) as your point of contact for initiating discussions on a potential PPA:

Michael Keen Business Development Manager Renewable Compliance & Origination Ph: 727-820-4500 e-mail: <u>Michael.Keen@duke-energy.com</u>

Please let me know if you have any questions, and I am happy to stay involved in the discussions insofar as my presence would be helpful.

Thanks, Matt

Matt Palasek Corporate Development work - (704) 382-0955 cell - (704) 654-0354 <u>Matthew,Palasek@duke-energy.com</u>



I/A

Duke Energy 299 First Avenue North St. Petersburg, FL 33701 OFFICIAL COP

OFFICIAL COPY

Mar 29 2018

September 21, 2016

Cube Hydro Partners Two Bethesda Metro Center, Suite 1330 Bethesda, MD 20814

Attn: John R. Collins Executive Vice President and Managing Director – Business Development

Re: Inquiry concerning sale of output of Yadkin system to Duke Energy

Dear John:

This letter is a follow up to our conversation of September 16, 2016 during which I communicated to you Duke Energy Progress, LLC and Duke Energy Carolinas, LLC's (collectively/individually, "Duke") positions in response to your inquiry soliciting Duke's interest in purchasing the output of the Yadkin system. The "Yadkin System" consists of four hydro-electric units as follows: High Rock Station, approximately 33 MW; Tuckertown Station, approximately 39 MW; Falls Station, approximately 30 MW; and Narrows Station, approximately 119 MW.

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The Yadkin system is currently owned and operated by Alcoa Inc., and is the subject of a potential purchase by Cube Yadkin Generation, LLC ("Cube Yadkin"). You informed me that Cube Yadkin does not currently own or operate the Yadkin system, but anticipates that it will close on the transaction to own and operate the facilities around November 1, 2016. As I communicated to you previously, Duke does not have any current needs for energy or capacity; however, if a need arises in the future, Duke would likely issue a request for proposals and Cube Yadkin can elect to submit a responsive bid. You further informed me that Cube Yadkin is considering certifying the three smaller units as qualifying facilities under the Public Utility Regulatory Policies Act of 1978 ("PURPA"). In that regard, I informed you that to the extent Cube Yadkin approached Duke under PURPA, that under PURPA's requirements, Duke would likely have no obligation to purchase any output of energy or capacity from the Yadkin system units that may be certified as qualified facilities.

Please feel free to contact me with any questions.

Sincerely,

Michael Keen Business Development Manager Duke Energy



I/A

Michael Keen Business Development Manager Duke Energy 299 First Avenue North St. Petersburg, FL 33701

Dear Michael,

I am writing in response to your letter dated September 21, 2016 (the "September 21 Letter") regarding the discussions between Duke Energy Progress, LLC and Duke Energy Carolinas, LLC (individually and together, "Duke"), and Cube Hydro Partners, LLC ("Cube Hydro") with respect to the four hydroelectric projects on the Yadkin River (collectively, the "Yadkin Projects") that are currently owned by Alcoa Power Generating Inc. ("Alcoa").

As we discussed, Cube Hydro Carolinas LLC, an affiliate of Cube Hydro, has agreed to acquire the Yadkin Projects from Alcoa. The acquisition is anticipated to occur before the end of 2016. Alcoa has certified three of the four Yadkin Projects – the approximately 30 MW Falls project, the approximately 40 MW Tuckertown project, and the approximately 34 MW High Rock project – as qualifying small power production facilities ("QFs") under the Public Utility Regulatory Policies Act of 1978 ("PURPA") and the implementing regulations of the Federal Energy Regulatory Commission ("FERC").

As you may know, Section 210(m) of PURPA and FERC's regulations require electric utilities, including Duke, to purchase energy and capacity made available from QFs. See 16 U.S.C. § 824a-3(a)(2) (2012); 18 C.F.R. § 292.303(a) (2016). FERC's regulations further specify that a QF shall have the option of making sales to an electric utility pursuant to a legally enforceable obligation, or on an "as available" basis. See 18 C.F.R. § 292.304(d) (2016).

Given that three of the Yadkin Projects are now QFs, we recommend that we meet to discuss your concerns at your earliest convenience. We are happy to come to your offices in late October or early November to discuss the process for making sales from these projects to Duke pursuant to PURPA. We would anticipate that such discussions would, among other things, address the statement in the September 21 Letter that, "under PURPA's requirements, Duke would likely have no obligation to purchase any output of energy or capacity from the Yadkin system units that may be certified as [QFs]." While electric utilities may petition FERC to be relieved of their mandatory purchase obligations under PURPA, it does not appear that FERC has issued an order relieving Duke of such obligations, or that there are any other applicable exceptions or exemptions.

Thank you for your attention to this matter. We'll be contacting your office to find a mutually agreeable date to meet at your offices.

Sincerely,

John R. Collins Executive Vice President and Managing Director – Business Development

Kristina Johnson Cc: Dhiaa M. Jamil

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I/A

St. Petersburg, FL 33701

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Aar 18 202

Mar 29 2018

OFFICIAL COPY



Duke Energy 299 First Avenue North

Via Email and Priority Mail

Mr. John R. Collins Executive Vice President and Managing Director – Business Development Cube Hydro Partners, LLC Two Bethesda Metro Center, Suite 1330 Bethesda, MD 20814

Re: Response to Undated Cube Hydro Letter Received October 11, 2016

Dear John:

This letter is a follow up to your undated letter to Duke Energy Carolinas, LLC and Duke Energy Progress, LLC ("Duke") which was received on October 11, 2016 (the "Cube letter").

-40-

In the Cube letter you inform Duke, as Cube Hydro Partners LLC, on behalf of Cube Hydro Carolinas, LLC (collectively, "Cube Hydro"), that Alcoa Power Generation, Inc. ("Alcoa") has certified three out of four units of the Yadkin system as qualifying facilities under PURPA. The "Yadkin system" consists of four hydro-electric units, as follows: High Rock Station, approximately 33 MW; Tuckertown Station, approximately 39 MW; Falls Station, approximately 30 MWs; and, Narrows Station, approximately 119 MW. You further inform us that Cube Hydro seeks to purchase the Yadkin system from Alcoa, and may be the actual owner and operator of the Yadkin system by the end of 2016. At this time, Cube Hydro neither owns nor is a qualifying facility with respect to the Yadkin system. Therefore, Cube Hydro has no potential rights to exert under PURPA. Although your letter fails to reference our discussions, we have previously and prior to your letter informed you of the PURPA provisions under which Duke would be exempted from PURPA with regard to the Yadkin system. Accordingly, this letter serves as Duke's formal notice under 292.309/310 that if in the future Cube Hydro is a qualifying facility with respect to the Yadkin system and it seeks to sell power to Duke, it is Duke's view that it is exempted from any purchase obligation under PURPA with respect to the Yadkin system.

Representations and warranties in applications made at FERC demonstrate that Cube Hydro has sought, and Alcoa currently has market-based rate authority on the basis of the ability and history of selling the output of the Yadkin system into competitive wholesale and organized markets. However, after you have closed on the transaction with Alcoa, if you seek to approach Duke under PURPA we will be glad to discuss this matter further.

Sincerely,

Michael Keen

Business Developer Manager, Duke Energy

www.duke-energy.com

Duke Panel Cross-Examination Exhibit 7
I/A

From:	Bowman, Kendal C (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=KENDAL.BOWMAN>
То:	Hughes, Mike <mike.hughes@duke-energy.com>; Fountain, David <david.fountain@duke-energy.com>; Hawkins, Kathy G <kathy.hawkins@duke-energy.com>; Jester, Steve <steve.jester@duke-energy.com></steve.jester@duke-energy.com></kathy.hawkins@duke-energy.com></david.fountain@duke-energy.com></mike.hughes@duke-energy.com>
Subject:	RE: NEWS: Maryland company seals deal for Yadkin hydroelectric plants
Sent:	2017/02/03 20:29:54 (UTC +00:00)

Thanks for sending Mike – they have already called me asking for a meeting!!

From: Hughes, Mike Sent: Friday, February 03, 2017 3:29 PM To: Fountain, David; Hawkins, Kathy G; Bowman, Kendal C; Jester, Steve Subject: FW: NEWS: Maryland company seals deal for Yadkin hydroelectric plants

From: Shiel, Tom Sent: Friday, February 03, 2017 3:26 PM To: Duty-Corp Comm Subject: NEWS: Maryland company seals deal for Yadkin hydroelectric plants

Maryland company seals deal for Yadkin hydroelectric plants

Charlotte Business Journal, 2-3-17

By Ken Elkins

A Maryland company says it has closed the deal to buy the four hydroelectric plants on the Yadkin River from Alcoa.

Cube Hydro Partners, which now operates 19 plants in five states, says the Bethesda, Md., company will start work on local partnerships to bring increased economic, environmental and other benefits to the area on the eastern side of the Charlotte region.

"At Cube Hydro, we understand that what is good for the local and regional community is good for our business," says <u>John</u> <u>Collins</u>, executive vice president of Cube Hydro. "Our success is the community's success."

The company gave no other details of those planned partnerships. Neither Alcoa Inc. (NYSE: AA) nor Cube Hydro has disclosed the price of the deal.

Cube Hydro unveiled its plans to buy the plants last summer even before Alcoa received its new Federal Energy Regulatory Commission license for the Yadkin waterway. That process ended in September with Alcoa getting what amounts to a 38-year license.

Now Cube Hydro gets a system that produces 215 megawatts of electricity at four Yadkin River dams: High Rock, Tuckertown, Narrows and Falls.

CEO <u>Kristina Johnson</u>, a former U.S. undersecretary of energy in the Obama administration and a former dean of Duke University's engineering school, leads Cube Hydro.

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"We are excited to officially take ownership of the Yadkin Project," Johnson says. "Investing in clean power in North Carolina has long been a goal of ours."

The purchase essentially closes the story that started in 2007 when Alcoa closed its aluminum-smelting plant in Stanly County, which at one time employed 1,000.

Fights among county and city governments, the state and Alcoa followed as local residents questioned why Alcoa should be in charge of the hydroelectric system when it no longer needed the electricity to run the Badin plant. Opponents to the Alcoa relicensing also questioned the company's plans to clean up environmental problems at nearby Badin Lake.

With the Yadkin deal, Cube Hydro operates systems on 10 rivers in New York, Pennsylvania, Virginia, West Virginia and now North Carolina. The <u>Yadkin deal would boost the company's capacity to 373 megawatts of electricity</u>, or enough to power about 140,000 homes.

BRAND MESSAGES

Before submitting your release, please reviewit to ensure it includes one or more of the company's brand messages:

- * Customer focused
- * Environmentally responsible
- * Committed to innovation

Mar 08 2021

From:Kristina JohnsonSent:Monday, July 11, 2016 3:41 PMTo:dhiaa.jamil@duke-energy.comSubject:Good afternoonAttachments:Project Rainbow Press Release 7-11-16 - Cube Final Version.pdf

Dear Dhiaa – I called your office to let you know about this transaction and look forward to following up with you. It would be a pleasure to work together again- with warm regards, Kristina

Chief Executive Officer Cube Hydro, LLC Two Bethesda Metro Center Suite 1330 Bethesda, MD 20814 Tel: 240-482-2700 Fax: 240-482-2727| www.cubehydro.com





Press Release July 11, 2016

Cube Hydro Carolinas, an affiliate of Cube Hydro Partners, reaches agreement to acquire hydroelectric plants on the Yadkin River in North Carolina from Alcoa Power Generating Inc.

Bethesda, MD, July 11, 2016 – Cube Hydro Carolinas LLC, an affiliate of Cube Hydro Partners, LLC, has reached an agreement to purchase and upgrade four hydroelectric power plants located on the Yadkin River in North Carolina from Alcoa Power Generating Inc. (APGI), a subsidiary of Alcoa Inc. (NYSE:AA). The four facilities, known as High Rock, Tuckertown, Narrows and Falls, total 215 megawatts (MW) and are expected to produce nearly 800,000 megawatt-hours (MWh) of clean electricity per year.

Dr. Kristina M. Johnson, CEO of Cube Hydro Partners and former Dean of the Pratt School of Engineering at Duke University, said, "We are excited to expand our presence into North Carolina to operate and upgrade the plants on the Yadkin River. We are committed to being good stewards of these well-run hydropower plants that have a long history of generating reliable, carbon-free electricity."

Ray Barham, APGI Yadkin Relicensing Manager said, "Alcoa has a long history in North Carolina and we are grateful for the strong relationships we've formed over the years. We will continue to promote economic development opportunities at the Badin Business Park and are confident that Cube Hydro will build on our century-long legacy of generating clean, renewable energy and protecting the natural resources of the region."

"We look forward to partnering with local communities as well as state and federal regulators to preserve the natural beauty of North Carolina and increase the clean electricity generated from these plants," said John Collins, Managing Director for Business Development of Cube Hydro Partners.

Cube Hydro acquires and modernizes hydroelectric facilities to demonstrate the value of renewable hydropower and reduce our nation's reliance on carbon-based energy. Cube Hydro Partners currently owns and operates 14 plants in New York, Pennsylvania, Virginia and West Virginia with a total capacity of 126 MW and 470,000 MWh annually. When the Yadkin project and other pending acquisitions close, Cube Hydro Partners will operate 19 plants on ten rivers in five states with a combined capacity of more than 373 MW, generating 1.4 million MWh annually, or enough electricity to power approximately 140,000 homes with renewable energy.

About Cube Hydro: Cube Hydro, led by Dr. Kristina M. Johnson, former U.S. Undersecretary of Energy, is a hydropower development and operating platform targeting investments in mid-sized hydro projects in the U.S. and Canada. John Collins spent over 22 years with Constellation Energy Group, Inc. and Baltimore Gas and Electric Company, serving as Chief Financial Officer and Senior Vice President of Integration.

Contact: Hannah Harrill Office: 919-573-6329 Mobile: 336-457-7310 Email: <u>hharrill@capstrat.com</u>

CONFIDENTIAL

Duke Panel Cross-Examination Exhibit 9 I/A

1 STATE OF NORTH CAROLINA UTILITIES COMMISSION 2 RALEIGH 3 DOCKET NO. E-2, SUB 1177 DOCKET NO. E-2, SUB 1177 4 BEFORE THE NORTH CAROLINA UTILITIES COMISSION 5 Docket No. E-2, Sub 1177 6 7 In the Matter of Cube Yadkin Generation, LLC, Complainant 8 9 v. 10 Duke Energy Progress, LLC Respondent 11 Docket No. E-7, Sub 1172 12 In the Matter of 13 Cube Yadkin Generation, LLC, Complainant 14 v. 15 Duke Energy Carolinas, LLC 16 Respondent 17 18 VIDEOTAPED VIRTUAL DEPOSITION OF MICHAEL KEEN 19 20 DATE: Tuesday, December 8, 2020 21 TIME: 10:01 a.m. to 2:16 p.m. 22 LOCATION: Videotaped Virtual Deposition Florida 23 TAKEN BY: Complainant 24 Shannon McCann, CSR (NJ) **REPORTER:** 25

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	D 1		De est 4
1	Page 2 A P P E A R A N C E S:	1	Page 4 THE VIDEOGRAPHER: Good morning. This begins
2	KILPATRICK TOWNSEND & STOCKTON, LLP	2	media number one in the deposition of Michael Keen,
3	BY: JOSEPH S. DOWDY, ESQUIRE (Remote VC)	3	30(b)(6) witness for Duke Energy Carolinas and Duke
4	PHILLIP A HARRIS, ESQUIRE (Remote VC) BENJAMIN SNOWDEN, ESQUIRE (Remote VC)	4	Energy Progress, LLC.
5	4208 Six Forks Road Suite 1400	5	This is in the matter of Cube Yadkin Generation,
	Raleigh, North Carolina 27609	6	LLC versus Duke Energy Progress, LLC, et al.
6	(919) 420-1700 Jdowdy@kilpatricktownsend.com	7	Today's date is December 8, 2020. The time on
7	Pharris@kilpatricktownsend.com	8	the monitor is 10:01 a.m. My name is Roosevelt
8	Bsnowden@kilpatricktownsend.com Counsel for Complainant	9	Harrison. I am the videographer.
9	ALLEN LAW OFFICEES, PLLC	10	The court reporter is Shannon McCann. We are
10	BY: DWIGHT ALLEN, ESQUIRE (Remote VC)	11	here with Huseby Global Litigation.
11	BRITTON ALLEN, ESQUIRE (Remote VC) BRADY ALLEN, ESQUIRE (Remote VC)	12	Counsel, please introduce yourselves after which
	4030 Wake Forest Road #115	13	the court reporter will swear in the witness.
12	Raleigh, North Carolina 27609 (919) 838-9529	14	MR. DOWDY: Good morning. My name is Joe Dowdy
13	Dallen@theallenlawoffices.com Counsel for Respondent	15	and I'm joined by my colleagues, Phillip Harris and
14	-	16	Ben Snowden.
15	DUKE ENERGY CORPORATION BY: KENDRICK C. FENTRESS, ASSOCIATE GENERAL COUNSEL	17	Ben Snowden. We're here on behalf of the Petitioner and
16	(Remote VC)	18	
17	411 Fayetteville Street P.O. Box 1551		Complainant, Cube Yadkin Generation, LLC. We're also
18	Raleigh, North Carolina 27601 (919) 546-7497	19	joined by our client representative, Ginger Lew. MS. FENTRESS: Good morning. I'm Kendrick
	Kendrick.fengtress@duke-energy.com	20	5
19 20	ALSO PRESENT:	21	Fentress. With me are co-counsel Dwight Allen, Brady
21	Ginger Lew (Remote VC)	22	Allen, and Britton Allen. We are here on behalf of
22	Roosevelt Harrison, Videographer	23	Duke Energy Carolinas, LLC and Duke Energy Progress,
23 24		24	LLC, the Respondents.
24		25	(Whereupon Exhibits 1 and 2 were premarked for
	Page 3		Page 5
1	INDEX	1	Page 5 identification.)
1 2	INDEX WITNESS: PAGE:		
	INDEX		identification.) THEREUPON, MICHAEL KEEN,
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2 3 4 5	INDEX WITNESS: PAGE: MICHAEL KEEN DIRECT EXAMINATION 5	2 3 4	identification.) THEREUPON, MICHAEL KEEN, having first been duly sworn, was examined and
2 3 4 5 6	INDEX WITNESS: PAGE: MICHAEL KEEN DIRECT EXAMINATION 5 BY MR. DOWDY	2 3 4 5	identification.) THEREUPON, MICHAEL KEEN, having first been duly sworn, was examined and testified as follows:
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	INDEX PAGE: MICHAEL KEEN 5 BY MR. DOWDY 5 NUMBER DESCRIPTION PAGE Exhibit 1 Binder 4	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<pre>identification.) THEREUPON,</pre>
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	Page 6		Page 8
1 tech	÷.	1	At some point, have you seen a deposition notice
2	And try to remember the question-and-answer	2	in the case?
	at. And let me know if I'm interrupting you. It's	3	A. I think so. I think it was attached to the
4 not	on purpose. I'll stop.	4	binders maybe.
5	A. Okay.	5	Q. Yeah. And there's well, let's just look real
6	Q. Obviously, if there's an objection, you know,	6	quick. Although, I'll have to just hold on a moment.
7 you'	re still free to answer the question, unless there's	7	We designated certain topics, and ask the
8 an i	nstruction not to answer.	8	company testify to those. And the company has designated
9	But same thing with counsel. If I have already	9	you. I'll just go through them, if I may.
10 i	f the answer has already begun, go ahead and make	10	If you'll go to the second binder, Tab 201, and
11 your	objection. I know the technology is a little	11	turn to page four?
12 unus	ual.	12	A. Okay.
13	And I think most importantly, if there is if	13	Q. These are and you see where it says, Topics
14 at a	ny point, anyone notices a technological issue, I	14	For Examination?
15 woul	d appreciate if they chime in. I want the witness to	15	A. Yes.
16 be a	ble to hear, and I want to be able to hear everyone	16	Q. So these are the topics on which we've requested
17 and	vice versa.	17	testimony from Duke. And what I'll ask you to do is just
18	Most importantly, if at any point you need to	18	take a minute and look through them, and let me know if
19 take	a break, just let me know. And as soon as we finish	19	you're prepared to testify on these topics today.
	question we're on, we'll take that break. I know	20	A. Okay.
-	re a busy guy. And, you know, the circumstances are	21	MS. FENTRESS: Joe, I would object to some of
	ual; but it's not an endurance contest. It's a	22	these topics involved on legal opinion. And we sent
-	sition.	23	you all the objections to those in advance.
	A. Thank you.	24	So I would make that objection at this time with
	0 Abalutaly And some good for anybody Anybody	1 25	
25	Q. Absolutely. And same goes for anybody. Anybody	25	respect to those topics.
	Page 7		Page 9
1 need	Page 7 s a break at all, let me know.	1	Page 9 THE WITNESS: I would answer your question to say
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Page 10 Page 12 MS. FENTRESS: I'm sorry. I just enter an 1 I can't answer number ten at the high level. 1 objection to 19. Again, we want to make sure that 2 That seems you're looking for some analytical stuff 2 3 there. We have analysts that work on those things, but I we're not getting into any sort of legal discussion. 3 4 can't answer high level questions as relates to number I'm sorry. I'm looking at 18. I apologize. 4 5 ten. 5 Eighteen, 18. We contend that calls for a legal 6 Number 11, yes. Twelve, yes. 6 conclusion. MS. FENTRESS: I would just interrupt. I think 7 Sorry about that. 7 8 we've objected to 10, 11 and 12 as irrelevant to the 8 THE WITNESS: I think 21, I really cannot answer 9 -- he's entitled to a waiver of the requirement to 9 that one. 10 file a Notice of Commitment form. 10 MS. FENTRESS: Again, we think that calls for a THE WITNESS: I think I can answer number 14. 11 11 legal conclusion. MR. DOWDY: Which one? This is 21? 12 BY MR. DOWDY: 12 13 Q. I'm sorry. Did you give an answer on 13? 13 THE WITNESS: Yes. 14 Α. I think I can answer some of your questions that 14 MR. DOWDY: So I just want to stop there for a 15 relate to number 13, yes. 15 second and stop there politely on the record. My 16 Fifteen, yes. Sixteen, yes. position would be that, if I ask a question, and 16 17 MS. FENTRESS: We think question 17 calls for a 17 somebody thinks it calls for a legal objection, they 18 legal conclusion and object to that. 18 can object. And, you know, I guess the commission 19 THE WITNESS: Number 18 --19 will do what it does with the question. 20 MR. DOWDY: Hold on. 20 But I don't think that whole topics are 21 I still want to know if he's prepared to testify objectionable on the basis of requesting a legal 21 22 for it. 22 conclusion. And that just means that we don't have to 23 testify about the facts underlying them. I don't Go ahead. 23 24 MR. ALLEN: Then he would have to be prepared to 24 think that's a valid way to object to a 30(b)(6)25 give a legal opinion. 25 notice. I'm intending to ask about the facts. Page 11 Page 13 MR. DOWDY: The topic says, The factual basis for But be that as it may, I want to put that on the 1 1 2 the representation. I don't understand how that 2 record in light of the objections. But I'm not going 3 involves a legal conclusion. But I mean, I guess I'll 3 to ask Mr. Keen to be the company's lawyer. 4 BY MR. DOWDY: 4 just ask the topic as stated, and see if he's prepared 5 to testify what the factual basis is for the 5 Q. Anyway, go ahead, Mr. Keen. representation in the letter the date was accepted. Twenty-two, I cannot answer that. I do not have 6 6 Α. 7 MR. ALLEN: Well, the system deals with legal 7 any facts. I have no understanding at all of the waiver 8 issues and not the factual issues. We can do it when process for that, so I cannot answer to them. 8 9 we get there. 9 Twenty-two, again, I am not the person at Duke 10 THE WITNESS: I have to tell you when it comes to 10 that talks about CPCNs, I cannot answer 22. 11 number 17, I can't recall what paragraph 30 of the 11 I can provide some information on 23, I think. 12 complaint is. 12 Twenty-four, I can probably answer some 13 13 questions on 24, sure. I can probably answer questions Let me just read number 17 real quick. 14 Let's see. So, I'm going to say I don't think I 14 on number 25. Let me see. Twenty-six, let me read that one. 15 can answer number 17 for you, Mr. Dowdy. 15 16 Number 18, I think we already talked about that; 16 I think it sounds like 26 is a legal PURPA question. I 17 right? 17 don't think I can add any value on 26. 18 Let's see. Number 19, the same works for the 18 Twenty-seven is the same thing, the CPCN 19 privileged communications. I'm familiar with quite a 19 certificates. That whole process I'm not familiar with. 20 few communications, maybe not all of them. Definitely 20 I'm essentially a commercial guy. I do GPAs, and stuff 21 not all of them. 21 like that. 22 Number 20, same answer to that. I can answer 22 Let's see. Twenty-eight, I can discuss 28. 23 number 20. I'm not probably familiar with every 23 I can't answer 29. I don't understand that 24 single communication, but I'm familiar with a lot of 24 question at all. 25 them. Q. Thank you for that, Mr. Keen. 25

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Page 14 Page 16 A. Well, yeah. I mean probably not so much the 1 So I'll ask you some questions about your role 1 2 management of the existing contract piece. There's not 2 at Duke. You said you're a commercial guy. What 3 positions do you hold? 3 really a team; but, if we're out buying, selling, there A. I'm a business development manager. 4 4 will be a team. Q. Can you help me understand what are your core 5 There's a lot of procedures we have to follow, 5 6 job responsibilities in that role? 6 but the team consists of people, you know, analysts, fuel A. I buy and sell long-term capacity and energy and 7 folks, commercial attorneys, folks like that. So there 7 8 a lot of different energy projects for the Duke regulated 8 is a team of folks when we're working on new agreements. 9 utilities. 9 Q. I understand. 10 So, essentially, I work with other utilities, 10 How long have you been with Duke? 11 and cities, and co-ops to buy and sell long term power 11 A. Well, I started with Power Corp. in 1984. And I 12 for Duke Energy Carolinas, Duke Energy Progress, and Duke 12 believe in 2000 they were bought by Carolina Power and 13 Energy Florida. 13 Light. And then in 2000 Duke bought Carolina Power and 14 I also manage an existing portfolio of around 14 Light, so I think this is my 36th year. 15 4,000 megawatts of purchase power agreements. 15 Q. And how long have you been in the position of 16 Q. What do mean when you say you manage the 16 business development? 17 agreement? 17 A. Well, I started in the wholesale business right 18 Α. So these purchase power agreements, all these 18 around 1997. 19 PPAs, the type of management requires communicating with 19 0. And so, when you say you're entering in the PPAs 20 potentially the owners, the asset manager, the plant 20 and buying and selling energy and capacity, from what 21 manager, depends on who the owners are. 21 kind of companies would you generally -- with what kind 22 A lot of times I'm on operating committees to 22 of companies would you generally enter into PPA? Well, investor owned utilities, municipalities, 23 come up with operating committee procedures. I review 23 Α. 24 invoices to make sure they're accurate. Make sure that 24 co-ops, independent power producers. Those are the folks 25 forced outages and scheduled outages are done correctly. 25 we used to do business with. Page 15 Page 17 I arrange performance testing at these power And how would you -- which of those would you 1 1 0. 2 plants, that kind of stuff. Basically, day-to-day, you 2 say Cube Yadkin Generation is? 3 know, management interaction. I tend to be the single I would probably refer to them as private 3 Α. 4 point of contact for commercial ventures with the PPAs. 4 equity. 5 The PPAs, the power plants, do work with the energy 5 Q. And why would you say that? 6 control centers and stuff on daily dispatch, but just Well, at least originally they were owned by I 6 Α. 7 about anything else I would be involved. 7 Squared Capital, so that's why I would say that. 8 Q. When you use the term PPA, does that stand for Okay. 8 0. A. I think when this process started at least power purchase agreement? 9 9 10 A. Yes, or purchase power agreement. We also use 10 that's who it was owned by. 11 it synonymously sometimes with a towing agreement. 11 Do you have experience buying hydroelectric Q. 12 0. I understand. 12 power? 13 Just real quickly, if you would, what is the 13 Α. I do. 14 relationship between Duke Energy Progress, LLC, and Duke Q. I'm not going to ask about names. But 14 15 approximately how many hydroelectric deals have you done? 15 Energy Carolina? Those are two companies that --16 A. They're separate investor owned utilities. 16 A. I'm not sure how many I've done, but I manage 17 They're both owned by Duke Energy. 17 about 50 hydro PPAs. We're pretty much doing them all 18 Q. And in your role, do you work for both 18 the time. 19 companies? 19 Q. When you say, "all the time," does that come out 20 A. I do work for both companies, yes. 20 to a certain number a year you're doing or --21 Q. And is your title the same as it relates to both 21 A. You could say we have ten renewals or extensions 22 companies? 22 a year. That's just an estimate. It depends on all the 23 A. Yes. And also Duke Energy fuel. 23 contract terms and things like that, but we're doing them 24 Q. And are you on a -- do you work with a team of 24 pretty frequently. 25 individuals for what you do or --25 Q. And do you have an understanding of what a

	Page 18		Page 20
1	qualified facility is, just a personal understanding?	1	Q. I'll go to the names of the facilities. See if
2	I'm not asking for a legal	2	they're familiar to you. The High Rock facility, is that
3	A. I don't think I can give you a legal definition	3	one of them?
4	from PURPA. I do have a general understanding of what a	4	A. Yes.
5	qualifying facility is.	5	Q. And Tuckerstown, is that one of them?
6	Q. And what's your general understanding of what	6	A. Yes. I think so.
7	that is?	7	0. And Falls?
8	A. Well, they are typically facilities covered	8	A. I think Falls goes by maybe a couple of names.
9	under PIRPA. I think there's different definitions	9	Yeah, but Falls. And the last one is Narrows. I have to
10	depending on which state you work in, as far as, the	10	go back and look. I just remember one of them. It was
11	deals associated with that. But could be a co-gen.	11	referred to by two different names, but I think Narrows
12	Could be a solar. Could be a hydro.		is the non QF of the four.
	-	12	
13	Basically, there are machines what I call PURPA	13	Q. And you said three of them were QF's. Is that
14	machines and power plants that are eligible for PURPA.	14	High Rock, Tuckerstown, and Falls?
15	Q. And do you have experience with what's referred	15	A. I think so. Yes. I think Narrows is the non
16	to under PURPA as legally enforceable obligations,	16	QF.
17	L-E-Os?	17	Q. And do you know when they became QF's?
18	A. I have some familiarity with that, yes.	18	A. I believe ALCOA certified those, or filed the
19	Q. I'm not asking again for legal conclusions, but	19	PURPA forms in September maybe of 2016.
20	what's your familiarity with LEO's.	20	Q. Now, does Duke have facilities nearby to those
21	A. Well, on the commercial side, typically the way	21	facilities?
22	those types of those things work PURPA being implemented	22	A. I believe we have a couple of other hydros on
23	on a state-by-state basis, the regulatory attorneys for	23	that river system. Yes.
24	the individual states keep the commercial guys in the	24	Q. Okay. Do you know what the names of those
25	loop on what process we follow to establish LEO's in the	25	facilities are?
	Page 19		Page 21
1	different jurisdictions.	1	A. I forgot. I don't remember them.
2	But, essentially, for me, personally, what that	2	Q. I'm sure I'm going to butcher this, because I
3	means is once Cube has established a LEO, that's the date	3	moved my notes. But is Tillery or Blewett one of them?
4	we use to begin basically our analysis for our	4	A. Yeah. I think it's Tillery and Blewett. That
5	calculation of what it costs and stuff like that.	5	sounds familiar.
6	Q. Thank you.	6	Q. So do you know for the separate Cube facilities,
7	Now, are you personally familiar well, strike	7	do you know sort of how much output they have?
8	that.	8	A. I don't have the exact outputs in front me; but
9	Are you familiar with the Cube Yadkin facilities	9	I nominally think of those four plants as roughly Narrows
10	that are referenced in the complaint?	10	being 100 and the other three plants adding up to 100,
11	A. Yes.	11	you know, thereabouts.
12	Q. And can you are those interconnected to the	12	I think when you go back and look, you know,
13	Duke grid facilities?	13	sometimes with hydros you can't pick exactly what the
14	A. They're interconnected to both DEC and DEP. I	14	capacity is of those. But I believe all three of the
15	believe Cube Yadkin has its own balancing authority.	15	smaller ones were in the 30 megawatt range, 33, 35, 38,
16	Q. And there's how many facilities or how many	16	something like that, and Narrows was a little bit over
17	different I'll ask it this way. The high level, how	17	100.
18	would you describe the Cube Yadkin facility?	18	Q. So you got a pretty good memory there.
19	A. There's four facilities there, nominally, 200	19	In approximately 2015 were these facilities
20	megawatts located on the Yadkin River. Three of them are	20	owned by ALCOA?
21	qualifying facilities and one is not. They were owned by	21	A. I believe so. Yeah.
22	ALCOA for many, many years.	22	Q. And at some point, did Duke become aware that
23	And I don't know. First quarter of 2017 I think	23	ALCOA was going to sell the facilities?
		24	A. Yes.
24			
24	what I know.	25	Q. And do you know how Duke became aware of that?

	D 11		D 34
1	Page 22 A. I do not. I think that ALCOA would consider	1	Page 24 A. I think it was in the summer of 2016, summer of
2	Duke sort of a natural potential buyer. I don't think	2	2016.
3	that would be a stretch.	3	Well, I don't know about that. That's what it
4	But M&A activity, I'm not involved with M&A.	4	looks like. I think the process, you guys probably will
5	Look, I'm not involved with mergers and acquisitions.	5	know better than me; but I think the process, ALCOA's
6	That would be our corporate development group.	6	purchase process, probably started, you know, months and
7	Q. So you don't it's fair to say you don't have	7	months before then.
8	specific knowledge of Duke's potential purchase of the	8	So I suspect we knew there were other bidders
9	Yadkin facility?	9	interested; but I believe the summer of 2016 is when we
10	A. No. I wouldn't be able to answer specifics of	10	started getting communications from Cube that they felt
11	it. In other words, they have folks in corporate	11	like they were going to eventually own those power
12	development. That's their job.	12	plants.
13	Q. Let me ask you a high level. Do you know why	13	Q. And I'm sorry if you said it, and I missed it;
14	Duke was potentially interested in purchasing a facility?	14	but do you know approximately when you started getting
15	A. Well, I think that there are some synergies	15	outreach from Cube that they thought they might own the
16	there. And it's located, you know, in North Carolina.	16	power plant?
17	Duke is a pretty sizable provider of electricity. We	17	A. You know, I don't. You know, I Squared Capital
18	have other hydros on the river and other hydros in	18	and Cube they were pretty well-connected. And they would
19	qeneral.	19	communicate at the executive levels with Duke, which I'm
20	So I think it was you know, if it was	20	not familiar with; but it looks to me like right around
20	something that was for sale, we felt it was a good price	21	August of 2016 is when I started seeing the first e-mails
22	for our customers, it was something the commission would	22	about it. So I think, you know, summer of 2016 is when
22	approve, I think it would make sense to participate and	23	we heard about it.
23	start the process to purchasing assets.	24	Q. So August of 2016 is when you, Michael Keen,
25	I would doubt 2016, 2017 was the first time they	25	became involved; but it's possible there were some
25	i would double 2010, 2017 wab the filbe time they	25	became involved, but it is possible there were some
	Page 23		Page 25
1		1	communications before that?
	looked at those assets. I don't have any knowledge of		communications before that?
2	that.	2	A. I was assigned to this project on August 25 of
2 3	that. Q. Okay. Okay.	2	A. I was assigned to this project on August 25 of 2016.
2 3 4	that. Q. Okay. Okay. And is it beneficial for Duke to own at least	2 3 4	A. I was assigned to this project on August 25 of 2016.Q. Let me ask it this way: Is it fair to say you
2 3 4 5	that. Q. Okay. Okay. And is it beneficial for Duke to own at least some hydroelectric facilities?	2 3 4 5	A. I was assigned to this project on August 25 of 2016.Q. Let me ask it this way: Is it fair to say you don't know what personally happened before that?
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Page 28 Page 26 1 but do you know someone named Regis Repko? 1 Essentially, I'm in charge at that point of the A. I never met Regis Repko. He's an executive with 2 commercial transaction. So I would, essentially -- I 2 3 Duke Energy. I don't know his role right now. 3 mean, even though Cube didn't really recognize that I 4 would be the single point of contact with Duke Energy as 4 But, yes, when I refer to the executive that got 5 the e-mail on August 23rd, that was the e-mail from 5 it relates to the commercial transaction. 6 Collins to Repko. Q. When you say Cube didn't recognize that, what 6 Q. I'll apologize, if you'll help me with this 7 does --7 8 pronunciation. Is it Dhiaa Jamil? A. You know, typically, you know, it's unusual to 8 9 Α. Dhiaa Jamil? He's an executive with Duke 9 be talking to people about an asset they don't own. They 10 Energy. 10 usually don't do that. It puts us in a really awkward 11 Q. Was there a meeting between Mr. Dhiaa Jamil and 11 position. 12 12 Mr. Repko, on the one hand, and Kristina Johnson and You know, really, to tell you the truth, what 13 Mr. Collins at Cube, on the other, on August 8, 2016? 13 should have been happening there, if someone wanted to 14 A. If there was, I was not familiar with it. 14 enter into a PPA with us, it should have been someone Q. Fair to say that you don't know what was 15 15 from ALCOA or someone that owned the power plant. It's 16 discussed at that meeting, if there was one? 16 unusual for us to engage on a very deep level as it 17 A. That's fair to say. 17 relates to someone who is a prospective owner. There's a 18 Q. Okay. Do you have the binder of documents that 18 lot of prospective owners out there. 19 I sent over? 19 And we see this very, very frequently at the 20 20 hydros at the Carolinas. So I had to be cautious about A. I do. 21 Q. Sorry for the -- on this paper. 21 how we approached this subject. But, essentially, I 22 Can we turn to Tab 194 when you have a moment? 22 introduced myself to John, and just let him know that I'm 23 the person that he'd be talking to going forward. A. Okay. I'm there. 23 24 Q. Okay. And you referenced an e-mail from 24 But I Squared Capital was well-connected. We had 25 Mr. Collins to Mr. Repko. Is this the e-mail you were 25 done, I believe, previous transactions with them at Page 27 Page 29 the executive level. Cube Hydro also, Kristina 1 referring to? 1 2 A. I think so. Yes. Yes. 2 Johnson, was well-connected. Knew a lot of our 3 Did I say August 23rd? 3 leadership folks. 4 So there was frequent communication between I 4 Q. Yes, sir. 5 A. Yeah. 5 Squared, Cube, and our upper management, which again Q. And do you know what happened after this e-mail? is somewhat unusual. 6 6 7 7 A. All I really know is that a couple days later I Really, you know, because of Cube's connection, I 8 was assigned commercial responsibility for this 8 would have to say, I hate to admit this, but they 9 transaction, for this project. 9 probably received a little bit better treatment, maybe 10 Q. And what does that mean, when you say you were 10 favorable treatment, compared to most potential buyers 11 assigned commercial responsibility? What was it that we deal with; but that's the way it was. That's the 11 12 you were supposed to do? 12 way it went down. A. I would work with this gentleman, Mr. Collins, 13 13 Q. In what way did they receive better treatment? A. Well, I mean, they have direct access to our 14 contact him, and hear what he has to say and talk to him 14 15 a little bit. 15 executives in a lot of ways, which is definitely better 16 We have to be cautious, because frequently we 16 treatment. 17 have people call and want to sell stuff they don't own. 17 And, in addition to that, like I said, it's 18 And, you know, I'm talking to him about him trying to 18 unusual for -- there's a lot of folks out there looking 19 sell something that he's not the owner of, so I have to 19 into buying power plants. And they like to get as much 20 be careful of that. 20 information as to prospective buyers as they can, which 21 But I reached out to John. And I don't have all 21 makes sense. 22 the details, but we started communicating between 22 So we have to be cautious. If I was sending 23 voicemails, and e-mails, and phone calls. And, 23 John a price signal that was either high or low, that 24 essentially, started working on what their interest might 24 could impact the transaction with ALCOA. So, you know, 25 be. 25 it's like someone trying to sell your neighbor's house.

	Page 30		Page 32
1	And so from a commercial perspective, we have to make	1	about Narrows, also.
2	sure that we're cautious with these types. We did this a	2	Q. When you say, "some talk about," do you recall
3	lot.	3	what he said about
4	We get a lot of lot of folks call us and ask	4	A. No. I don't recall what he said.
5	us a lot of questions about power plants, and how much we	5	Q. And do you recall whether he
6	would enter into a PPA form and stuff like that, as we	6	A. The general, the general call seemed to say that
7	put a bid together and stuff like that; because, if you	7	he was calling as commercial representative of Cube, and
8	know what kind of PPA you're going to get, it helps us	8	that they were interested in potentially selling the
9	with your evaluation.	9	output from the plant once they owned it.
10	So they were treated I don't really like	10	I think we probably talked about both PURPA as
11	saying it; but they received favorable treatment.	11	it relates to the pre-PURPA machines, and also we
12	Q. So the situation you're talking about, it sounds	12	probably talked about non PURPA agreement as it relates
13	like you're talking about a situation where folks are	13	to Narrows.
14	approaching Duke and saying I'm interested in bidding on	14	Q. Going forward for either reference, do you mind
15	a project. But how common is it to speak with someone	15	if I call High Rock, Tuckerstown, and Falls, the PURPA
16	who's already under contract to purchase an asset?	16	machine?
17	A. I don't know how often we do that. You know,	17	A. That's fine.
18	any time there's a potential transaction going on, it	18	Q. And do you recall what your response, if
19	just puts us in a difficult position. We have to be	19	anything, was to him on that phone call about his desire
20	careful that we're not we're not doing something that	20	their desire to sell power to you?
21	could harm either one of the parties, either the buyer or	21	A. We talked about it in general.
22	seller.	22	What I tried to do is a few days later I sent
23	Typically, when we're talking about a PPA, we're	23	him a letter trying to summarize the summarize the
24	talking with the owners. In fact, I would say always we	24	conversation. So, essentially, I sent a letter on the
25	talk to the owners.	25	21st of September.
	Dogs 21		Dage 22
1	Page 31 Q. And do you have any knowledge of what the	1	Page 33 Q. Well, let's just fish through a few documents
2	discussions were between, if any, between Cube and Yadkin	2	here. Hopefully, we won't have to jump around too much;
3	about whether Cube was authorized to speak to Duke?	3	but let's go to 126.
4	A. I know nothing about that. If that was the	4	A. I apologize. What number was that?
5	case, I never received anything from ALCOA on that.	5	Q. Sorry. 126.
6	Q. Did you ever request any information about that?	6	A. Thank you. Okay.
7	A. No.	7	Q. All right.
8	Q. Just one moment. I'm sorry.	8	So flip to the you see there's some Bates
9	A. Sure. No problem.	9	numbers at the bottom of the page?
10	Q. You said shortly after it was assigned to you,	10	A. Yes.
11	you had a discussion with John Collins about what his	11	Q. It has Duke and 0021. And the second one, 22?
12	interest might be. Do you recall what he said that	12	A. Yes.
13	interest was, what Cube's interest was?	13	Q. So, if you look on the bottom there, it looks
14	A. Yeah. I think at that time we had a	14	like it's an e-mail to John Collins from Matthew E.
15	conversation. I believe it was in September. It was our	15	Palasek?
16	first call, if I remember correctly.	16	A. Yes.
17	And he said that they would like to once they	17	Q. Who's Matthew Palasek?
18	owned the facilities, I think, that they would like to	18	A. Matt is in corporate development. I think he
19	sell the power to Duke Energy. I don't recall the exact	19	was involved. I'm not sure what level; but he was
20	phone call, but it was along those lines.	20	involved in looking at buying the hydros for Duke Energy.
21	Q. Did he indicate whether he wanted to make a	21	So Matt was probably the point of contact
22	PURPA sale or non PURPA sale of power from the three	21	between Duke and ALCOA as part of the ALCOA's wish to
23	OF's?	23	sell that asset.
24	A. Well, I think probably he did. Yes. I think	24	Q. And so would he have been involved in the
	there was some talk about also, we probably talked	25	discussions between ALCOA and Duke?
	and some carrie model arbot we browned carred		

	Page 34	L	Page 36
1	A. Yes.	1	
2	Q. And it appears from this e-mail that there was	2	that are covered by attorney/client privilege.
3	perhaps a discussion between John Collins and Mr. Palasek	3	BY MR. DOWDY:
4	on the 24th, if I'm doing the math right?	4	Q. Yeah. Don't tell me what you said to your
5	A. Okay.	5	attorneys. I don't want to know that. I just want to
6	Q. But you weren't on that call it doesn't sound	6	know at a high level what the initial
7	like?	7	MS. FENTRESS: Or what your attorney said to you.
8	A. No.	8	BY MR. DOWDY:
9	Q. And you don't know what happened on that call?	9	Q. No. I'm not that nosy. I don't want to know
10	A. No.	10	any kind of conversations with attorneys.
11	Q. And it looks like Mr. Palasek indicates that you	11	I just want to know what the initial review
12	will be the point of contact for discussion on a	12	process involved in a non privileged, non legal way.
13	potential PPA?	13	A. So what I would do in a situation where I'm
14	A. That's correct.	14	assigned something like that, I would put a team
15	Q. All right. So that's when you come into the	15	together, and set up probably some calls, and talk about
16	loop?	16	the project and what we're looking at.
17	A. August 25th, 2016.	17	There would be attorneys involved, analysts,
18	Q. Okay. And then, just flipping forward as	18	folks like that. And we would some manager folks
19	involved in the case with e-mails, it looks like	19	probably. And we would talk about the potential
20	Mr. Collins then writes you. Does that appear to be the	20	opportunity and put a plan in place and what we were
21	e-mail you received from John Collins at the bottom of	21	going to do next.
22	the page?	22	Q. How long did that process take to do the
23	A. No. I think I was copied on it. I think the	23	initial?
24	e-mail was to Matt.	24	A. It varies depending on what the project is.
25	Q. I apologize.	25	Q. So for a project like this one, how long would
	D 22	•	D 27
1	Page 35 The second paragraph says, Mike, Nice to meet	1	Page 37 the initial review process take?
1 2	The second paragraph says, Mike, Nice to meet		the initial review process take?
	8	1	the initial review process take? A. Say probably couple weeks maybe. Lot of times
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Page 40 Page 38 1 A. He's a gentleman, business development manager 1 internal discussions you were having at the time? 2 for Duke Energy. He does primarily solar. A. Let's see. That date, September 6? 2 Q. Okay. It looks like internally this may be the 3 3 Q. Yes, sir. 4 e-mail where Mr. Freeman -- if you look at the e-mail A. I don't really recall what we were doing at that 4 5 August 25, 2016 at 2:01 p.m., it looks like this is where 5 time, specifically; but we would have been getting a 6 Mr. Freeman is internally assigning it to you; correct? 6 legal review of what the transaction might look like, 7 A. Yes. doing some initial analysis, things like that. 7 8 Q. All right. So now, if we go -- sorry for all Q. I understand. 8 9 the flipping around. But if we go back a couple to --9 Sounds like you were also dealing with a storm 10 let's see here, 125. 10 at the time? 11 And I'll just ask you to look at that and let me 11 A. Yes. Not the last one on this project. In 12 know if you recognize that correspondence? 12 Florida, we keep time based on hurricanes. Yeah. I 13 A. I do. 13 remember that. 14 Q. In your own words, would you describe it for me? 14 Q. From the news, it looks like you're always A. Sure. I asked John a question of when they 15 fixing lines somewhere based on a hurricane or snow 15 16 expected to close on the assets. 16 storm. 17 Q. Are you okay? 17 All right. Now, I believe earlier you 18 referenced a letter you sent. And that's the next thing 18 A. Yeah. I'm -- my laptop is plugged in, but it 19 doesn't look like it's charging. 19 I want to look at, and that requires some flipping. 20 MR. DOWDY: It's okay. We're due for a break 20 That's all the way back at Tab 33 or 34. 21 anyway. Let's go to 33 first. Okay? Are you there, 21 22 THE VIDEOGRAPHER: It's 11:06 a.m. We're going 22 sir? 23 off the record. 23 A. Iam. 24 (Whereupon a discussion was held off the record.) 24 Q. Sorry. Sorry. 25 THE VIDEOGRAPHER: The time on the monitor is 25 I want to make sure I don't start asking before Page 39 Page 41 11:15 a.m., and we're back on the record. 1 1 you get there. 2 BY MR. DOWDY: 2 Okay. So this is an e-mail from you to Mr. 3 Q. Mr. Keen, are you ready? 3 Collins on 9/21/16; is that correct? A. I am ready. Thank you. A. That's correct. 4 4 5 MR. DOWDY: Kendrick, everybody on your side 5 0. And it indicates that you're sending a letter to him. You're attaching it, and it was also mailed; is 6 here? 6 7 MS. FENTRESS: I believe so. 7 that right? 8 BY MR. DOWDY: 8 A. Oh, yeah. Yeah. Yeah. Q. All right. I will commence with the Q. If you flip to 34, I'll ask you if that's a copy 9 9 10 awkwardness. All right. 10 of the letter? 11 I believe we were looking at 125, Mr. Keen. And 11 A. That is a copy of the letter. 12 just to keep us moving along really quickly, the bottom 12 I'm here. 13 one is a September 6 e-mail between you and Mr. Collins. Q. I'm just looking at something. I apologize. 13 14 And it looks like you asked him when Cube was expected to Okay. 14 Α. 15 close on the assets; is that correct? 15 Q. All right. 16 A. Yes. 16 So what was the next step after this letter was 17 Q. And then he writes you back and indicated a 17 sent? 18 November 1st, 2016 close, is that correct, or approximate A. In mid-October, we received a response from John 18 19 close? 19 Collins. I think we received it around October 11th, but 20 A. That's correct. it was undated. 20 21 Q. And he asks for an update on your internal 21 Q. Okay. And, actually, we can look at that. 22 discussion? 22 Let's go to Tab 87. 23 A. I'm at Tab 87. A. Yes. 23 24 Q. And I don't want to know the substance and what 24 Q. Okay. And is that an e-mail sending a response 25 privilege may have been. But what was the nature of the 25 letter to you?

	Page 42		Page 44
1	A. Yes.	1	longer than they think. And that would be the case here,
2	Q. And then take a look in Tab 88. Is that the	2	too.
3	letter itself?	3	It was something that was to give you an
4	A. Yes.	4	example, if they wanted us to calculate what it cost for
5	Q. Did you understand that in the October 11th	5	when they thought they were going to own it, it would
6	letter, he's disagreeing with certain things you said in	6	have been in October or November, something like that.
7	the September 21st letter?	7	They didn't end up owning it until the first quarter of
8	A. He was agreeing with some and disagreeing with	8	2017.
9	others. Yes.	9	We didn't know if it was going to close or not.
10	Q. What did you understand him to be disagreeing	10	There's a lot of I'm sure you're aware, there are a
11	with?	11	lot of hurdles you have to overcome to get to the
12	A. I don't think they felt like the organized	12	closing. We weren't sure they were going to close or
13	exception was valid, I guess.	13	not. A lot of these end up not closing.
14	Q. What do you mean when you say, "organized	14	We were kind of a little bit of wait-and-see to
15	exception?" What language are you referring to there?	15	see when the transaction would actually happen.
16	A. The organized market exception. So it's my	16	Q. I'm just looking, and it's Exhibit 34, if you
17	understanding that, if a qualified facility has access to	17	want to?
18	organized markets, that there potentially could be an	18	A. Exhibit 34?
19	exception on the higher use obligation purchaser.	19	Q. Yeah. Before you flip back, though, here's what
20	My responsibility in the organized market is not	20	I'm trying to look for and understand. How was it
21	to make that decision, but it's my responsibility to be	21	communicated to John Collins that we're in a
22	able to answer the attorney's questions as it relates to	22	wait-and-see, we're not done, this is all prospective?
23	that.	23	A. I think that can you repeat that question?
24	As a commercial person, my responsibility would	24	Q. Yeah. I think that's fair.
25	be to know whether or not those assets were being sold	25	How was it communicated to John Collins that
	Page 43		Page 45
	into an organized market. But the decision on whether or	1	from Duke's perspective any discussions were anticipatory
	not there's an exception on the PURPA for that, that	2	to Cube's owning those facilities?
3	would be a legal question.	3	A. That would have probably been done on the phone.
4	Q. I apologize. My home phone is ringing in the	4	Q. And do you think you're the person that told him
5	background. It will stop in just a second.	5	that?
6	And then what aspects of the of your letter	6	A. Yes.
7	did you understand him to be agreeing with?	7	Q. And do you know whether it was before or after
8	A. Well, we both agreed they didn't own the power	8	these letters, or before or after the September 21st
9	plants and ALCOA did. I believe that I think we both	9	letter?
10	agreed that ALCOA I believe I had known at that time	10	A. I think it was probably before.
11	that ALCOA, the current owner at that time, had certified	11	Q. Do you remember what his response was?
12	the plants as qualified facilities. I think we both	12	A. I don't.
13	agreed on that.	13	Q. Let me ask you this: Why wouldn't that be
14	I don't know what else. I can read the letter,	14	communicated in writing? A. To us, it's not really a big revelation that we
15 16	if you'd like and see what else they agreed to. Q. So what was your understanding after receiving		A. To us, it's not really a big revelation that we wouldn't be transacting with somebody who doesn't own the
17	Q. So what was your understanding after receiving this letter? Were discussions going to be ongoing, or	16	power plant. I think he understood that they didn't own
18	had that were discussions over, as far as you were	18	the power plant. And he didn't really know when the
19	concerned?	10	closing was going to happen.
20	A. Well, from a commercial perspective, I felt like	20	So we don't know you know, you can't really
21	we would do some initial work to be prepared for when	20	calculate costs, or put a transaction together, if you
22	they owned the plants, so we could move forward with the	22	don't even know what the start date is. You know, so
23	potential transaction.	23	I mean, from a commercial perspective, I don't think that
24	But as happened, my experience has been a lot of	24	was a big revelation for anyone.
25	folks who have been trying to buy plants, it takes a lot	25	Q. You talked about hurdles they might have to
			~

1	Page 46 clear to finalize the transaction. In your view, what	1	Page 48 To give you an example, if John had figured out
	are the major hurdles?		during my discussions that the transaction would be
3	A. I don't know. Someone in the M&A group would	3	better or worse based on my conversations, he may have
4	know that better, but I suppose they would have to get	4	changed part of his process with ALCOA. So we just have
5	the PURPA license transfer. I'm not sure all the the	5	to be very careful about that.
6	legal folks or the M&A people could answer what they	6	We also get a lot of people who are looking at
7	would have to offer to get to a closing.	7	power plants. And before they do that, they like to get
8	I have been involved in a few acquisition stuff	8	some actual pricing signal that could help them determine
9	years ago, but I'm sure there were some hurdles that they	9	the value of the asset. So we try to be cautious of
10	had to overcome. And I'm not sure that the State of	10	that. And it can be very time consuming to respond to
11	North Carolina was real supportive of the PURPA license	11	all the folks who are interested, too.
12	transfer either.	12	Q. At any point, was a hard line communicated to
13	Q. What does that mean, when you say that North	13	Mr. Collins, you know, we're not going to enter into a
14	Carolina was not supportive of the license transfer?	14	PPA with you strike that. We're not going to
15	A. It's my understanding, just from industry	15	negotiate a PPA with you until you own it?
16	literature and stuff like that, that North Carolina had	16	A. I think that's true. I can't recollect I
17	some issues with ALCOA and the way they operate its power	17	wouldn't use the word, "hard line." But I think we made
18	plants.	18	it pretty clear to John that, you know, if the owner of
19	And, if I recollect, the lawyers could probably	19	the facility wants to talk to us about establishing a
20	answer it better. I do believe they might have	20	LEO, or about entering into an agreement, we're happy to
21	intervened in the license transfer, or got involved in it	21	talk to him, and he wasn't the owner.
22	somewhat. I don't remember the details of that.	22	Q. And how was it made pretty clear to Mr. Collins?
23	But there were definitely, I think I mean,	23	A. I don't know. I mean, we talked briefly about
24	there are certain things you have to get done before you	24	when they thought they were going to end up owning the
25	get to closing. So, when I said hurdles to overcome, I	25	power plant.
	D. 44		D (0)
1	Page 47 wasn't really specifically talking about what those are;	1	Page 49 It was very important for us to have that
	0		
	wasn't really specifically talking about what those are;		It was very important for us to have that
2	wasn't really specifically talking about what those are; because I'm not really familiar with them.	2	It was very important for us to have that information before we put an analysis together. And,
23	wasn't really specifically talking about what those are; because I'm not really familiar with them. And their closing was delayed three or four	2	It was very important for us to have that information before we put an analysis together. And, like I said before, we could potentially have an impact
2 3 4	<pre>wasn't really specifically talking about what those are; because I'm not really familiar with them. And their closing was delayed three or four months at least. So it was longer than they thought it</pre>	2 3 4	It was very important for us to have that information before we put an analysis together. And, like I said before, we could potentially have an impact on the acquisition, and in a positive or negative way
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	Page 50		Page 52
1	Q. Was that Duke's position at the time?	1	· · · · · · · · · · · · · · · · · · ·
2	A. Yes.	2	an entire document, stop me, and I want you to have time
3	Q. And it says, You further inform me that Cube	3	to do it.
4	Yadkin is considering certifying that three smaller units	4	A. Sure.
5	as qualifying facilities under the Public Utilities	5	Q. But I'm looking at the last if you look at
6	Regulatory Policies Act of 1978, PURPA. In that regard,	6	the very page 88 at the bottom. It's Duke 758 is the
7	I informed you that to the extent Cube Yadkin approached	7	page number.
8	Duke under PURPA, and that under PURPA's requirements,	8	And the last paragraph, third sentence, I think,
9	Duke would likely have no obligation to purchase any	9	it says, We would anticipate that such discussions would,
10	output of energy or capacity from the Cube Yadkin system	10	among other things, address the statement in the
11	units that may be certified as qualified facilities.	11	September 21 letter that under PURPA's requirements Duke
12	And that was also Duke's position at the time?	12	would likely have no obligation to purchase any output of
13	A. Yes.	13	energy or capacity from the Yadkin system units that may
14	Q. Let me see if I understand this correctly.	14	be certified QF?
15	That position it's my understanding just a	15	A. Right. Yes.
16	moment.	16	Q. While electric utilities may petition FERC to be
17	If I understand the nature of the objection,	17	relieved of their mandatory purchase obligation under
18	that position is a legal position, and you're not the	18	PURPA, it does not appear that FERC has issued an order
19	right person to ask about that; is that correct?	19	relieving Duke of such obligation, or that there are any
20	A. Which part of the letter are you referring to?	20	other applicable exceptions or exemptions.
21	Q. That Duke would likely have no obligation to	21	So that's the part of the letter
22	purchase any output of energy or capacity	22	A. Sure. I read it.
23	A. Like I said before, it's a legal opinion,	23	So what's your question?
24	whether or not the market exception would apply. It's my	24	Q. Did you understand that to mean that he was
25	responsibility to determine whether or not the assets had	25	disagreeing
	Page 51		Page 53
	been sold into an organized market.	1	A. Yes. Uh-huh.
1 2	<pre>been sold into an organized market. Q. And had you determined whether they had been</pre>	1 2	A. Yes. Uh-huh. Q. And I'm not going to ask you about the
2 3	been sold into an organized market. Q. And had you determined whether they had been sold into an organized market?	2 3	 A. Yes. Uh-huh. Q. And I'm not going to ask you about the legalities of it, and I intend it to be a factual
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Page 56 Page 54 1 production, I want to know what that call was. 1 at Cube and executives at --A. I don't remember that call. A. There was a timeframe when I was made aware of 2 2 Q. You don't remember it? 3 that. Yes. I mean, it was pretty obvious. We were 3 4 Nope. 4 getting -- you know, this was a very unusual transaction Α. 5 Q. And so I take it that you don't know what was 5 or project, in the fact that the executives were very 6 discussed? involved. Probably more involved than anything I've ever 6 7 A. That's true. worked on. I've been doing this a long time. 7 Q. Just so we get our timeline here, let's go to 8 Q. So you responded to Mr. Collins' letter, and 8 9 195, Tab 195, if you would. Let me know when you're 9 that would have been on about October the 14th; correct? 10 there. 10 A. That's correct. 11 11 A. I'm here. Yup. Q. And we've got that letter. That's at Exhibit 12 Okay. And does this appear to be an e-mail 12 83? 0. 13 between Kristina Johnson at Cube, and Dhiaa Jamil at Okay. I'll go there. 13 Α. 14 Duke? 14 0. Or Tab 83. 15 Yes. I'm there. A. Yeah. I see the -- I see the e-mail. 15 Α. 16 Q. Do you have any -- any knowledge of what Q. So just confirm for me, if you will, is this a 16 17 happened at Duke after this e-mail was received? 17 copy of the letter that you sent to Mr. Collins on the 18 A. Give me a second to read it. 18 14th? 19 0. Absolutely. 19 Α. Yes. 20 A. Okay. I apologize. What was your question 20 Q. And it looks like, if you look at the second 21 again? I've read it. 21 paragraph, that Duke is maintaining that it's exempted 22 Q. So do you know what, if anything, happened 22 from purchasing from the Yadkin facility under PURPA; is 23 internally at Duke in response to this e-mail? 23 that right? 24 A. Not really. I think the next milestone was a 24 Α. That's correct. 25 letter I sent to John Collins on the 14th, which I think 25 0. And so what happens after this? What happens Page 55 Page 57 1 was, yeah, three days after. I'm kind of bouncing around 1 after this letter? What's the next step? A. I don't know. I don't know what happened after 2 time-wise, actually. 2 3 This was before the October 11th letter we just 3 that. It looks to me like it was quiet for quite a while 4 went over, but I think the next milestone after this --4 between us. 5 well, I guess the October 11th letter we got from John 5 I think -- I think, if you look at the last 6 and my response to him I think on October 14. sentence, that's probably, yeah. That's correct. I 6 7 Q. I apologize for jumping around. 7 think after the mid-October 2016 letter, we had very A. You don't have to apologize. 8 8 little interaction from Cube for maybe five months, or Q. My question is: Did anybody inform you of the 9 something like that. g 10 e-mail being received by Mr. Dhiaa Jamil? 10 I think that was a pretty quiet winter as 11 A. It's hard to recollect. I mean, like I had 11 relates to this project. If you look at the last 12 mentioned before multiple times, these guys were Cube and 12 sentence there, it basically says, once you own the 13 I Squared Capital were very well-connected. And there 13 plant, we'll be happy to talk to you about, you know, 14 was a lot of upper management interaction on this 14 what our -- you know, what our PURPA obligations are, 15 transaction. So I'm not surprised about this e-mail, but 15 whether you agree, or disagree, and what potential 16 I don't recollect anybody telling me about it. 16 transactions you would be interested in. 17 Q. Throughout the course of your discussions with The fact that they owned four plants, it was 17 18 always the potential for the PURPA or non PURPA 18 Cube, was anyone telling you that there would have been 19 -- strike that. 19 transaction or something along those lines. So I think 20 Throughout the course of your discussions with maybe John took it to heart and said, let's get this 20 21 Cube, were you ever made aware of the substance of 21 thing closed. Let's get this power plant, and then we'll 22 negotiations -- I'm going to strike it again. I just 22 re-engage with these guys. 23 can't ask a good question here. Q. So go with me to Tab 171. 23 24 Throughout your discussions with Cube, were you 24 Α. Okay. 25 brought into the loop on discussions between executives Q. Let me know when you're there, please, sir. 25

	Page 58		Page 60
1	A. I'm at Tab 171.	1	hurricane. It says, Dear David, I hope Stella isn't
2	Q. Now, this appears to be correspondence between	2	causing too many problems for you.
3	David Fountain and Kendal Bowman.	3	A. Yeah. That's not the last one; but, yeah.
4	And just for the record, who is Mr. Fountain?	4	Q. It says, We successfully closed on February 1 on
5	A. I believe David was the I think he was the	5	the hydro plant.
6	Duke Energy Carolina state president at that time.	6	Do you see that?
7	Q. And who is Kendal Bowman?	7	A. Yes.
8	A. Kendal is one of our attorneys up there. I	8	Q. And it references a meeting with Mr. Fountain,
9	think she works on rate cases and things like that with	9	Steve Jester, and Kendal Bowman at Duke?
10	the commission. But I don't know in detail what she	10	A. That was probably the meeting from the previous
11	does, but she's an attorney.	11	tabs we talked about. But I don't know how the dates
12	Q. And it looks like there is it says the e-mail	12	line up, because yeah. I don't know. That was
13	is sent on November 9th, 2016, so three-ish weeks after?	13	November I think. So this is March. Maybe not. Okay.
14	A. Let's see. I see November 8. Let's see.	14	Do you have a question?
15	November 8, that's a voicemail or something.	15	Q. You were talking about meetings there. You
16	Q. Yeah. It actually has my favorite about any	16	don't know which meeting it's referring to?
17	voicemail, it says, This message	17	A. No. No. Like I said, the executive involved in
18	A. Yeah. So let's see. Kendal and David on	18	here was something I had never seen before. So I was not
19	November 9th.	19	surprised I was not involved.
20	Q. I'm not asking anything about the redacted for	20	It looks like there's some references to
21	privilege part. Don't guess about that.	21	attorneys, you know, in here, Kendal Bowman and Charlotte
22	A. Okay. So what was your question?	22	Mitchell.
23	Q. So go to the top of the e-mail. The background	23	I apologize. I was actually reading from that.
24	for our meeting with Cube this morning.	24	Q. Kendal Bowman and Charlotte Mitchell?
25	So it sounds like there was some kind of meeting	25	A. Yeah.
-	Page 50		Page 61
1	Page 59 with Cube about three weeks after you sent your letter to	1	Page 61 Q. And then it references, it says, Since our
		1 2	
	with Cube about three weeks after you sent your letter to	2	Q. And then it references, it says, Since our
2	with Cube about three weeks after you sent your letter to Mr. Collins.	2 3	Q. And then it references, it says, Since our meeting with you, Steve Jester, and Kendal Bowman, in
2 3	<pre>with Cube about three weeks after you sent your letter to Mr. Collins. A. Yeah. I wasn't I wasn't at that meeting.</pre>	2 3	Q. And then it references, it says, Since our meeting with you, Steve Jester, and Kendal Bowman, in your offices, we have had several good meetings with
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	Page 62		Page 64
1	Q. Okay. And let's see. Then you see where it	1	involved with these discussions in any way. I was not
2	says, the next paragraph, At Kendall's suggestion we will	2	involved in this at all.
3	be filing an application for registration	3	Q. Were you involved in providing the NDA or the
4	A. Yes. I'm familiar with that.	4	PPA for Cube?
5	Q. Do you have any reason to disagree with that	5	A. Yes.
6	statement or think it's inaccurate that it was Kendal's	6	Q. And when did you first hear about needing to do
7	suggestion?	7	that?
8	A. No. I don't know that was only Kendal's	8	A. I believe it was March 20 of 2017. So it looks
9	suggestion. I think that to get you can get approval	9	like it would be about five days after this e-mail.
10	in a facility status, and you will have an opportunity to	10	Q. So let's go to Tab 104, if we can.
11	sell either RECs. So I think it was it was important	11	A. I'm at Tab 104.
12	to Cube that they could get that approval, then they	12	Q. Okay. These are communications between
13	could potentially sell RECs out of this facility to us.	13	you're not on these communications; is that correct?
14	But, yeah, I think that we didn't you know,	14	But these are communications between Cube and Duke?
15	we didn't our position on that was, if they could get	15	A. Yes.
16	renewal energy facility status then we would buy their	16	Q. And Cube inquires about an NDA; but, you know,
17	RECs under RPPA, if we ever got that transaction.	17	to the best of your knowledge, you didn't know anything
18	Q. Okay. And the next paragraph references a	18	about it at the time; right?
19	meeting with Eli Hopson, and that was Cube's in-house	19	A. Let's see. No. I don't think I was aware of
20	counsel; right?	20	that at that time, no. I don't recollect that. I don't
21	A. Are you asking me?	21	think I really started getting involved in that piece
22	Q. Yes, sir. Do you know?	22	until March.
23	A. I believe he was I don't know if he was	23	Q. And all right. Let's let's skip to 123.
24	inside counsel or outside counsel, but I know that he	24	A. Which one are we at, 123?
25	represented, or at least I thought he represented, Cube	25	Q. Tab 123.
	Page 63	-	Dogs (5
1	Yadkin.	1	Page 65 A. I'm there.
1 2	8	1 2	-
	Yadkin.		A. I'm there.
2	Yadkin. Q. And Joann Sanford was also Cube's counsel;	2	A. I'm there.Q. And this is Bates number 16. It looks like
2 3	Yadkin. Q. And Joann Sanford was also Cube's counsel; right?	2 3	A. I'm there.Q. And this is Bates number 16. It looks likeyou're sending Donna Ortega a request to meet about the
2 3 4	<pre>Yadkin. Q. And Joann Sanford was also Cube's counsel; right? A. I'm not familiar with that name.</pre>	2 3 4	 A. I'm there. Q. And this is Bates number 16. It looks like you're sending Donna Ortega a request to meet about the forward Cube Hydro new owner assets.
2 3 4 5	 Yadkin. Q. And Joann Sanford was also Cube's counsel; right? A. I'm not familiar with that name. Q. Okay. And Charlotte Mitchell, was she Cube's 	2 3 4 5	 A. I'm there. Q. And this is Bates number 16. It looks like you're sending Donna Ortega a request to meet about the forward Cube Hydro new owner assets. Looks like a meeting for March 1st, 2017. Do
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	Page 66		Page 68
1	Bates Duke number 94? Can you tell me what this is?	1	reaching out?
2	A. This is an e-mail from me to John Collins. And	2	A. I have some of their business cards from some of
3	I have a cover letter for an attachment I sent him to	3	the meetings we had in Carolinas, but I don't recollect
4	talk about a non PURPA PPA at the Yadkin facilities.	4	their names right now.
5	Q. You said it's the first necessary step. Can you	5	I believe that we had sold our South America
6	explain to me what that means?	6	assets to I Squared Capital recently, like maybe 2016.
7	A. Well, maybe it's the next step would have been	7	So, you know, the I Squared folks knew our executives
8	better wording. Yeah. I believe that, you know, you	8	well and they looked like they would reach out to this
9	referenced some of these e-mails between these executives	9	discussion.
10	and meetings ongoing, but I did not know about it.	10	Q. Okay. Okay. All right.
11	I think in those meetings, it looks like there	11	If you flip to 29, is that the letter that you
12	was a discussion of potentially trying to put an	12	sent?
13	agreement together and to pursue a non PURPA PPA.	13	A. Yes. That looks like it, yes.
14	Let's see. This is dated March 22. I was made	14	Q. I want to get a sense, so this e-mail, this is
15	aware on March 15 of 2017 that Dave Fountain would be	15	something you sent to you did send this to
16	taking the lead at the discussions, but would be getting	16	Mr. Collins; right?
17	involved at that point.	17	A. That's right.
18	So that was on March 15. And so, as part of	18	Q. Now, were there discussions going on the
19	those conversations, we agreed to send them a letter	19	discussions for the non PURPA PPA, were those mostly
20	agreement, and we also agreed to pursue a non PURPA PPA.	20	between you and Mr. Collins; or were there sort of
21	Q. Let's go back to something you said there. John	21	communications which you weren't involved?
22	Fountain, why was he getting involved?	22	A. I think at this stage, I was communicating with
23	A. David Fountain. I think it goes back to what we	23	John regularly, yes.
24	talked a few times in that Kristina Johnson and others	24	Q. Okay. Okay. And was all of that in writing, or
25	were, you know, putting pressure on the executive team.	25	was some of it verbal?
	Page 67		Page 69
1	Page 67 And so I think, at some point, one of David's bosses, I	1	Page 69 A. It was not all in writing.
1 2	8	1 2	
	And so I think, at some point, one of David's bosses, ${f I}$		A. It was not all in writing.
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	Page 70		Page 72
1	N-O-C, form to establish a legally enforceable	1	correspondence, we saw some discussion about an NDA. Do
2	obligation?	2	you know when that was completed?
3	A. Yes.	3	A. May 8th.
4	Q. And I guess what I'm trying to understand is, if	4	Q. Okay. Okay. And trying to sort of understand.
5	that's so, then why is it necessary to include this	5	In other words, what happened? Why did it take until May
6	language in a letter?	б	8th to get an NDA in place?
7	A. I believe the again, as you recall, there	7	A. Well, let's see. On we sent this letter, the
8	were discussions, I guess, in February, whatever	8	letter agreement, on March 22. We received a red line
9	timeframe, between executives at Duke and Cube Hydro that	9	well, I don't know if it was a red line or response; but
10	I wasn't involved with.	10	we received some comments on March 31st. We sent a
11	As a result of those discussions, it was clear	11	revised letter agreement two weeks after that on April
12	to me that the two parties had agreed to, as this	12	12th.
13	language says, to talk about a non PURPA PPA. And I	13	We received another red line from Cube a week
14	think both parties probably, but definitely Duke, had	14	after that. And then one week after that, on April 25,
15	agreed to do a non PURPA discussion. And I think the	15	the letter of agreement was finally signed.
16	parties with the attorneys involved probably wanted to	16	At that point, on May 8th, which is about two
17	MS. FENTRESS: I'm going to object.	17	weeks later, I'm sure some going back and forth on the
18	THE WITNESS: Yeah. I'm sorry. Thanks,	18	language, the CA was signed.
19	Kendrick.	19	Q. Is a CA, a confidentiality agreement?
20	I think we agreed to do a non PURPA discussion	20	A. Yes, sir.
21	with them. I think Cube would like to have done that,	21	Q. And it's the same thing as an NDA, correct, a
22	because that way they could sell 200 megawatts to us	22	non disclosure agreement?
23	instead of 100 megawatts to us.	23	A. I think so. You can use them interchangeably,
24	So I think the idea was to put an agreement in	24	but I don't know if there would be a difference.
25	place that would set up the framework for us to engage	25	Q. Hey, I'm a lawyer I don't either.
	Page 71		Page 73
1	in non PURPA discussions and that wouldn't impact	1	My question was whether you refer to them
2	potential PURPA issues, parallel PURPA issues. So	2	interchangeably. I do. All right. Thanks.
3	that's why I think both parties agreed to execute the	3	Can we take like a two to three minute restroom
4	letter agreement and move forward non PURPA	4	break?
5	discussions.	5	MR. ALLEN: Sure.
6	And I think we just wanted some protections that	6	THE VIDEOGRAPHER: The time on the monitor is
7	there wasn't some type of ulterior motive maybe to try	7	12:21 p.m., and we're going off the record.
8	to create some type of PURPA issue as it relates to	8	(Whereupon a discussion was held off the record.)
9	these non PURPA issues.	9	THE VIDEOGRAPHER: The time on the monitor is
	BY MR. DOWDY:	10	12:32 p.m., and we're back on the record.
11	Q. So, if I understand correctly, this letter	11	BY MR. DOWDY:
12	relates to the discussions occurring on or after the date	12	Q. Welcome back, Mr. Keen.
13	of the letter; is that right?	13	By the way, when we get time and we need a
14	A. Yes. And this was essentially the beginning of the process to negotiate the letter. I think we would	14 15	break, or if you get hungry, just let me know. I tend to keep going, but I don't mean anything inconsiderate by
15	formalize what had been discussed at the executive level	15	it. But I imagine we'll finish by the middle of the
17	that I was involved in prior to that.	17	afternoon, but one never knows. Let me know when you
18	Q. And do you recall whether Cube signed the letter	18	need a longer break to grab a bite to eat or anything.
19	right away, or whether they negotiated the letter?	10	So we last left off we were talking about an NDA
20	A. They did not. I believe no. They sent me	20	or CA. And you had sent a copy to Mr. Collins on I
20	some comments.	20	believe it was the 8th of May, 2017; correct?
	Q. And, ultimately, did you guys agree on a letter,	21	A. Can you repeat that question, please?
1 22		23	Q. Did you send the NDA to Mr. Collins on May 8th,
22	and were able to execute one?		
23	and were able to execute one?		
	and were able to execute one?A. Yes.Q. And what happened after the in some previous	24 25	2017? A. I believe that was the date it was executed, I

	Page 74		Page 76
1	5	1	change, you can see how much value it added to the
2	and forth between the parties, you know, marking up the	2	system. That's one of the processes we go through. We
3	language for a while. But, yes, that was when it was	3	go through a lot of others.
4	executed.	4	And this one was an engine trading deal, since
5	Q. And then, what was the next step after that?	5	we didn't have the capacity needed at the time. It was
6	A. So, basically, now we had the letter agreement	6	essentially energy owned transaction, so we were looking
7	with CA. So at that point, I was leading meetings with	7	at the trading markets.
8	the commercial team. We were doing some modeling, some	8	We were looking at new build economics. We were
9	analysis. We were requesting information from Cube on	9	looking at some sensitivity analysis to compare the
10	how we would model the plants.	10	numbers we were coming up with to see how they bounce
11	There's a lot of requirements in your PURPA	11	against say our trading that we had going on at that
12	license, different types of limits they have. So we were	12	time.
13	having to model our system to see how those power plants	13	We were we were over the years, we had
14	would operate within our system.	14	been buying power here and there from the Yadkin assets
15	So we spent a fair amount to do that. We also	15	for years. We were looking back at kind of how that
16	worked on trying to come up with a consensus on what the	16	works.
17	structure should look like. And there was a fair number	17	So we were looking at a whole lot of data, both
18	of data requests to Cube for operational data.	18	external and internal, to try to present an offer to Cube
19	Essentially, at that point, it was my	19	during that time.
20	responsibility to get an agreement together, and go	20	Q. And, as part of that process, it sounds like
21	through the modeling process, the analytical process, the	21	if I understood you correctly, you were requesting
22	approval process, and then draft it, put it in an	22	information mostly from Mr. Andrew Longnecker?
23	agreement, and send it to Cube.	23	A. Well, from Cube, I think he was our contact to
24	Q. When you requested information from Cube, did it	24	get data from Cube. But I was also collecting a lot of
25	provide did Cube provide that information to you?	25	data from a lot of Duke folks on different aspects of the
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1	Page 78	1	Page 80
1 -		1	so the RECs had no value to us either. So, you know, it
2	Q. If you were low on capacity, why were you	2	just made the it just made the product less valuable
3	engaged in discussions for PPA with Cube at the time?	3	to us if we didn't get environmental attributes from
4	A. Well, we weren't low on capacity. I'm sorry.	4	them. In other words, you know, the RECs, the carbon,
5	We were long on capacity. We had plenty of capacity.	5	and stuff like that.
6	So, in a situation where you're like that, and	6	Q. So do you recall generally at the time what kind
7	you're doing a bilateral market based agreement, capacity	7	of rates you were getting what kind of rates you were
8	is not factored into the analysis, it's an energy only	8	paying in the marketplace for energy?
9	transaction.	9	A. I'd have to go back and review the analysis and
10	So, if you think about it, it has to compete	10	all the data we put together. I don't I don't
11	with our assets, as well as, the marketplace. In other	11	remember all the due diligence that went into putting
12	words, if I can buy on the market for 20 bucks, why would	12	those numbers together. There was a significant
13	I pay Cube 30 bucks, or whatever it is?	13	quantity, many iterations. There was a lot going in.
14	So we have to look at the market. We have to	14	Q. I take it the same is true for self generation.
15	look at our own generation and all that; but it had to	15	You don't specifically recall, you know, sort of what the
16	work on an energy basis. We pay too much for it, our	16	cost of that was?
17	customers would be harmed. And in addition to that, we	17	A. Well, you got to remember that's pretty
18	would risk not getting cost recovery.	18	straightforward from when you're looking at just the
19	Q. Yeah. I asked my question incorrectly. I'm	19	energy. You have the cycle plant, renewed, the hydros.
20	sorry; but I appreciate the clarification, Mr. Keen.	20	You know, we got a general idea of what the dispatch is
21	So, if I understand it correctly, and maybe this	21	like. But we did have our portfolio management people do
22	isn't the right way to put it. But Duke could use the	22	a lot of work to model the self generation; but, you
23	energy, but it didn't have any need for the capacity?	23	know, what's on the margin changes day-to-day and as
24	A. No. We didn't have any need for the capacity.	24	prices change.
25	Q. No need for the capacity, but you could use the	25	No question that these hydro assets have a lot
	Page 79	-	Page 81
1	energy output?	1	more value in a high gas environment. And we just
2	A. We could use the energy when it's lower in the	2	haven't been in a high gas environment for a long time.
3	market place, or what we could generate for. And, you	3	Q. And do you recall when you circulated a first
4	know, there was no the other thing we had to look at,	4	term sheet to Cube?
5	Cube was reluctant to give up the environmental	5	A. We sent them our first on August 10th, 2017.
6	attributes at this time.	6	Q. And while so between the time that you
7	In addition to that, they had not received new	1 7	
1 -		7	sent them the term sheet and August 8, were there
8	renewable energy status from the commission. I think	8	continued meetings between Duke and Cube?
9	they still haven't received that. So the renewal energy	8 9	continued meetings between Duke and Cube? A. I don't recall there being any meetings, no. I
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Page 82 Page 84 1 Q. Yes, sir. 1 Maybe you can enlighten. 2 MR. DOWDY: Well, I mean I think in our 2 A. You said I was copied or I wasn't copied? I do not believe you were copied. communications back and forth we sort of -- I 3 Ο. 3 understand Duke takes a more narrow view of it than we 4 I thought you said I was copied on it, and I was 4 Α. 5 thinking I was looking at the wrong one. do. I'm not so much trying to get into the substance 5 6 Let me read this. 6 of what the terms were, just to establish what the 0. Yes. Take a look. 7 7 timeline was, if they didn't work out a non PURPA 8 A. This is July 27. Yes. Okay. I've read it. 8 arrangement, but just to fill in the timeline and what 9 Q. Okay. Okay. 9 it -- what was involved. 10 And it references, well, a couple of things --10 So I mean I understand the part you disagree 11 that Cube is getting frustrated, or at least expressing 11 about relevance, but I don't expect I'm going to spend 12 frustration that they feel it's taking too long to get a a whole lot longer on that. 12 13 PPA. 13 MR. ALLEN: We'll hold off for now, but it seems 14 Were you aware that they were expressing 14 like we kind of are heading down this term sheet proposal request fairly extensively at this point; but 15 frustration? 15 16 A. I think they would wish it had happened sooner. continue. 16 17 Yes. 17 MR. DOWDY: Yeah. I mean, fair enough. Q. And it references a conversation with Dhiaa? 18 18 MR. ALLEN: I mean, it's not what Cube says is 19 A. Yeah. I would expect that this is probably 19 relevant. If you look at the commission order, that's 20 Kendal and Dave are getting ready for a meeting. But I'm what they said the hearing was going to be limited to. 20 21 not familiar with that meeting at all. So we're not deciding what the scope of the hearing 21 22 Q. You don't know if it happened; or, if so, what 22 is. The commission has already said that and the 23 was said there? court of appeals has said that. So it's not our view. 23 24 A. No. I wasn't invited. 24 It's the view of the two tribunals. 25 Q. I understand. I understand. 25 MR. DOWDY: Well, anyway, I don't want to get Page 83 Page 85 A. I'm okay with that. into an argument on the phone. I'm going to move 1 1 2 Let me see one thing. Okay. 2 through this pretty quickly. I do think it's 0. 3 So the next thing you know that happens is that 3 relevant. I can explain it. 4 a term sheet will be sent in early August; right? 4 We can have a lawyer call outside of the witness' 5 Α. Yes. 5 presence, if you want to. Why don't I just try to And without flipping through, fair to say that kind of move quickly through this and then move on to 6 0. 6 7 7 you communicated to Mr. Collins that he would probably what I have to ask next. 8 have a term sheet in August? 8 MR. ALLEN: I'm good with that. That's good. A. I don't know if I was talking to John Collins or 9 MR. DOWDY: I appreciate your congeniality. 9 10 Andrew Longnecker. I can't recollect when they switched. 10 BY MR. DOWDY: 11 MR. ALLEN: If I could just interpose? 11 Q. In any event -- all right. 12 We had generally filed an objection, Joe, about 12 So let's -- I will try to move in just a little 13 13 more quickly, because I think it's documented in the anything related to pricing or term sheets, whether 14 they're related to selling on the market, or whether 14 records. 15 it was related to avoid costs associated with the But I got to find my place again. I apologize. 15 16 PURPA QF requirements. 16 All right. On August 10th 2017, you forwarded 17 We can continue along this line, but it's really 17 the term sheet to Mr. Collins; is that right, Mr. Keen? difficult to see if it has anything to do with whether 18 18 A. I don't -- I sent the term sheet to Cube Hydro 19 or not Cube is entitled to a waiver under the NOC 19 on August 10th, 2017. I don't recollect whether it was 20 20 to John Collins or Andrew Longnecker, or who it was; but form. 21 21 that was the day it was delivered. I can't remember who It seems to me we're chasing rabbits on this one. 22 It doesn't seem relevant. It doesn't seem to me that 22 it was e-mailed to. 23 it's going to lead me to anything that's relevant to 23 Q. And after that, after receiving the term sheet, 24 the limited scope the commission has assigned to this 24 do you know anything about whether there were 25 hearing. 25 communications between Duke executives and Cube

	Page 86		Page 88
1	executives?	1	Q. Okay. Fair enough.
2	A. Yes.	2	And then it looks like $1/3/2018$ Cube sends a
3	Q. Do you know what those discussions were?	3	A. Hold on a second. I got to make a correction
4	A. All I know is that Cube did not like the offer.	4	here. I apologize.
5	Q. And do you know if there was a discussion	5	Q. No. Please.
6	between Kristina Johnson and Dhiaa Jamil	6	A. On October 6th we had a conference call with
7	A. On August 16, Dhiaa Jamil did have a	7	them to discuss the term sheet they had received on
8	conversation with Kristina Johnson, as far as I know.	8	September 25.
9	Q. And do you know what that discussion was?	9	On October 12th, six days after that, Cube
10	A. I don't know the details, but I do know that	10	requested a call with Duke to discuss legal issues. And
11	Cube, I'm sure, didn't like the term sheet didn't like	11	it looks to me like that call was actually held on
12	maybe the pricing or the structure, but they didn't like	12	November 15. So there were calls on November 15. And I
13	something. I didn't think they would like that, so I	13	do not remember those meetings, who was there. I just
14	wasn't surprised at that.	14	don't remember.
15	Q. Okay. Okay.	15	Q. Okay. And then it looks like Cube offers a
16	And then without getting into it, they made a	16	counter term sheet, counterproposal on January 3rd, 2018;
17	counterproposal?	17	is that correct?
18	A. We made a counterproposal, and then they sent us	18	A. Yeah. So we sent them the September 25th offer.
19	a counterproposal. That's correct.	19	And then January 3rd of the following year they
20	Q. And so they sent a proposal to you, and then the	20	responded.
21	parties had a meeting; correct?	21	Q. I don't want to go term-by-term, but can I
22	A. That's correct.	22	generally ask this question? Was the primary
23	Q. And following that meeting, then you sent a	23	disagreement value and length of term?
24	second term sheet; correct?	24	A. Well, I mean, I guess from Duke's perspective
25	A. That's correct.	25	there was. Essentially, the September 25th offer was
1	Page 87		Page 89
1	Q. And that would have been do you know about		1
2	when the second term sheet was sent?	2	
3	A. September 25, 2017.	3	
4	Q. So I had my time incorrect then.	4	Using the methodology for the avoided cost at that time, it did not include the Narrows facility,
	Was there a meeting between Cube and Duke on	5	
6	September 18th, 2017? A. Yes. That was right after Hurricane Irma. It	6	because it simply was a PURPA offer. And the pricing in that offer were based on our avoided costs at the time.
8	hit the Florida panhandle.	8	We did agree, I think in that offer, to buy RECs
	Q. After you sent the updated term sheet, it looks	9	from them, if they did get new facilities status. So the
10	like there was a conference call between Cube and David	10	September 2017 was a PURPA offer; but, you know, they
11	Fountain, and maybe some others; is that correct?	10	didn't like it.
12	A. October 6th there was a conference call. I	11	Their two offers I think their one price was 60
13	don't remember exactly everybody in attendance on the	13	bucks and the other one was like 48, which was well above
14	call.	14	our avoided costs, and well above anything going on in
15	Q. And after that, it looks like there was some	15	the marketplace. Our opinion, totally unjustified.
16	I'm not going to ask what the substance was. But there	16	Q. And then at the meeting, the parties discussed
17	was some lawyer-to-lawyer discussion, maybe between	17	their meetings on consideration in value. And I take it
18	Mr. Hopson and Kendal Bowman; is that correct?	18	Duke wasn't persuaded in what Cube was saying?
19	A. I knew there was a my understanding there was	19	A. No. We were not.
20	a call on October 12 to discuss legal issues. I don't	20	Q. All right. So they made the counter offer. And
21	know if I can't recollect if I was there or who was	21	it looks like there was a meeting between Duke and Cube
22	there; but I do know there was a follow-up to talk about	22	on January 30, 2018. Were you at that meeting?
22	specific legal issues.	23	A. I believe I was at that meeting. You want me to
23	Specific regar induct:		
23	Q. Okay.	24	answer any questions on that, I would have to review my
		24 25	

Page 92 Page 90 1 that. That might have been the meeting where the I 1 guys that will run theoretical models and things like 2 Squared Capital guys were there. I can't remember. But 2 that. And they'll come up with what they think the 3 there's a meeting somewhere, it might help to refresh my 3 market should be like in the southeast. That is a 4 memory; but I'm trying to figure out which meeting that 4 challenge to do. The southeast is really its own market. And 5 was. 5 6 Q. Well, look, if you would -- and I don't want to 6 it's a challenging market to predict with, like the Black 7 Shoals, and all these different models and things that 7 spend too long. I'll take as long as you want, but I 8 don't want to spend too long. So we've got other things 8 people use. We've seen it many times. 9 we're going to cover. 9 What we base our knowledge on is we have 10 At Tab 96, and it's Duke document 1138, are 10 extremely capable analytical folks in our company that 11 those your notes? 11 know our avoided costs. They know the methodology that 12 A. No. On February 23 -- is this dated? This is 12 are supposed to be used by different commissions. And 13 January 30th. 13 they're very, very, very, good at it. And these guys are 14 I don't know whose notes those are. Really nice 14 coming in just, you know, just can't do that. They just 15 handwriting, though. Really nice handwriting. If it was 15 can't do that. 16 my notes, you wouldn't be able to read them. I don't As far as if they're going to predict the 16 17 know whose those are. 17 market, I don't have to; because I know everybody in the 18 The only time I saw them was when they showed up 18 southeast, and I get bids in all the time. 19 Friday in this binder, but I could look at them, if you 19 So I know -- I have access to traders. I have 20 like. Who was there? Oh, yeah. Let's see. 20 access to the long-term markets. I know what the market 21 They do reference in these handwritten notes 21 is. I don't need someone coming in running a model 22 that, at some point, they wanted us to meet with their --22 telling me what it is. 23 Cube wanted us to meet with their analytical folks, the 23 They're very rarely right. All they really had 24 academic guys that do the modeling and all of that. 24 to do is contact ten or 12 people in the southeast, and 25 And we met with them in Charlotte on February 25 they would know what the market is. They wouldn't have Page 91 Page 93 1 23rd. I knew that was going to be a total waste of time, 1 to do these predicted models and charge them for it. It 2 but we did it anyway. 2 was a waste of time. Q. So let's look at -- go to -- go to Tab 10 real 3 3 But we were bending over backwards for them to 4 try to do it. I knew it. They didn't believe me, but we 4 quick, if you would. 5 A. Sure. Okay. I am at Tab 10. That's quite a 5 know what the market is. We're involved in the market 6 string of e-mails there. 6 every day. We know what stuff costs and what it sells 7 Q. Yeah. There's a lot there. 7 for. It's my job. That's what they pay me to do and 8 A. Let me know what you want me to do. 8 that's what they pay our traders to do. These guys, they 9 didn't know, but it's not unusual. Q. Well, what I wanted to look at was -- flip to g 10 the document that -- 34, the document number 34. Q. And is it unusual -- did you perceive at the 10 11 A. Okay. 11 time that Cube felt the meetings were going well? 12 Q. And there's an e-mail from John Collins to David 12 Α. I wouldn't have thought that. No. I thought it 13 Fountain. And I know you're not copied on it, so take a 13 was very clear to us and to them that we were really far 14 minute and read that e-mail. 14 apart. A. I'm going to read the January 31st e-mail. I mean, if you look at the last two offers that 15 15 16 Looks like -- yeah. Okay. I mean, I recollect 16 we traded with them, they were around a ten year term at 17 that. 17 48 bucks escalating, I might add, at three percent. And 18 Q. The reason I pointed to this e-mail, you said 18 we were fixed at around on an average price around -- I 19 the further meeting with the consultants might be a waste 19 think our on peak was 32, and off peak 39, an average of 20 of time. And it seems like there may be a disconnect. 20 34. If they could have gotten the RECs, that would have 21 As I read the e-mail, perhaps Cube felt like 21 been another \$4. Maybe put them in the 40s, but we were 22 there was some progress made and maybe you didn't feel 22 very far apart, both on price and term. 23 And, as you know, you got questions about the 23 that way. 24 A. We see that a lot with the -- a lot of the ITTs 24 structure and what was involved. You know, how's it 25 in private equity, they'll hire consultants like these 25 going to dispatch? Who's going to get the environmental

	Page 94		Page 96
1		1	Q. It says, This looks like this is going to end up
2	Beyond the pricing, there was a lot of	2	with a complaint to the NCUC Commission; is that right?
3	differences too at that time. I just don't know how much	3	A. Uh-huh.
4	the commercial guys transacted at, at these levels. In	4	Q. And then, Mr. Johnson says, David Johnson
5	other words, I don't know how many deals their commercial	5	A. Yes. I believe David is not my boss now. I
6	people had actually done in the southeast.	6	think maybe sometime around that timeframe, he had
7	Q. Okay. Okay.	7	replaced Jerry Freeman; but, yeah, he was my boss at that
8	So what's the next step after the technical	8	time.
9	meeting?	9	Q. And he says, That is probably a good outcome in
10	A. We received a I call it the ultimatum letter.	10	this case. Thanks for the update.
11	We received a letter. John Collins sent a letter to	11	What does that mean, "a good outcome?"
12	David Fountain on March 9th. I believe that was the next	12	A. Well, you'd have to ask David what that means,
13	step.	13	but I do think that we as I mentioned earlier, that
14	Q. Look at Tab 44, and tell me if that's the letter	14	when you don't have a need for capacity, you know, we
15	you're referring to.	15	just want to be in a situation where we weren't
16	A. I'm going to need a moment to read it. Okay?	16	overpaying for something.
17	Q. Yes. Yes. Yes.	17	I think there was some concern at the commercial
18	A. Yeah. I'm getting there. Hang in there.	18	level that the pressure the I Squared Capital and Cube
19	Q. I think it's on 190.	19	put on the executive that maybe it would end up forcing
20	A. Yeah. That's what I'm reading. Okay. I read	20	the commercial guys to do a transaction where either we
21	most of it.	21	overpaid, or customers got harmed.
22	Q. Is that the ultimatum communication that you're	22	So I think what David was referring to, David
23	referring to?	23	Johnson, was that we offered our avoided costs. I mean,
24	A. Yeah. That was it. What's the date of this?	24	there was no mechanism really for us to offer more than
25	This is March 9th? Yeah.	25	that at that time, because we didn't have the capacity.
	20 apeq		
1	$\begin{array}{c} Page \ 95\\ \mbox{Q}. & \mbox{And when you say an ultimatum, what was the} \end{array}$	1	${ m Page}97$ So I think, at this stage of the game, a
1		1 2	So I think, at this stage of the game, a
	Q. And when you say an ultimatum, what was the		So I think, at this stage of the game, a
2	Q. And when you say an ultimatum, what was the ultimatum, as you understood it?	2	So I think, at this stage of the game, a complaint to the commission, may seem like a big deal to
2	Q. And when you say an ultimatum, what was the ultimatum, as you understood it?A. Let's see. We wanted a clear signal by Tuesday,	2	So I think, at this stage of the game, a complaint to the commission, may seem like a big deal to the attorneys, but from our perspective, we felt like we were following the commission's rules. So to us, if you
2 3 4	Q. And when you say an ultimatum, what was the ultimatum, as you understood it?A. Let's see. We wanted a clear signal by Tuesday, March 13, or they were going to terminate the letter	2 3 4	So I think, at this stage of the game, a complaint to the commission, may seem like a big deal to the attorneys, but from our perspective, we felt like we were following the commission's rules. So to us, if you
2 3 4 5	Q. And when you say an ultimatum, what was the ultimatum, as you understood it?A. Let's see. We wanted a clear signal by Tuesday, March 13, or they were going to terminate the letter agreement and proceed the piece of it that sounds like	2 3 4 5	So I think, at this stage of the game, a complaint to the commission, may seem like a big deal to the attorneys, but from our perspective, we felt like we were following the commission's rules. So to us, if you tell the commercial guys we're going to the commission,
2 3 4 5 6	 Q. And when you say an ultimatum, what was the ultimatum, as you understood it? A. Let's see. We wanted a clear signal by Tuesday, March 13, or they were going to terminate the letter agreement and proceed the piece of it that sounds like an ultimatum to me is the part in looks like it's the 	2 3 4 5 6	So I think, at this stage of the game, a complaint to the commission, may seem like a big deal to the attorneys, but from our perspective, we felt like we were following the commission's rules. So to us, if you tell the commercial guys we're going to the commission, it's not like we go, Ooh, wow, that's bad; because all
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	Page 98		Page 100
1	A. I'm fine. I'm doing good.	1	Q. And then I take it that you would give the same
2	Q. Let me just find one thing and we'll move on.	2	answer for September 28, 2016, that Cube could not have
3	So my understanding is that after that, Cube	3	submitted a NOC form?
4	terminated the discussions under the letter agreement;	4	A. Yes.
5	right?	5	Q. And for October 11, 2016?
6	A. Yes. Yeah. They terminated the letter	6	A. Yes.
7	agreement March 20th of 2018.	7	Q. And any time prior to November 15, 2013(sic)?
8	Q. All righty.	8	A. I'm not familiar with that date; but we do not
9	Let's look at Exhibit 199, Tab 199. That's in	9	take Notice of Commitment forms for people who don't own
10	the little binder.	10	the power plant.
11	What we're going to look at, there's some	11	Q. And let's just look at the sections, if we can.
12	numbers at the top, Mr. Keen, there's a page number 140	12	And I'll ask if you'll look with me at section three,
13	near the back of the exhibit.	13	it says that, The seller certifies as follows. And it
14	A. Can you say the page number again, please?	14	has several options, four options about CPCN
15	Q. 140.	15	requirements.
16	A. Yes. I'm there.	16	Do you see that?
17	Q. Okay. And can you tell me what this document	17	A. Yes.
18	is?	18	Q. I'm not asking for legal definitions. If you
19	A. Looks like a Notice of Commitment form.	19	have an understanding of what a CPCN is?
20	Q. This a Duke form?	20	A. I do not.
21	A. I believe so. Yes. Uh-huh.	21	Q. Do you know if there was a CPCN for the
22	Q. And can you tell me, in your own words, what the	22	facilities in 20 or let's say as of November 15, 2016?
23	purpose of this form is?	23	MR. ALLEN: Objection.
24	A. The purpose for a Notice of Commitment form is	24	He said he didn't know what a CPCN was.
25	for a QF to basically notify either DEC or DEP that they	25	THE WITNESS: The answer is no.
	Page 99	-	
1	are committing to selling the output of their qualifying	1	Page 101 I don't know anything about whether these
2	facility to us.	2	facilities had CPCNs or not. I do not know anything
3	Q. And is it could Cube have submitted this form	3	about that process.
4	to you, to Duke, on September 16, 2016?	4	-
5	A. No.	5	Q. Let me just make sure I understand.
6	Q. And why do you say, No?	6	You don't know anything about the CPCN process,
7	A. It would have had to come from the owner.	7	and you don't know anything about whether the facilities
8	Q. And why do you say that?	8	had one? You don't know anything about CPCNs?
9	A. Because I mean a prospective buyer, or someone	9	A. I don't deal with this at all. We have other
10	who's looking to buy an asset, can't commit, in my	10	people deal with CPCN. I don't do it.
11	opinion you lawyers may disagree can't commit to	11	Q. Okay. And so I take it that well, do you
12	selling it. It has to come from the owner.	12	know, if someone does not have a CPCN, how they would
13	There are situations where you could have	13	complete section three of the form?
14	someone commit and sell the output of a plant, but they	14	MR. ALLEN: Objection.
15	don't own it. How can you commit to sell the output of a	15	That's a legal question. If he doesn't know
16	plant, if you don't own it? You don't accept from people	16	about a CN, how would he know about how to complete a
17	who might own a power plant.	17	form related to a CPCN form?
18	Q. Okay.	18	MR. DOWDY: I think that's circular. He's in the
19	A. I mean, I don't know. That's the way we look at	19	process of accepting the forms. And it's Duke's
20	it from a commercial perspective.	20	deposition. And I do think that's relevant to the
21	As far as the regulations, as it relates to the	21	case.
22	laws, and all that, that the attorneys would have to	22	THE WITNESS: Well, the answer to your question
23	answer that. But from a commercial perspective, you	23	is, I don't do these forms. We have I don't know
24	can't commit to sell a facility you don't own. That has	24	what you call it contract analysts that work in our
25	to come from the owner.	25	department. And when we get a notice, they're the
1			

1	Page 102	1	Page 104
1	ones who review them. They'll send it to me when it's		BY MR. DOWDY:
2	properly filled out and all that. Or they'll just let	2	Q. All right, Mr. Keen. Welcome back. Thank you
3	me know that we have a completed CPCN, and here's the		for your patience and indulgence. I think we don't have
4	date.	4	too much time left, and we can all get back to fun things
5	So I don't typically get the Notice of Commitment	5	instead of work.
6	form. It's typically sent to our contracting	6	Okay. I don't want to ask what your discussions
7	department.	7	with counsel were. But were you involved in preparing
8	BY MR. DOWDY:	8	Duke's answer to the complaints in this action?
9	Q. Okay. So I take it you don't know what a	9	A. Which document is that?
10	contract analyst would do, if section three was not	10	Q. That's 198, sir.
11	completed?	11	A. 198. Let me look at it real quick.
12	A. I don't know specifically, but I will tell you	12	Q. Yes, sir.
13	that there are times when we get Notice of Commitment	13	A. Yes.
14	forms that are not filled out correctly or completed, and	14	Q. And let me ask you to turn, at the top it's got
15	we will get back to the person that sent it to us and	15	a number 109. They're numbered at the top instead of the
16	work the process and try to get it completed correctly.	16	bottom. Well, they're numbered at both the top and the
17	So, in other words, there have been cases when	17	bottom, but 109 at the top.
18	we've got a NOC form, and it wasn't completed correctly.	18	A. 109 at the top?
19	So it wasn't technically completed at that point. So we	19	Q. Yes, sir.
20	either had to add something or take something out.	20	A. Page 29 at the bottom?
21	I don't know the details. We have, like I said,	21	Q. Yes, sir.
22	we have people that take care of this stuff.	22	A. I'm there.
23	Q. I'll just ask it this way, and I'll save us some	23	Q. All right. Do you see allegation 52 about a
24	time, I think.	24	CPCN relative to a transaction between Duke Power Company
25	Do you have any knowledge of what the analyst	25	and Northbrook Carolina Hydro?
1	Page 103	1	Page 105 A. I do see 52. Yes.
	would have done, if they received this form from Cube Yadkin in October of 2016?	1 2	A. 1 do see 52. res.Q. Do you know anything about that? Do you have
3		4	
	A I don't know what they would have done I don't	2	
4	A. I don't know what they would have done. I don't know	3	any knowledge regarding that paragraph?
4	know.	4	any knowledge regarding that paragraph? A. I don't know anything about that.
5	know. Q. At any point prior to the filing of the	4	any knowledge regarding that paragraph?A. I don't know anything about that.Q. Let's go to shorten up that section. Hold on
5 6	know. Q. At any point prior to the filing of the complaint in the commission, did anyone at Duke tell Cube	4 5 6	any knowledge regarding that paragraph?A. I don't know anything about that.Q. Let's go to shorten up that section. Hold on just a second.
5 6 7	know. Q. At any point prior to the filing of the complaint in the commission, did anyone at Duke tell Cube that Duke believed that Cube needed to submit a NOC form?	4 5 6 7	any knowledge regarding that paragraph? A. I don't know anything about that. Q. Let's go to shorten up that section. Hold on just a second. When we were going through the topics earlier,
5 6 7 8	know.Q. At any point prior to the filing of the complaint in the commission, did anyone at Duke tell Cube that Duke believed that Cube needed to submit a NOC form?A. I don't know the answer to that.	4 5 6 7 8	any knowledge regarding that paragraph? A. I don't know anything about that. Q. Let's go to shorten up that section. Hold on just a second. When we were going through the topics earlier, you indicated that at a high level you could answer
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	Page 106	1	Page 108
1	which date they used, or when it was happening; but I	1	calculations itself.
2	will tell you that the way we do our analysis is when we	2	So to give you an example, in some situations,
3	get a NOC form, a completed NOC form, the date of that	3	you would just pick up maybe a tariff that's available,
4	NOC form is what we use to base, not only the costs	4	if you did a NOC form, depending on what size, you would
5	including the avoided costs, but also the methodology	5	get that actual tariff.
6	that was valid at that time based on the jurisdiction's	6	Depending on certain situations, you would get a
7	commission.	7	negotiated rate. Where, for example, if you submit a NOC
8	So, if you if you if you send us a NOC	8	form in October, you would get maybe the October avoided
9	form in October, whatever, then you will get the avoided	9	costs. Well, the October avoided costs are available the
10	costs and whatever commission approved methodology was	10	end of November. And then we would calculate it and put
11	used at that time; because in North Carolina, South	11	a PPA into that. So, even though you would send the NOC
12	Carolina authorities, the methodologies and instructions,	12	form in and get the October avoided costs, it would be
13	and the costs, they change frequently.	13	later.
14	That's why the NOC, it sets the date on which	14	And in North Carolina, there's different
15	the analysis will be based, both the numbers and the	15	calculations depending on what size hydro you are. In
16	methodology.	16	other words, if you're a small hydro, as defined in the
17	Q. So, and here's what I'm trying to understand.	17	commission, that would determine your calculation
18	A. Sure.	18	differently than if you were a large hydro.
19	Q. Let's assume a NOC form with a date of October	19	So I would say that the NOC form, basically
20	11th, 2016. Would the rates, would the avoided cost	20	the key thing for us is it lets us know which costs we're
21	rates, be higher or lower than after the rate change in	21	going to use in the analysis, and which methodologies
22	November of 2016?	22	we're going to follow that the commission has required
23	A. I believe the changes in November resulted in	23	for us at that time.
24	lower avoided costs; but, you know, a lot of that depends	24	So you're exactly right. If a law came out, a
25	on the term, when you do the calculation.	25	regulation came out and said November 15th, from that
			D 100
	Page 107		Page 109
1	Page 107 Again, I'm talking from a generic perspective.	1	Page 109 point forward, avoided costs are going to be lower, then
1 2	8	1 2	point forward, avoided costs are going to be lower, then
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2	Again, I'm talking from a generic perspective. In general, I believe it resulted in lower avoided costs.	2	point forward, avoided costs are going to be lower, then you would want one before November 15th; but other things
2 3	Again, I'm talking from a generic perspective. In general, I believe it resulted in lower avoided costs. Q. But from a generic perspective, what are the	2 3	point forward, avoided costs are going to be lower, then you would want one before November 15th; but other things affect avoided costs, too.
2 3 4	Again, I'm talking from a generic perspective. In general, I believe it resulted in lower avoided costs. Q. But from a generic perspective, what are the terms of a PPA that would affect the price?	2 3 4	point forward, avoided costs are going to be lower, then you would want one before November 15th; but other things affect avoided costs, too. I get this all the time from hydros. When
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1	Page 110		Page 112
1	gave you. So, if you go to look at the September 2017,	1	whether or not you should have gotten a waiver as to
2	those were our avoided costs at the time. That	2	whether or not you get the capacity cost down?
3	essentially was a PURPA agreement in September 2017.	3	MR. DOWDY: I'm happy to have that conversation
4	So, if you look at those numbers, you'll know	4	outside the presence of the witness, if you want.
5	what they were at that time. I don't for us we	5	And I'm almost finished anyway, so I don't really
6	would have to go back and do an analysis for what date	6	see what the difference was anyway.
7	you wanted, but they would be lower in '16 than they were	7	MR. ALLEN: It will need not lead to anything
8	in '17. I'm sorry. They would be lower in '17 than they	8	relevant; but since you're close to finishing, we'll
9	were in '16, generally. I would expect there were some	9	move on.
10	circumstances when that's not true.	10	THE WITNESS: You said Duke Energy. You have to
11	Q. But they would be lower in September of 2017	11	be more specific than that.
12	than they were in September or October of 2016?	12	BY MR. DOWDY:
13	A. I think so. Yes. Without doing the exact	13	Q. Okay. I'm talking about the two respondents in
14	analysis for the technology, and the terms, and all that	14	this action.
15	stuff, I think generally you can say that avoided costs	15	A. Okay. Well, it depends on when you're asking
16	have been trending lower; so, yes.	16	the question. But Duke Energy Carolinas' next capacity
17	Q. And how does the length of a contract impact all	17	is 2026. I don't know you know, the IRP was released
18	that? Is it for a longer PPA, would you get lower	18	in October I think. So based on that, it's 2026. When
19	costs, higher costs?	19	it was previously released, I can't remember when it was,
20	A. That's a good question. The the some	20	but it was a few years out.
21	folks, owners, think that costs are low, so they'll try	21	And DEP, they had a nearer term capacity, which
22	for a short term and hope that gas prices go up, so	22	we filled when I mentioned the IRP, we bought around
23	they'll lock in.	23	2,000 megawatts of PPAs. Unfortunately, Cube wasn't one
24	Some folks feel like they have to they'll	24	of those, because their prices were uncompetitive. But
25	just since prices are so low and gas prices are so	25	we did recently buy a couple thousand megawatts for DEP.
1	Page 111	1	Page 113
	low, they'll lock up a shorter term, so they may want a		So their capacity need has now been pushed out
3	two year deal, hoping the costs go up. Or, you know,	2	further, too, because of that. But I don't remember exactly where it is. I think it's maybe in the 2024
4	they may want to do a five year deal. Depending on the jurisdiction and the rules and the technology, the terms	4	timeframe.
5	are dictated by the regulator on what we can and can't	5	But the only thing I was really telling you is
6	offer and what we have to offer.	6	when in some cases, when the capacity need is that the
7	But to give you an example, one thing that has a	7	utility will have an impact on that avoided cost
1	big impact on this is the a big impact on avoided		actificy with have an impace on that avoided cobe
		8	calculation, the more capacity need you have the more
1	costs is whether the utility you're dealing with has a	8	calculation, the more capacity need you have, the more value the capacity will be added to the avoided costs.
9	costs is whether the utility you're dealing with has a capacity need, and whether or not that capacity need will	9	value the capacity will be added to the avoided costs.
9 10	capacity need, and whether or not that capacity need will	9 10	value the capacity will be added to the avoided costs. BY MR. DOWDY:
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Page 114 Page 116 1 A. I'm not aware of that ever happening. 1 without a NOC form. 2 MR. DOWDY: All right. I'm going to take about 2 Ο. Does that mean it hasn't, or that you don't 3 know? 3 five minutes and look at my notes. And then I think A. I don't know. I've only got one or two more questions and I'll be 4 4 Q. Do you know if Duke has ever entered into a 5 finished, at least I will be. I don't know if anybody 5 6 PURPA PPA with a provider that did not have a CPCN? 6 else has anything, but --A. I don't know the answer to that. THE VIDEOGRAPHER: The time on the monitor is 7 7 8 Q. Do you know if Duke has entered into a PPA with 8 2:08 p.m., and we're going off the record. 9 a PURPA buyer that didn't submit a NOC form? 9 (Whereupon a discussion was held off the record.) THE VIDEOGRAPHER: The time on the monitor is 10 A. I don't know the answer to that. 10 2:15 and we're back on the record. 11 Q. And Duke has signed hydroelectric PPAs with four 11 12 entities from January 2015 to July 2017, hydroelectric; 12 BY MR. DOWDY: 13 is that correct? 13 Mr. Keen, thank you for your time today. I just 0. 14 A. I don't know the answer to that. 14 have a few final questions that I ask everybody. Q. Were you involved in the Spencer Mountain Thinking back on the deposition, to the best of 15 15 16 facility? 16 your recollection, is there anything that you answered 17 A. Yes. 17 incorrectly that you'd like to change your answer? 18 Q. Do you know if that facility completed a NOC 18 Α. No. 19 form? 19 0. And so, as far as you know, were all the answers 20 A. I don't remember. 20 you gave truthful to the best of your ability? Α. 21 Q. What about Northbrook, do you know if that 21 Yes. 22 facility completed a NOC form? 22 Q. I don't have any more questions. A. All hydros that I manage, all 50 of them, are 23 23 Α. Great. Thank you. 24 required to submit a NOC form, if they're going to want 24 I doubt it, but your counsel may. 0. 25 their contract to be extended. 25 MS. FENTRESS: I don't believe we have any Page 115 Page 117 Q. But do you specifically recall whether one was questions. 1 2 submitted for Northbrook? 2 Thank you. 3 A. I don't remember that. Well, one thing, let me 3 THE VIDEOGRAPHER: The time on the monitor is 4 correct you. Northbrook owns about ten hydros with us. 4 2:16, and we're going off the record. 5 So when you say, Northbrook, that doesn't narrow it down 5 COURT REPORTER: Who will be ordering? 6 for me. 6 MR. DOWDY: I will. 7 Northbrook has submitted NOCs -- well, I'm not 7 COURT REPORTER: You will, Kendrick? 8 going to get into that; but hydros owned by Northbrook 8 MS. FENTRESS: Yes. 9 had submitted NOC forms for a long time, and recently had 9 COURT REPORTER: And there's no rush on it; 10 submitted NOC forms, too. Northbrook understands how it 10 right? 11 works. So they do submit NOC forms. 11 MR. DOWDY: No. Not for me anyway. I can't 12 But, specifically, did they submit one and on 12 speak for Kendrick. 13 what date and all that? Like I said, the NOC forms go to MS. FENTRESS: We'll take it when you're done. 13 14 the contract analyst. And I confirm with them whether or (Whereupon the proceedings adjourned at 2:16 14 15 not the NOC form has been received and completed. I 15 p.m.) 16 don't tend to look at them. 16 17 Q. I understand. All right. 17 18 Well, I'll just ask the same two things quickly 18 19 about Madison. Do you know whether that facility, 19 20 whether a NOC form was completed for that facility? 20 A. I don't know. I don't recall. 21 21 22 Q. And what about Barbara Ann Evans? 22 23 A. I don't know. I suspect we have those. 23 24 And, if you wanted to, we'll send them to you; 24 25 but we don't allow hydros to do contracts or do PPAs 25

Page 118 Page 120 1 CERTIFICATE OF OATH 1 CHANGES AND SIGNATURE 2 2 WITNESS NAME: Michael Keen, 12/08/2020 3 STATE OF FLORIDA) CHANGE 3 PAGE LINE REASON 4 COUNTY OF LEE) 4 5 5 6 I, Shannon McCann, Shorthand Reporter and 6 7 Notary Public, State of Florida, certify that Michael Keen 7 8 remotely appeared before me on the 8th day of December, 8 9 2020 and was duly sworn. 9 10 WITNESS my hand and official seal this 17th 10 11 day of December, 2020. 11 12 Viamon McCann 12 13 13 14 14 15 Shannon McCann, Notary Public, State of Florida 15 My Commission: GG 322810 16 16 Expires: July 14, 2023 17 17 18 18 19 19 20 I, Michael Keen, have read the foregoing 20 21 transcript and hereby affix my signature that same is 21 22 true and correct, except as noted above. 2.2 23 23 24 24 25 Michael Keen 25 Page 119 1 REPORTER'S DEPOSITION CERTIFICATE 2 3 STATE OF FLORIDA) 4 COUNTY OF LEE) 5 I, Shannon McCann, CSR (NJ), certify that I was 6 7 authorized to and did stenographically report the 8 deposition of Michael Keen; that a review of the 9 transcript was requested and that the transcript is a true 10 and complete record of my stenographic notes. I further certify that I am not a relative, employee, 11 12 attorney, or Counsel of any of the parties, nor am I a 13 relative or employee of any of the parties' attorney or 14 Counsel connected with the action, nor am I financially 15 interested in the action. 16 17 DATED this 17th day of December, 2020. 18 19 20 Viamon Mc Cam 21 22 23 Shannon McCann, CSR (NJ) 24 25

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Cube Yadkin Generation, LLC. vs Duke Energy Progress, LLC., et al. Michael Keen on 12/08/2020

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Duke Panel Cross-Examination Exhibit 10

ACHIEVING A NET



CARBON FUTURE

Duke Energy 2020 Climate Report



BUILDING A SMARTER ENERGY FUTURE ®



Contents

Executive Summary1
Introduction6
Governance6
Board Committee Oversight
Compensation 8
Political Contributions and Lobbying
Strategy9
Informing Our View9
Accelerating Our Carbon Reduction Goals9
Charting the Path10
Taking a Comprehensive Approach11
Risk Management11
Our Approach11
Physical Risks12

Policy Risks15		
Economic Risks17		
Opportunities17		
Metrics and Targets20		
Scope 1 Emissions20		
Scope 2 and 3 Emissions21		
Net-Zero Scenario Analysis22		
Key Assumptions and Considerations		
Net-Zero Scenario Analysis Results		
Key Insights27		
Looking Ahead		
Cautionary Statement Regarding Forward-Looking Information		

Duke Energy published this Climate Report during the COVID-19 (coronavirus) pandemic. Learn about the company's response to this crisis at <u>dukeenergyupdates.com</u>.

Executive Summary

As one of the largest electric and gas utilities in the U.S., Duke Energy embraces its responsibility not only to power the communities where our customers live and work, but also to address risks from climate change. Addressing the challenges climate change presents is a mission on which we all agree. We must double down on the hard work that will inform the technology, pace and cost of the transition, while always keeping affordability and reliability for our customers as our guiding beacons. Duke Energy will continue to help lead the effort to develop solutions to this complex challenge.

This report discusses how we are leaning in to this challenge and addressing climate risks by, first and foremost, reducing our own emissions and, secondly, by adapting our system to be more flexible and resilient.¹

Our plans are guided by new carbon reduction goals that were announced in September of 2019. Duke Energy aims to reduce carbon dioxide (CO_2) emissions from electricity generation at least 50 percent below 2005 levels by 2030 and to achieve net-zero CO_2 emissions by 2050.²

We have already made significant progress toward our updated goals, reducing CO₂ emissions 39

percent since 2005, ahead of the industry average of 33 percent.³ To build our path to net zero, we will work collaboratively with stakeholders and regulators in each of the states we serve to develop specific plans that best suit their unique attributes and economies. This will be an exciting transformation that evolves and adapts over time. This report offers insights into the complexities and opportunities ahead and provides an enterprise-level scenario analysis with an illustrative path to net zero, based on what we know today.⁴

This scenario analysis was conducted using our industry-standard resource planning tools and assuming normal weather (averages over the past 30 years). The major findings of this <u>scenario</u> <u>analysis</u> are:

- We are on track to achieve our 2030 goal of reducing CO₂ emissions from electricity generation by at least 50 percent from 2005 levels.
- The path to net zero by 2050 will require additional coal retirements, significant growth in renewables and energy storage, continued utilization of natural gas, ongoing operation of our nuclear fleet, and advancements in loadmanagement programs and rate design (demand side management and energy efficiency). Importantly, this path also depends on the availability of advanced very low- and zero-carbon

¹ This report, like our 2017 Climate Report to Shareholders, is aligned with the disclosures recommended by the Task Force on Climate-related Financial Disclosures (TCFD).

² These goals are enterprisewide. Each jurisdiction will have a different trajectory toward achieving them.

³ U.S. Energy Information Administration, *Monthly Energy Review*, March 26, 2020.

⁴ This scenario analysis does not model specific climate policies but has helped us identify key attributes of policies that will help us achieve our goals. These are discussed in the policy risks section on page <u>15</u>.



technologies that can be dispatched to meet energy demand. These "zero-emitting load-following resources" (ZELFRs) will need to be installed as early as 2035. This analysis projects that ZELFRs will make up 12 percent of the capacity mix and supply 30 percent of energy by 2050 due to their ability to operate at full output over extended periods regardless of weather conditions. See sidebar on ZELFRs.

- Our analysis also shows that while we project adding large amounts of renewable energy, natural gas units remain a necessary and economic resource to enable coal retirements and to maintain system reliability as we transition.⁵ Natural gas – reinforced by adequate transport capacity - allows us to retire our remaining 16 gigawatts (GW) of coal and transition to net-zero CO_2 emissions by 2050 while maintaining affordability and reliability. Notably, as increasingly larger amounts of renewable energy and other zero-emitting resources are added, Duke Energy's natural gas fleet will shift from providing bulk energy supply to more of a peaking and demand-balancing role.
 - We project continuing to need natural gas because, in jurisdictions such as ours where hourly demand for electricity is not well-correlated with hourly renewable generation, renewables are not

operationally equivalent to natural gas generation, particularly for prolonged periods of cloudy weather and/or low wind speed conditions.

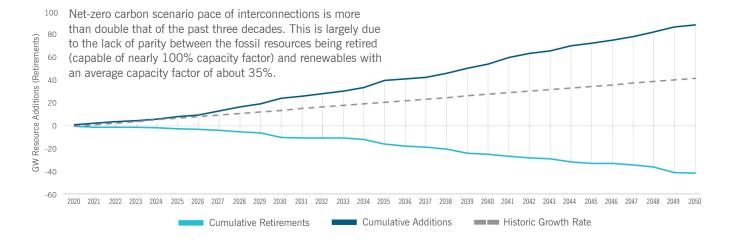
- We conducted a "no new gas" sensitivity to stress-test this projection. We find that while energy storage can help address the capacity and energy gap created by retirement of coal units, installation and operational challenges arise as we attempt to rely on current commercially available storage technologies to provide intermediate and baseload capabilities.
 - For example, to enable coal retirements and accommodate load growth without adding natural gas, Duke Energy would need to install over 15,000 MW of additional four-, six- and eight-hour energy storage by 2030. That equates to a little over 17 times all the battery storage capacity installed nationwide today (899 MW).6 The largest battery storage facility that exists in the world today is the Tesla-built 100-MW Hornsdale Power Reserve in Australia.⁷ A larger 400-MW battery storage facility is currently under development in the Southeast.⁸ These are important and encouraging developments, but it is notable that Duke Energy would need to build nearly 40 storage facilities like the one under development in the next nine years to reach

⁵ Note that our analysis does include economic hurdles for natural gas to address the risk of stranded assets (see page 23 for discussion). ⁶ EIA, U.S. Utility-scale battery storage power capacity to grow substantially by 2023, July 2019. <u>https://www.eia.gov/todayinenergy/detail.php?id=40072</u> (showing

⁸⁹⁹ MW of battery storage as of 2019 and projecting 2,500 MW installed by 2023). 8 http://newsroom.fpl.com/2019-03-28-FPL-announces-plan-to-build-the-worlds-largest-solar-powered-battery-and-drive-accelerated-retirement-of-fossil-fuel-generation

15,000 MW of storage. Due to this tight time frame, challenges would likely include regulatory approvals and permitting, interconnection studies and associated upgrades, and potential supply chain issues, considering the current early stage of the utility-scale battery storage industry.

- Taking this scale of battery implementation to real-world, reliable and affordable operations would require further detailed analysis and onthe-ground experience – among other factors – to determine operational feasibility. We are not aware of any electric utility in the U.S. that has attempted to serve customers reliably at scale with such a high proportion of capacity from energy storage. We discuss the detailed analysis needed before such implementation on page <u>29</u>.
- If such an amount of storage is possible from an operational standpoint, we found that the incremental costs of achieving net zero under this sensitivity would increase by three to four times above that of the net-zero scenario that utilizes natural gas (even without including the likely significant additional costs for transmission and distribution system upgrades). These costs could especially have an impact on Duke Energy's low- and fixed-income customers and energyintensive businesses.
- Achieving net zero, even with gas, will require an unprecedented and sustained pace of capacity additions. For example, we will need to add new generation to our system over the next three decades at a pace more than double the rate at which we added generation over the past three decades. This is illustrated in the chart below.



In the net-zero carbon scenario, renewables (solar and wind) contribute over 40,000 MW of those additions, representing 40 percent of the summer nameplate capacity of Duke Energy's system by 2050 and generating the largest portion of energy. To put this into perspective, Duke Energy's total summer generating capacity today is approximately 58,000 MW and grows to over 105,000 MW by 2050. The requirement for such large needed additions arises because replacing traditional electric generating capacity with renewables plus storage is not a one-for-one proposition. Due to the intermittency of renewables, significantly more capacity must be built, even with storage available, to provide the same level of reliable electricity generation as a fossil plant. Therefore, achieving net zero will also depend on our ability to site, construct and interconnect new generation, transmission and distribution resources at an unprecedented scale in a timely manner.⁹

⁹ See University of North Carolina, "Measuring Renewable Energy as Baseload Power," March 2018. https://www.kenaninstitute.unc.edu/wp-content/uploads/2018/05/Kenan-Institute-Report-Measuring-Renewable-Energy-as-Baseload-Power-v2.pdf

- Our modeling demonstrates that if these resources are integrated into the grid as forecast, we will be able to serve customers under normal weather, which is the way we have planned the system in the past, when the vast majority of resources were dispatchable over long durations (weeks rather than hours). More work is needed to better understand the ability of renewables and storage to meet capacity needs, and how that will change as more of these resources are added to displace conventional generation. We are already embarking on these analyses and expect that collective industry understanding will improve over time.
- While we did not explicitly account for transmission and distribution needs in this analysis, it should be recognized that retirements of certain coal (and, later on, gas) units, as well as the addition of large volumes of renewables and energy storage, will require substantial investments in our transmission and distribution systems. Federal and/ or state policy changes may be needed in order to achieve such large transmission and distribution investments in a timely manner.

The actual pathway that Duke Energy takes to achieve net-zero carbon emissions by 2050 will be based on the availability and cost of evolving technologies, federal and/or state climate policies, and stakeholder and regulatory input and approvals. During the 2020s, significant innovation and technological advancement will be critical to ensure we have viable technology options by the 2030s.

To help enable these new technologies, we are committed to working with the private and public sectors to drive research, development and demonstration of technologies such as advanced nuclear; carbon capture, utilization and storage (CCUS); hydrogen and biofuel utilization for power generation; and longer-duration (up to seasonal) storage.

We are embracing this extraordinary challenge, collaborating with regulators, policymakers and other stakeholders to help develop the best policies and options that will reduce carbon emissions and meet the needs of our customers for affordability, reliability and sustainability.

Mar 48 2021

Zero-Emitting Load-Following Resources

Our analysis makes it clear that advanced very low- or zero-emitting technologies that can be dispatched to meet energy demand are needed for Duke Energy to transition to its net-zero carbon future. There are several technologies that could play the role of zero-emitting load-following resources (ZELFRs), such as:

- Advanced nuclear Advanced nuclear includes a wide range of small modular light-water reactors (SMRs) and advanced non-light-water reactor designs. Small modular light-water reactors are closest to commercial deployment, with early designs targeting commercial operations in the mid-to-late 2020s. Advanced non-light-water reactor concepts are also under development and are expected to be commercially available in the 2030s.
- Carbon capture, utilization and storage (CCUS) CCUS technologies for the power sector are in the early stages of deployment, with a few small-scale projects on coal having achieved commercial operation and several natural gas projects currently in development, spurred by the 45Q tax credit, which provides an incentive for utilizing or storing captured CO₂. Demonstration of CCUS at scale for natural gas power plants is an important milestone for commercial deployment in the power sector, as is building public, environmental and regulatory confidence around the transportation of captured CO₂ and its utilization and geologic storage.
- Hydrogen and other gases (including renewable natural gas) Hydrogen and other low- or zero-carbon fuels are increasingly gaining attention for their potential to contribute to a net-zero carbon grid. For example, many existing natural gas turbines are already capable of co-firing hydrogen, and vendors are focused on developing models capable of firing 100 percent hydrogen. Key opportunities include cost-effectively producing hydrogen (or other gases, including renewable natural gas) from very low- or zero-carbon processes and ensuring safe and effective methods of transportation.
- Long-duration energy storage Long-duration energy storage includes a wide range of thermal, mechanical and chemical technologies capable of storing energy for days, weeks or even seasons, such as molten salt, compressed/liquefied air, sub-surface pumped hydro, power to gas (e.g., hydrogen, discussed above) and advanced battery chemistries. These technologies are at various stages of research, development, demonstration and early deployment

Other technologies will also be important. We continue to explore pumped storage hydro opportunities (a mature technology), as well as advanced renewables (such as offshore wind and advanced geothermal and solar), energy efficiency and demand response.

Duke Energy is actively involved in efforts to advance research, development, demonstration and deployment of advanced technologies. For example, we are a founding member and anchor sponsor of the Electric Power Research Institute/Gas Technology Institute's Low Carbon Resource Initiative, which is a five-year effort to accelerate the development and demonstration of technologies to achieve deep decarbonization. And we have participated in extensive research over the past few years on CCUS, including, for example, a study of membrane-based carbon capture that was conducted at our East Bend facility in Kentucky. We are also involved in both the Midwest Regional Carbon Capture Deployment Initiative and the Midwest Regional Carbon Sequestration Partnership.

We are also a founding member of EEI's Clean Energy Technology Innovation Initiative, which is partnering with several non-governmental organizations (NGOs), including Clean Air Task Force, the Center for Climate and Energy Solutions, and the Bipartisan Policy Center, to identify areas for advocacy on advanced technologies.

Robust and sustained government support is vital to ensure the commercialization of these advanced technologies; Duke Energy will continue to advocate for sound public policies that advance this needed support.



Introduction

In the following sections, this report highlights Duke Energy's commitment to address climate change:

- Governance discusses Board of Directors oversight, executive compensation and lobbying/ political expenditures policies.
- Strategy discusses how various inputs inform and drive Duke Energy's plans to a net-zero carbon future.
- Risk Management addresses Duke Energy's process for identifying physical and transition (policy and economic) risks, and measures for addressing these risks.
- Metrics identifies the company's specific CO₂ reduction goals, progress toward those goals, as well as other greenhouse gas (GHG) metrics.
- Scenario Analysis discusses our analysis of a netzero carbon emissions scenario to provide insight into areas of near-term and longer-term focus needed to achieve our net-zero 2050 goal.

Governance

Board Committee Oversight

The Duke Energy Board of Directors understands the importance of climate change issues, as well as their significance to our employees, customers and communities, and recognizes the potential impact and opportunities for our business and industry. In 2019, the Board was instrumental in the development of Duke Energy's updated carbon reduction goals, including review and discussion at multiple meetings of the Corporate Governance Committee, along with insights from external experts at a full Board meeting.

Given the wide scope of climate risks, including physical, policy and economic risks, the Board and its committees are all actively involved in oversight, as shown in the table on the next page.

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BOARD OF DIRECTORS RISK MANAGEMENT OVERSIGHT STRUCTURE

Corporate Governance Committee	
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- Oversees risks related to sustainability, including climate risks
- Oversees risks related to public policy and political activities
- Oversees the company's shareholder engagement program, receives updates on shareholder feedback and makes recommendations to the Board regarding shareholder proposals, including those related to climate
- Evaluates the composition of the Board to ensure a proper mix of skills and expertise to oversee Duke Energy's risks and strategy

Operations & Nuclear Oversight Committee

- Oversees risks related to our nuclear fleet, our largest carbon-free resource, as well as risks related to our non-nuclear regulated operations
- Oversees operations and environmental, health and safety matters, including improvements at our generation facilities and coal ash basins to better withstand severe weather events (page <u>12</u>)

Compensation Committee

 Oversees risks related to our workforce and compensation practices, including those related to climate

Finance & Risk Management Committee

- Oversees process to assess and manage enterprise risks, including climate risks (page <u>11</u>)
- Oversees and approves major investments that are supportive of the company's climate strategy, such as renewables, grid modernization, natural gas and storage
- Oversees financial risks, including market, liquidity and credit risks

Regulatory Policy Committee

 Oversees regulatory and policy risks related to climate change, including review of federal and state policies at every regularly scheduled meeting (page <u>15</u>)

Audit Committee

- Oversees the company's disclosures, internal controls and compliance risks, including those related to climate
- Oversees risks related to cybersecurity and technology

The day-to-day direct management of climate and carbon-reduction policies is the responsibility of the company's federal government and corporate affairs team. This team reports to the executive vice president for external affairs and president, Carolinas region, who is a member of the Duke Energy senior management team and reports directly to the chair, president and chief executive officer. The federal government and corporate affairs group has organizational responsibility for developing Duke Energy's position on federal legislative and regulatory proposals addressing climate change and greenhouse gas emissions and for assessing the potential implications of such proposals to the company – as well as for engaging stakeholders to help shape our climate strategy. In addition, Duke Energy's state presidents have responsibility for developing the company's positions on state-level legislative

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and regulatory proposals addressing climate change and greenhouse gas emissions, and for engaging stakeholders at the state level to help shape the company's climate strategy.

Compensation

The Compensation Committee has designed our compensation program to link pay to performance, with the goal of attracting and retaining talented executives, rewarding individual performance, encouraging long-term commitment to our business strategy and aligning the interests of our management team with those of our shareholders. The Compensation Committee has aligned several performance metrics with our sustainability strategy, including:

- Zero-carbon generation We incorporate a nuclear reliability objective and a renewables availability metric in our short-term incentive plan to measure the efficiency of our nuclear and renewable generation assets.
- Environmental events To enhance our commitment to the environment, we incorporate a reportable environmental events metric into our short-term incentive plan.
- Customers To prioritize the customer experience and their growing demands to be served by cleaner energy, we incorporate a customer satisfaction metric in the short-term incentive plan, which is a composite of customer satisfaction survey results for each area of business.
- Safety Safety remains our top priority. We include safety metrics in both our short-term and long-term incentive plans based on the total incident case rate of injuries and illnesses among our workers to emphasize our focus on an event- and injuryfree workplace.
- Governance We continue to incorporate sound governance principles and policies in our compensation program that reinforce our pay for performance philosophy and strengthen the alignment of interests of our executives and shareholders.

Duke Energy continues to review its compensation program performance metrics with the Compensation Committee.

Political Contributions and Lobbying

As a public utility holding company, Duke Energy is highly regulated and significantly impacted by public policy decisions at the local, state and federal levels. It is essential for us to engage in public policy discussions to protect the interests of Duke Energy, our customers, employees, shareholders and communities. Participation in public policy dialogues includes contributing to organizations, including trade associations, that advocate positions that support the interests of Duke Energy, our customers, employees, shareholders and communities.

Duke Energy has developed a robust governance program around our public policy engagement. The day-to-day management of our policies, practices and strategy with respect to public policy advocacy is the responsibility of the jurisdictional presidents at each applicable state level and our senior vice president for federal government and corporate affairs, who, along with other senior leaders across the company, make up a Political Expenditures Committee (PEC). The PEC is responsible for annually developing the company's political expenditures strategy and approving, monitoring and tracking our political expenditures. The company's **Political Expenditures** Policy sets out the principles governing corporate political expenditures and political action committee contributions. Under this policy, the senior vice president for federal government and corporate affairs provides a semi-annual update to the Corporate Governance Committee of the Board. This includes updates on the company's strategy and political expenditures, including payments to trade associations and other tax-exempt organizations that may be using the funds for lobbying and political activities. (See Duke Energy's Corporate Political Expenditure Reports).

In addition to our participation in trade associations for public policy engagement purposes, we participate in industry trade organizations for many non-political reasons as well, including business, technical and industry standard-setting expertise. As member-driven organizations, these trade associations take positions that reflect the consensus views of their members. We may not support each of the initiatives of every organization in which we participate or align in strategy with every position of every organization; however, in our interactions with them, we seek to harmonize the organizations'

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positions on climate change with those of Duke Energy. We believe our continued input into these discussions with organizations with whom we may not always totally agree enables us to educate others on our positions and enables us to better understand their positions.

Strategy

Informing Our View

At Duke Energy, we are committed to leading in the effort to address greenhouse gas emissions and to build a cleaner, smarter energy future. As we talk with customers, investors and other stakeholders, reflected in the figure to the right, it's clear that they share that interest. It's also clear that unnecessarily compromising reliability and affordability, especially for our most vulnerable customers, is not an option.

An increasing number of our customers are calling for electricity from non-carbon-emitting sources. For example, Apple, BMW, Facebook and Google are all members of the "RE100," a coalition of companies committed to sourcing 100 percent of their electricity from renewable sources. In some cases, this is through a commitment to match 100 percent of the companies' electricity use with renewable energy purchases.

But it's much more than the interests of our large corporate customers. Counties and cities in Duke Energy's service territories have developed ambitious sustainability or 100 percent renewable energy goals, most by 2050. Further, North Carolina's governor issued an executive order followed by a Clean Energy Plan that calls for reducing greenhouse gas emissions from the power sector by 70 percent by 2030 and to achieve carbon neutrality by 2050. Additionally, climate change remains a prominent topic of discussion in federal political and policy arenas, as can be seen in proposals to address climate change being developed by Democratic and Republican leadership in Congress. The challenge inherent in these goals is not in their establishment, but rather in the development of the right mix of executable options to get the entire economy to net zero by 2050.

Climate change also continues to be a focus of engagement and discussion with the company's shareholders and employees. Both groups want to be sure we are recognizing and responding appropriately to the risks and opportunities that climate change presents.

To continue to power the lives of our customers, support the vitality of communities and exceed the expectations of our customers and stakeholders, we need to deliver energy that is cleaner and smarter than ever before.



Accelerating Our Carbon Reduction Goals

We recognize the long-term challenge climate change presents and that reducing CO_2 emissions in the power sector is a major part of the effort to address this challenge. Given the input discussed above, our assessment of climate-related risks and opportunities, as well as the declining cost of renewables and sustained low cost for natural gas, in 2019 we updated our carbon reduction goal. We are confident that we can achieve at least a 50 percent reduction in CO_2 emissions from electricity generation by 2030 compared to 2005 levels (a more aggressive target than our most recent 40 percent by 2030 goal).

We've also added a longer-term goal of achieving net-zero carbon emissions from electricity generation by 2050. Our goal to attain a net-zero carbon future represents one of the most significant planned reductions in CO_2 emissions in the U.S. power sector. It is also consistent with the scientifically based range of both 1.5 and 2 degrees Celsius pathways, as



discussed in the sidebar on page <u>30</u>. Implementing this bold vision requires us to begin planning and executing now. The choices and investments we make near term will be foundational to achieving net zero by midcentury. Continuing to modernize our fleet and grid at a measured pace will help protect customers from dramatic price increases. At the same time, we must pursue innovation by advocating for sustained investments in low- and zero-carbon technologies for this vision to become reality.

Charting the Path

Achieving our carbon reduction goals will require at least five elements. We will continue to:

- Collaborate and align with our states and stakeholders as we transform. The steps and timeline for this transition will be unique in each state we serve, and we'll collaborate with customers, communities, policymakers and other stakeholders to determine the best path.
- Accelerate our transition to cleaner energy solutions. We're planning to at least double our portfolio of solar, wind and other non-hydroelectric renewables by 2025. We'll continue to need dispatchable, load-following, low-cost natural gas to speed the transition from coal and maintain affordability and reliability. New natural gas infrastructure will be required to fuel this transition and balance renewables. We'll continue expanding energy storage, energy efficiency, as well as electric vehicle infrastructure to support decarbonization of the transportation sector, now the largest CO₂emitting sector.

- Continue to operate our existing carbon-free technologies, including nuclear and renewables. Our nuclear fleet's nearly 11,000 MW of carbonfree generation in the Carolinas – enough to serve nearly 7 million homes – is central to our ability to meet these goals. In September 2019, we announced that we will seek to renew the operating licenses of the 11 reactors we operate at six nuclear stations for an additional 20 years, which will extend their operating lives to and beyond midcentury.
- Modernize our electric grid. The company is investing in a multiyear effort to create a smarter and more resilient grid that can protect against extreme weather and cyber or physical attacks. These grid improvements also support adding more renewables while avoiding outages and providing customers more control over their energy use.
- Advocate for sound public policy that advances technology and innovation. This includes advanced renewable energy, longer-duration (up to seasonal) storage, new nuclear technologies, low- and zerocarbon fuels and effective ways to capture carbon emissions. The company will also support permitting reforms that will enable the deployment of new technologies and construction of critical infrastructure, both needed to address climate change.

As we partner with customers, policymakers, regulators and stakeholders in our respective states to make our transition, our integrated resource plans, financial plans and other regulatory filings will progressively reflect our proposed path (in accordance with the time frames mandated for each).



For example, Duke Energy has already retired 51 coal units totaling more than 6,500 MW since 2010, and we plan to retire an additional 900 MW by the end of 2024. In rate cases filed in 2019, we proposed to shorten the book lives of another approximately 7,700 MW of coal capacity in North Carolina and Indiana. We are also converting three of our largest coal plants in the Carolinas to run partially or fully on natural gas, providing resiliency and reducing carbon emissions. We recognize the importance of our power plants to the communities that host them and the workforce that operates them. As we retire coal plants, we will continue to strive to transition impacted employees to new opportunities and will work to match communities with appropriate resources.

Taking a Comprehensive Approach

Addressing the complex challenge of climate change requires more than just carbon emissions reductions. Our holistic approach to addressing physical and transition (policy and economic) risks associated with climate change includes three key areas of focus: adaptation, mitigation and innovation.

- Adaptation Duke Energy is taking steps to prepare for the changing global climate, including water conservation and storm preparation.
- Mitigation We are working to slow climate change with a variety of carbon reduction and land conservation efforts.
- Innovation Duke Energy is helping drive the new technologies necessary for a net-zero carbon future.

Risk Management

Our Approach

Climate change risks – including physical and transition (policy and economic) risks – are included in the company's Enterprise Risk Management (ERM) process. The ERM process is used to identify, assess, quantify and respond to a comprehensive set of risks in an integrated and informed fashion. ERM provides a framework to manage risks while achieving strategic and operational objectives and continuing to meet the energy needs of our customers.

Duke Energy performs a comprehensive enterprise risk assessment on an annual basis to identify potential major risks to corporate profitability and value, including risks related to climate change. To inform the annual risk assessment, the ERM group works with subject matter experts to identify and characterize key risks, including climate- and environmental-related risks. In addition, our chief risk officer meets with business unit leadership to discuss risks on a quarterly or semi-annual basis. The ERM group shares the annual enterprise risk assessment with the Board and reports regularly to the Finance and Risk Management Committee.

To assure Duke Energy is incorporating climate, technology and economic risks into our long-term planning, we annually, biennially or triennially (depending on the state) prepare forward-looking integrated resource plans (IRPs), or similar regulatory filings, for each of our regulated electric utility companies. These 10- or 20-year plans help us OFFICIAL COPY

<u> Viar 08 2021</u>

Viar 18 2021

evaluate a range of options, considering forecasts of potential future climate policies, future electricity demand, fuel prices, transmission improvements, new generating capacity, integration of renewables, energy storage, energy efficiency and demandresponse initiatives.

In recognition of the increasing role of distributed energy resources, the company is expanding its planning and is developing new Integrated Systems and Operations Planning (ISOP) tools that will inform and evolve the current IRP process. This effort will significantly enhance the coordination of modeling and analysis across generation, transmissions, distribution and customer program planning functions. ISOP is motivated by the expectation that advancements in technology and declining costs will make non-traditional solutions such as energy storage increasingly competitive relative to traditional resources. ISOP will include enhancements to modeling processes necessary to accommodate renewable growth and value new technologies, such as energy storage, electric vehicles and advanced customer programs. In the areas of distribution planning, ISOP builds on our objective of enabling higher levels of distributed energy resources by developing planning tools that can fully leverage the intelligent grid control capabilities of our grid modernization efforts.

Physical Risks

Extreme weather events – including hurricanes, heavy rainfall, more frequent flooding and droughts – can impact our assets, electric grid and reliability. Due to the location of some of our service territories, we must be especially vigilant about adapting to these risks.

Storms and Heavy Rainfall Events

We are making strategic improvements to make the power grid more resistant to outages from severe weather and flooding, and adding new technologies that make the grid more resilient:

- Upgrading utility poles and power lines to make them more resistant to power outages and able to withstand higher winds and more extreme conditions.
- Using data to identify the most outage-prone lines on our system and placing those lines underground. In Florida, we recently announced

a ten-year plan to underground and make other improvements to power lines that run through heavily-vegetated areas, and have stated a goal of either undergrounding or hardening all feeders and laterals by 2050. We are also upgrading underground routes to allow for more remote restoration opportunities.

 Installing a smart-thinking grid that can automatically detect power outages and quickly reroute power to other lines to restore power faster than ever. In 2019, self-healing technologies prevented more than 600,000 extended outages across the company's six-state electric service area and saved customers more than 1 million hours of total outage time.

We have developed mitigation measures that are being installed to keep substations better protected and in operation during severe storms. These measures include:

- Improved barriers that better withstand flooding to keep these essential systems operating.
- Targeted relocation of equipment while barriers are usually the most effective solution, in some instances we will relocate equipment to nearby property that is outside the area prone to flooding.
- Remote communication, monitoring and restoration capabilities – we are installing new technology to monitor the health of key systems in substations, as well as self-healing capabilities that can help to reduce the number of customers impacted by a substation outage, even if crews are not able to physically reach the substation.

We have made improvements at our power plants to ensure they are capable of withstanding heavy rainfall events and flooding. For plants near the coast, these actions also help protect against potential sea level rise impacts:

- Raised the foundation of the new Citrus Combined Cycle Station in Florida to protect the station from hurricane storm surges.
- Increased structural hardening and improved equipment protection at the Brunswick Nuclear Station in North Carolina to better resist flood impacts.



 Evaluated and prioritized our fossil sites for possible flood risks and performed detailed modeling of the top four sites against 100- and 500-year storms and riverine flooding; additionally, updated our sitespecific natural disaster preparation procedures.

In addition to our extensive mutual assistance partnerships with other utilities and contractors to bring additional resources in quickly to support our crews responding to major outage events, we have also improved our storm preparation and response capabilities:

- Improved storm and damage forecasting capabilities enable us to stay ahead of the storm, identifying likely areas of impact and moving resources into place ahead of the storm to respond faster.
- The use of drones to better assess damage and support crews in the field.
- Improved communication and control capabilities to give crews in the field more information and assistance when they need it.
- Improved customer communication tools to help keep customers informed about outage response and estimated times of restoration.

Water Availability

Many sources of electricity require significant amounts of water for cooling purposes. A prolonged drought could therefore risk reliable electricity generation.

Several of Duke Energy's fossil and nuclear power plants in the Carolinas are located on hydroelectric reservoirs that the company operates. Of course, water availability is an important consideration in those watersheds, both to Duke Energy and to others. In these areas, we collaborate with local water utilities, environmental groups and recreation enthusiasts on watershed and drought planning. Our hydroelectric projects also have drought response plans (known as "low inflow protocols" (LIPs)) embedded in their Federal Energy Regulatory Commission (FERC) operating permits; the LIPs work to conserve water in the reservoirs and protect all water intakes in the watershed, including those for Duke Energy's facilities, until it rains again. Duke Energy's hydroelectric projects also have procedures in place for managing operating conditions during "high inflow" (high rainfall) events.

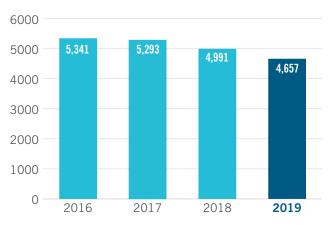
Except for emergency situations, Duke Energy endeavors to maintain lake levels within the ranges set forth in its FERC licenses under normal operating conditions. Lake levels are closely monitored, and operational adjustments are made based on various factors, including weather forecasts.

Other Duke Energy facilities are protected from drought because they have closed-cycle cooling and/ or operate on large sources of water or on cooling reservoirs; one (the Brunswick Nuclear Station) withdraws water from an estuarine environment and so is not susceptible to drought-related risks. We have also implemented equipment and operational changes at nuclear and coal plants to reduce potential drought-related risks.

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In 2018, we adopted a new goal to reduce annual water withdrawals by our generation fleet by 1 trillion gallons from the 2016 level by 2030.

Water Withdrawn for Electric Generation (billion gallons)



Our transition to cleaner energy by replacing coal and natural gas plants that use once-through cooling systems with natural gas combined-cycle plants that use closed-cycle cooling systems, and with renewables, reduces the amount of water withdrawn and thereby reduces the risk to operations from potential future droughts.

Ash Management Program

Duke Energy has instituted a comprehensive ash management program that ensures that waste facilities, which are typically located at generating stations near waterbodies for cooling water, operate properly even in extreme weather. Scientific studies of our ash basins and landfills, dam safety inspections, emergency planning, ongoing environmental monitoring efforts and more – performed by the company and independent experts – address the operational, environmental, strategic and financial risks associated with effectively managing coal ash today and for decades to come.

Permanently closing ash basins is the most effective step we can take to address climate risk. The scope, scale and speed of the company's work to close basins make us an industry leader. Under our comprehensive ash management plan, we have:

 Completed extensive ash basin and cooling pond dam improvements across our fleet, which have enhanced dam safety and provide greater protection from severe weather.

- Stopped all flows into ash basins as part of the coal ash basin closure process (except at the Gallagher plant, which will retire in 2022), and the basins are being dewatered. This and other closure preparations have dropped the level of water in the basins significantly, creating space to accommodate significant rainfall.
- Excavated nearly 28 million tons of ash enterprisewide since basin closure began, with more than 5 million tons moved in 2019 alone. We have completed excavation of the basins at our Dan River, Sutton and Riverbend stations. As announced in January 2020, Duke Energy, state regulators and community groups agreed to a plan to permanently close the company's remaining coal ash basins in North Carolina primarily by excavation.

We are also utilizing operational experience and best practices from across the industry to modify and improve our facilities.

- Prior to severe weather, the company takes several steps to prepare for potential ash basin response, including pre-staging equipment and trained professionals, actively reducing water levels if needed and placing construction materials on-site to respond quickly if repairs are necessary.
- At the retired Sutton Plant in Wilmington, a special synthetic turf rated to withstand hurricane-force winds is being used to cap each landfill cell because it provides additional protection against erosion and strong winds that occur in the region.
- We've expanded or built new emergency spillways at cooling ponds at three facilities near the coast (H.F. Lee, Weatherspoon and Sutton) to safely move water through the system if necessary in order to prevent damage to the facilities. The company has robust emergency action plans for each facility covering ash basins and certain dams, which detail specific protocols to address a variety of situations, including severe weather events. These plans are reviewed annually with emergency managers and first responders, shared with regulators and updated as needed.



Policy Risks

Federal or state policies could be enacted to put a legal constraint on power plant emissions, add a price on carbon or mandate certain energy mixes. Other policies may be needed to enable our net-zero transition, such as those to facilitate the siting and cost recovery of needed transmission and distribution upgrades.

Since the publication of our 2017 Climate Report, the U.S. Environmental Protection Agency repealed the 2015 Clean Power Plan and finalized its replacement, the Affordable Clean Energy (ACE) rule. States will determine how the rule will be implemented, so we will better understand any potential impacts to our system once states finalize their plans over the next two years.

In addition, several bills have been introduced in the 116th Congress that seek to establish a price on CO₂ emissions, and House Energy and Commerce Committee leadership has introduced the Climate Leadership and Environmental Action for our Nation's (CLEAN) Future Act. This draft legislation includes a mandate to transition to 100 percent clean electricity by 2050. Other legislative approaches provide substantial support for the development of technologies needed for the net-zero transition, such as the American Energy Innovation Act. It is unclear when or if any of these proposals will be enacted by Congress.

Federal policymakers could also impose mandates that restrict the availability of fuels or generation technologies - such as natural gas or nuclear

power - that enable Duke Energy to reduce its carbon emissions.

At the state level, the North Carolina governor recently directed the development of a state Clean Energy Plan that proposes to explore a variety of policies and actions that will seek to reduce carbon emissions, modernize the utility regulatory model and advance clean energy economic development opportunities. The North Carolina Clean Energy Plan calls for a 70 percent reduction in greenhouse gas emissions in the power sector by 2030 and aims to achieve carbon neutrality by 2050. Duke Energy is actively participating in the stakeholder process to inform and shape the final policy proposal. The stakeholder process is currently slated to provide recommendations to the governor by year-end 2020. It is likely that proposals generated through the process would require legislative or regulatory action to be adopted.

In Indiana, legislation was enacted in 2019 that established a 21st Century Energy Policy Development Task Force. The task force is comprised of members of the House and Senate as well as gubernatorial appointees representing various energyrelated stakeholders. The statute requires the Indiana Utility Regulatory Commission (IURC) to examine Indiana's future energy resource needs; existing policies regulating electric generation portfolios; how shifts in electric generation could impact reliability, resilience and affordability; and whether state regulators have appropriate authority regarding these matters. This report is due in July 2020. The IURC has a contract with Indiana University for a second study, not required by statute, to examine the impact

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Mar 18 2021



of plant closures on local communities. The task force's recommendations are due to be reported to the General Assembly and the governor by December 2020.

Duke Energy has long advocated for climate change policies that will result in reductions in CO_2 emissions at reasonable costs over time. We support market-based approaches that balance environmental protection with affordability, reliability and economic vitality.

Duke Energy's View on Effective Carbon Policy

It's our view that effective policies to reduce CO_2 emissions should include these principles:

- Cost-effective
- Market-based
- Equitable
- Provisions for all emitting sectors
- Environmentally effective
- Promotes technology development
- Politically sustainable

While it is unclear what specific policies will receive formal consideration in Congress, our analyses have identified some key policy attributes that we believe will allow us to achieve our net-zero goal while allowing us to maintain lower costs for our customers. These attributes will also help to incentivize the adoption of new, low- and zeroemitting technologies. Therefore, we believe climate policy should:

- Incentivize a zero-carbon trajectory at the lowest cost, rather than simply imposing a price or dictating a certain generation mix.
- Recognize that nuclear and natural gas generation remain essential to transitioning to an affordable and reliable net-zero carbon future.
- Recognize that regardless of whether (and which) market-based mechanism is adopted, robust and sustained support for research, development, demonstration and deployment of advanced technologies is critical.

Duke Energy factors policy risk into our strategies by evaluating carbon price scenarios in the development of our integrated resource plans. Since 2010, Duke Energy has included a price on CO_2 emissions in our IRP planning process to account for potential climate legislation or regulation. Incorporating a price on CO_2 in our IRPs allows us to evaluate existing and future resource needs against a potential climate change policy risk in the absence of policy certainty. We use a range of potential CO_2 prices (including no CO_2 price) to reflect a range of possible policy outcomes.

Other policies may be needed to enable our zerocarbon transition. For example, without streamlined permitting of transmission and distribution, the

DUKE ENERGY CLIMATE REPORT

Mar 18 2021



Mar 08 2021

buildout of large volumes of renewables and energy storage will be a greater challenge.

Economic Risks

Our continued efforts to drive carbon out of our regulated electric utilities' operations help mitigate Duke Energy's financial exposure to potential future climate legislation or regulation. However, potential regulations or legislation to address climate change may require Duke Energy's regulated electric utilities to make additional capital investments to comply and could increase operating and maintenance costs. (Our commercial unit, Duke Energy Renewables, is already 100 percent carbon-free.) As with costs incurred for complying with other types of environmental regulations, our regulated electric utilities would plan to seek cost recovery for investments related to carbon reduction through regulatory rate structures.

To mitigate the risk of stranded assets, we will engage with regulators – and with stakeholders – prior to retiring existing assets or making investments in new generating capacity. This robust regulatory approach supports our future ability to recover costs as we position our fleet for the transition to lower carbon emissions.

Another area of economic risk for our strategy is technology risk. As noted earlier, a critical part of our net-zero carbon strategy is the need for new technologies that are not yet commercially available or are unproven at utility scale. If these technologies are not developed or are not available at reasonable prices, or if we invest in early-stage technologies that are then supplanted by technological breakthroughs, Duke Energy's ability to achieve a net-zero target by 2050 at a cost-effective price could be at risk.

To reduce this risk, we are investing in new technology research, including the Electric Power Research Institute/Gas Technology Institute's Low Carbon Resource Initiative, which is a five-year effort to accelerate the development and demonstration of technologies to achieve deep decarbonization.

We also support policies to increase technology research, development, demonstration and

deployment at the federal level. For example, Duke Energy has supported, on its own and through trade associations, including the Edison Electric Institute and the Nuclear Energy Institute, a package of technology-promoting legislation in the 116th Congress.¹⁰ We are also a founding member of EEI's Clean Energy Technology Innovation Initiative, which is partnering with several NGOs, including Clean Air Task Force, the Center for Climate and Energy Solutions, and the Bipartisan Policy Center, to identify areas for advocacy on advanced technologies.

As we deploy increasing amounts of renewables, siting risk becomes a consideration – both for the renewables themselves and for the transmission infrastructure needed to enable the energy generated to travel to load centers. This could force Duke Energy to adopt more expensive or less optimal (from an operational standpoint) options.

Climate policies or activities to mitigate physical risks can add material costs to the price of electricity and customer bills. This could in turn affect projected electricity utilization increases (such as from growth in demand and electrification of other sectors), as well as Duke Energy's most vulnerable customers.

Another area of economic risks is risks related to insurance. Property insurance companies have said publicly that they intend to stop providing insurance to companies that have above a certain amount of coal generation, or have said that they will only provide coverage if a company has a plan to decrease that over a reasonable period of time.¹¹ As noted above, Duke Energy has retired significant amounts of coal capacity and has plans to retire more. The below discussion of our strategy to meet our net-zero CO₂ emissions goal shows that coal will be phased out of our generation fleet.

Opportunities

Duke Energy is focused on the challenges climate change presents. We stand ready to meet those challenges while also recognizing concern about climate change can mean opportunities for our regulated electric utilities to make investments in renewables, energy efficiency, energy storage,

¹⁰See October 3, 2019, letter from Edison Electric Institute, the Nuclear Energy Institute and 26 other trade organizations to leaders McConnell and Schumer supporting a package of seven technology-promoting bills; October 15, 2019, letter to Speaker Pelosi and leaders McCarthy, McConnell and Schumer from Duke Energy and 24 organizations and companies supporting the Nuclear Energy Leadership Act; and March 2, 2020, letter from EEI, NEI, the U.S. Chamber of Commerce and 36 other organizations supporting the S. 2657, the American Energy Innovation Act.

¹¹See, for example, "Liberty Mutual to Limit Coal Underwriting, Investments; Names First Sustainability Officer," Insurance Journal, December 16, 2019.

grid modernization, as well as in electric vehicle infrastructure. Duke Energy's commercial renewables business can benefit from increased interest in renewables throughout the country. And new technologies to reduce emissions represent both a risk and an opportunity.

Renewable Energy

Customer demand for electricity from renewable sources has increased due, in part, to concerns about climate change. Duke Energy has responded with initiatives in both its regulated and commercial renewables businesses and will continue to seek additional opportunities. In addition, regulatory or legislative policies related to climate change can prove to be a driver for opportunities for increased deployment of renewable generation sources.

Our commercial renewables business, Duke Energy Renewables, operates wind and solar generation facilities across the U.S., with a total electric capacity of approximately 4,000 MW. The power produced from commercial renewable generation is primarily sold through long-term contracts to utilities, electric cooperatives, municipalities, and commercial and industrial customers. Our five-year capital plan, rolled out in February 2020, included a \$2 billion investment, net of tax equity financings, and we plan to continue to invest in this business beyond the next five years.

Opportunities for increased renewable energy also benefit our regulated generation business, where we have installed and are operating approximately 460 MW of solar and anticipate at least 660 MW to be added in the next three years. We also purchase substantial amounts of renewable energy in the form of long-term purchased power contracts, backed by the strength of our balance sheet. These purchases totaled nearly 4,000 MW at the end of 2019, and we are projected to add nearly 2,300 MW in the next three years.

Policies have also been approved in several of our states to encourage increased use of renewable energy, including, for example, our Green Source Advantage program for renewable energy in North Carolina (to which the city of Charlotte has signed on) and the Renewable Energy Credit (REC) Solutions programs in several of our regulated jurisdictions (in the latter, we work with large customers to procure RECs to meet their renewables needs).

Energy Efficiency

Some of the most effective carbon reductions we can make involve helping customers avoid energy usage in the first place. Again, regulatory or legislative policies related to climate change can prove to be a driver for opportunities for increased deployment of energy efficiency. These opportunities are available for both our regulated and commercial businesses.

Our Carolinas utilities rank first in the Southeast in energy efficiency.¹² Our overall energy efficiency initiatives have helped customers in our regulated jurisdictions reduce energy consumption and peak demand by nearly 19,000 gigawatt-hours and 6,700 MW, respectively, since 2008. This cumulative reduction in consumption is more than the annual usage of 1.58 million homes, and the peak demand reduction is equivalent to more than 10 power plants each producing 600 MW. Learn more about energy efficiency.

Energy Storage

Battery storage and microgrids are key technologies that can help better integrate solar into the grid while, among other uses, improving customer reliability and grid security, as well as reducing economic impacts to customers through the ISOP framework described above. Duke Energy plans to invest roughly \$600 million over the next five to 10 years to expand battery storage by almost 400 MW. The company also has more than 2,000 MW of pumped storage hydro power, another energy storage method that can provide long-term storage. We plan to install upgrades at our Bad Creek pumped storage hydro facility in South Carolina to increase its capacity by more than 300 MW.

Grid Modernization and Infrastructure Expansion

Climate change presents opportunities for Duke Energy to continue to modernize its grid to benefit customers both for resilience against the physical risks from climate change and for increased utilization of renewables. This opportunity can mean increased investments in both transmission and distribution assets, as well as in energy storage, as discussed above.

¹²Southern Alliance for Clean Energy, "Energy Efficiency in the Southeast: 2019 Annual Report," January 2020, <u>https://cleanenergy.org/blog/energy-efficiency-in-the-southeast-2019-annual-report/</u>



Smart meters are just one example of how Duke Energy is working to modernize the grid for the benefit of our customers. Duke Energy has installed smart electric meters for more than 80 percent of its customers. With these meters, and time-of-use rates, customers can plan their energy use so that they can save energy and money. Time-of-use rates encourage customers to use energy when demand is lower, which can make energy more affordable for customers while helping the company maintain reliability during peak periods. The company is currently piloting several new time-of-use rates in North Carolina and has proposed several variations of pilot programs in Indiana. These pilots are designed to work in conjunction with newly-installed smart meters to provide price signals at times of peak demand to customers. The pilots will allow the company to develop new, cutting-edge rate designs that will work with renewables and electric vehicles.

Electric Vehicles

Part of our contribution to reducing overall greenhouse gas emissions also involves helping lower emissions from the transportation sector. We've proposed a bold \$76 million initiative in North Carolina, to date the largest investment in electric vehicle infrastructure in the Southeast. This will include nearly 2,500 new charging stations that will lead to a statewide network of fast-charging stations and will help fund the adoption of electric school buses and electric public transportation. Similar pilot programs are being considered by regulators in South Carolina (\$10 million), Indiana (\$10 million), Ohio (\$16 million) and Kentucky (\$3 million). We also expect to have installed more than 500 charging stations in Florida by 2022. Duke Energy is also adopting electric vehicles into its fleet, having acquired roughly 600 vehicles thus far. Learn more about the benefits of electric vehicles.

New Technologies

To get to net-zero carbon emissions, while keeping energy affordable and reliable, new technologies that are economically competitive at commercial scale are necessary. Technologies such as CCUS, longer-duration (up to seasonal) energy storage, new nuclear technologies, and yet-to-be-imagined discoveries, as well as innovative use of greener fuels such as renewable natural gas and hydrogen will be important. To take advantage of these opportunities, we are supporting policies that will advance new technologies and investing in research and development for these important innovations, as discussed on page <u>5</u>.

DUKE ENERGY CLIMATE REPORT

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Mar 18 2021

Aar 08 2021

Metrics and Targets

Greenhouse gases (GHG) emitted by Duke Energy facilities include carbon dioxide (CO_2) , methane (CH_4) , nitrous oxide (N_2O) and sulfur hexafluoride (SF_6) . The burning of fossil fuels to generate electricity is by far the primary source of Duke Energy's GHG emissions, producing emissions of CO_2 , CH_4 and N_2O . The other sources of Duke Energy GHG emissions include CH_4 emissions from natural gas distribution operations, and emissions of SF_6 , an insulating gas used in high-voltage electric transmission and distribution switchgear equipment.

As of year-end 2019, Duke Energy has reduced CO_2 emissions 39 percent from electricity generation since 2005, ahead of the industry average of 33 percent.¹³ In 2019, we accelerated our carbon reduction goal from 40 percent to more than 50 percent by 2030. We also added a longer-term goal of achieving net-zero carbon emissions by 2050. Progress toward our CO_2 and other sustainability goals will continue to be updated on an annual basis in our <u>Sustainability Report</u>.

In the following tables, we adhere to the World Resources Institute/World Business Council for Sustainable Development Greenhouse Gas Corporate Protocol Standard, which classifies a company's GHG emissions into three "scopes." Scope 1 emissions are direct emissions from owned or controlled sources. Scope 2 emissions are indirect emissions from the generation of purchased energy (that is consumed by the reporting company). Scope 3 emissions are all indirect emissions (not included in Scope 2) that occur in the value chain of the reporting company.¹⁴

Scope 1 Emissions

Greenhouse Gas Emissions from Electricity Generation (thousand short tons CO₂ equivalent (CO₂e))

	2005	2017	2018	2019	2030 Goal	2050 Goal
CO ₂	153,000	105,000	105,000	93,000	76,500 (At least 50% below 2005)	Net-zero
CH4 ¹⁵	420	230	218	186	_	-
N ₂ O ¹⁶	731	391	369	361	_	_

All data based on ownership share of generating assets as of December 31, 2019.

Methane Emissions from Natural Gas Distribution (thousand short tons CO₂e)

	2016	2017	2018	2019
CH4	184	175	176	185

Sulfur Hexafluoride Emissions from Electric Transmission and Distribution (thousand short tons CO₂e)

	2016	2017	2018	2019
SF ₆	573	536	337	535

 ${\rm SF}_{\rm 6}$ emissions fluctuations are due to maintenance, replacement and storm repair needs.

¹³U.S. Energy Information Administration, *Monthly Energy Review*, March 26, 2020.

¹⁴See <u>https://ghgprotocol.org/sites/default/files/standards_supporting/FAQ.pdf.</u>

¹⁵No goal is established for methane emissions from electricity generation – see methane sidebar.

¹⁶No goal is established for N₂O emissions from electricity generation; emissions of this gas will decline with reductions in fossil fuel use.

Mar 08 2021

Reducing Methane Emissions

Duke Energy has been an industry leader in driving down methane emissions. Since 2001, Duke Energy's Piedmont Natural Gas unit has been a member of EPA's Natural Gas STAR program, which emphasizes best management practices to voluntarily reduce methane emissions and report those reductions. In 2016, all of Duke Energy's gas operations became founding members of EPA's Methane Challenge.

Duke Energy is also monitoring, through its memberships in the Edison Electric Institute (EEI) and the American Gas Association (AGA), the development of the EEI/AGA Natural Gas Sustainability Initiative (NGSI), an initiative that focuses on the measurement and disclosure of methane emissions throughout the entire natural gas supply chain.

To reduce methane emissions and improve the safety and reliability of the natural gas system in Ohio and Kentucky, Duke Energy implemented the Accelerated Main Replacement Program (AMRP) in 2000. The program's purpose was to replace cast iron and bare steel pipelines (and associated services) with plastic or coated steel pipe.¹⁷ The program was completed in Kentucky in 2010 and in Ohio in 2015. Piedmont Natural

Gas had already completed a similar program when it merged with Duke Energy in 2016. We also recently completed an accelerated service line replacement program in Kentucky in which approximately 30,000 service lines were replaced. In total, Duke Energy's Natural Gas Business Unit has replaced 1,454 miles of cast iron pipe on its distribution system with either plastic or cathodically protected steel.

It should be noted that the methane emissions we report above (a total of less than half of one percent (0.5%) of our CO₂ emissions from electricity generation, on a CO₂ equivalent basis) are, as required by EPA, based on EPA emissions factors. For emissions from electricity generation, EPA emission factors are applied to the amounts of the various fossil fuels we combust. For emissions from our natural gas distribution system, methane emissions are calculated by applying EPA emission factors (for different pipe materials) to the miles of natural gas pipelines we operate, and to the number of services. We also quantify leaks based on leak survey data. Given this, as our natural gas distribution system expands, emissions (all other things being equal) will tend to increase. We are carefully evaluating our sources of methane emissions and potential avenues to reduce them further.

¹⁷In natural gas parlance, "service" means the service pipe that carries gas from the main pipe to the customer's meter.

Scope 2 and 3 Emissions

In 2019, Duke Energy reported to CDP (formerly known as the Carbon Disclosure Project) 25,600 tons of Scope 2 CO_2 equivalent emissions for 2018. These are estimated from power purchases for Duke Energy facilities that are not served by Duke Energy itself.

Category	Thousand short tons CO ₂ e
Fuel and energy-related activities (not reported in Scope 1 or 2). This is an estimate of CO_2 emissions associated with electricity Duke Energy purchased for resale.	11,122
Use of sold products. These are CO_2 emissions from the use of natural gas that Duke Energy delivers to its end-use customers.	19,811

In 2019, Duke Energy reported to CDP the following categories of Scope 3 CO₂ equivalent emissions for 2018:



Net-Zero Scenario Analysis

The following analysis examines a scenario, including sensitivities, for achieving our net-zero CO_2 emissions goal by midcentury, along with the potential impacts on the generation portfolio of our regulated electric utilities. This analysis was conducted using the same industry-standard expansion planning and hourly production cost modeling tools that we use for integrated resource planning. The analysis, however, did not include transmission and distribution modeling that would be required to assess cost and technical feasibility of interconnecting such large quantities of renewables with operational feasibility.

It should be emphasized that the scenario analysis presented is intended only to provide an enterprisewide directional illustration of the impact of changes in the generation fleet. The results presented are indicative of potential options to meet Duke Energy's targets but do not represent specific **utility resource plans and will change over time as new information becomes available**. We will work collaboratively with stakeholders and regulators in the states we serve as we develop future resource plans pursuant to regulatory requirements.

Key Assumptions and Considerations

Any analysis that goes out three decades includes numerous uncertainties and assumptions. Because it is based on currently available technology and cost information, the company's IRP process provides a relatively more certain view through 2030. Projecting beyond that time frame requires assumptions for how technology, electricity demand and costs may evolve several decades in the future. To follow the spirit of the IRP process in the modeling from 2030 to 2050, the technologies considered were limited to those in which we have reasonably high confidence in their likely commercial availability and in current projections of their costs. With those caveats, our net-zero scenario analysis makes the following assumptions:

	NET-ZERO SCENARIO ASSUMPTIONS
System Load	Average annual increase of 0.46 percent from 2020 to 2050. This is based on an EPRI study done for the Carolinas that assumes significant adoption of energy efficiency measures in buildings and industry, resulting in flat electricity demand through 2050 (offsetting all load growth due to new customers). ¹⁸ On top of this, the study assumes significant transportation electrification, resulting in the 0.46 percent per year load growth we assume here. While this study was done for the Carolinas, similar adjustments in the load forecast were applied to all our jurisdictions.
Existing Nuclear	All existing nuclear capacity is relicensed and authorized to operate for an additional 20 years (for a total operating life of 80 years). Existing nuclear generation is assumed to be capable of reducing output by up to 20 percent to aid in balancing generation and load.
Accelerated Coal Retirements	All coal units in the Carolinas, except those that have been or are being modified to run fully or partially on natural gas, are retired by 2030. All remaining coal units except the Edwardsport Integrated Gasification Combined Cycle plant are retired by 2040. Edwardsport is retired by 2045. For the net-zero carbon scenario, Cliffside 6 was assumed to operate exclusively on natural gas by 2030, until its retirement in 2048. Note that these are modeling assumptions and do not necessarily match retirement dates filed in regulatory proceedings. Future resource plans will be developed working collaboratively with stakeholders and regulators in the states we serve, pursuant to regulatory requirements.
Natural Gas Assets	To test the economics of the model, all natural gas combined-cycle units built in the 2020s are assumed to have a 20-year book life. Beyond 2030, all natural gas additions are assumed to be combustion turbines ("peakers") only. We also explored a sensitivity where no new natural gas electricity generation was added.
Markets	No market Regional Transmission Organization energy purchases or purchased power agreements are assumed beyond 2035 due to the uncertainties of how the markets and other utilities' resource plans will evolve that far into the future. This is a conservative approach to ensure that customer load is served. Actual plans would consider market purchases if they were the most economical.
Fuel Prices	Coal prices are projected to continue to remain low into the future, but a slightly higher, though still relatively low, natural gas price trajectory in the near- to mid-term continues to support gas as baseload or intermediate generation ahead of coal. Nuclear prices remain low relative to both coal and gas and support continued operation of Duke Energy's existing nuclear fleet.

¹⁸Electric Power Research Institute, "North Carolina Efficient Electrification Study: Task 1 Energy System Assessment," November 2019.

Technology Prices ¹⁹	 Combustion Turbines – \$550/kilowatt (kW) (represents multi-unit site)
(approximate overnight capital costs)	 Combined Cycle – \$650/kW (represents 2x1 advanced class)
	Small Modular Nuclear Reactor – \$5,500/kW
	 Natural gas combined cycle (NGCC) with CCUS – \$2,000/kW (cost is at the fence line; cost to transport CO₂, which is highly dependent on location, as well as the cost of injection, would be additional)
	 Solar – \$900/kW
	 Wind – \$1,300/kW (on shore) to \$2,400/kW (offshore)
	 Pumped storage hydro – \$2,500/kW (existing reservoirs)
	 Lithium-ion storage – \$900/kW (4 hour) to \$1,600/kW (8 hour) – consistent with the NREL annual technology baseline and excludes allowance for degradation, limits of depth of discharge, and owners and interconnection costs
	NOTES:
	Interconnection costs for these technologies were not explicitly considered in the scenario analysis. This assumption yields an optimistic view of the costs of adding large quantities of renewables to the grid. Typical costs of transmission access for various types of renewables are shown below as a percentage of total project costs:
	 Conventional generation – 10 percent (constrained area)
	 Solar – 20 percent (bundled solar in constrained area)
	 Wind (offshore and out of state) – 25-50 percent (location-dependent)
	 Batteries – 20 percent (depends on location and primary use)
	Transmission access cost is expected to increase with greater amounts of renewables and will be dependent on location, type, amount and existing infrastructure. Due to uncertainty in these factors, projections of future transmission access costs were not included.

¹⁹These prices are in line with NREL's Annual Technology Baseline: <u>https://atb.nrel.gov</u>. Escalations are based on the Energy Information Administration's Annual Energy Outlook 2019.

Battery Storage	Batteries are assumed to be available to store energy for four, six or eight hours. It is also assumed that there are no limitations on the supply chain for batteries and that they can be interconnected in a timely manner and without cost constraints. To ensure safe operation of batteries and account for degradation throughout the life of the assets, there is an assumed overbuild of batteries to provide the proper safety margin in the depth of discharge; this overbuild was incorporated in the analysis but was not reflected in the "technology prices" section above for purposes of comparability with publicly available information. Seasonal battery storage and associated cost information is not currently available and its development is uncertain, so it is not assumed in the model. We view ongoing research into battery storage as vital to reducing costs and enabling longer-duration storage, but because the timing of technological breakthroughs for battery storage remains unclear (as do the costs of battery storage after
	the breakthroughs), we did not speculate on the timing or cost impact of a breakthrough in battery technology in this limited analysis.
Technology Innovation	ZELFRs are assumed to be commercially available for deployment in the mid-2030s. ZELFR is a generic placeholder in this modeling effort for a gap in commercially available utility-scale technology to complement very high penetration of renewables. ZELFRs must be flexible to respond to dynamic changes in both load and renewable generation, and must also be capable of sustained generation over long durations to handle severe weather events like "polar vortex" cold events and long-duration generation outages such as those that can occur after hurricanes.
	For purposes of cost analysis, costs for ZELFRs were based on small modular nuclear reactors as the most feasible option given that 2027 is the expected commercial operation date for the first NuScale SMR reactor and that we have reasonable confidence in the current cost data. For an operational assessment (not based on cost), we also analyzed a generation mix that assumes ZELFRs are combined-cycle power plants that use natural gas, hydrogen or biofuels (such as renewable natural gas), with CCUS as appropriate. In reality, a combination of several technologies will likely be utilized.

Net-Zero Scenario Analysis Results

As discussed above, this analysis was conducted using the same industry-standard expansion planning and hourly production cost modeling tools that we use for integrated resource planning, and assumes normal weather. It is important to note that the following results are solely illustrative and reflect only one of the possible generation mixes that would result in net-zero emissions by 2050. We have projected ZELFRs in two ways: (1) with ZELFRs being relatively less-flexible resources, such as a small modular nuclear reactor (SMR), and (2) with ZELFRs being flexible and easily dispatchable (like a NGCC with CCUS). This analysis assumes ZELFRs are half SMRs and half NGCC with CCUS. (It should be noted that NGCC with CCS could also be biofuels or hydrogen.)

These results do not represent definitive utility resource plans. Each utility's resource plan will be developed in conjunction with regulators, policymakers and stakeholders, and will require regulatory approval under our legal mandate to provide affordable and reliable energy.

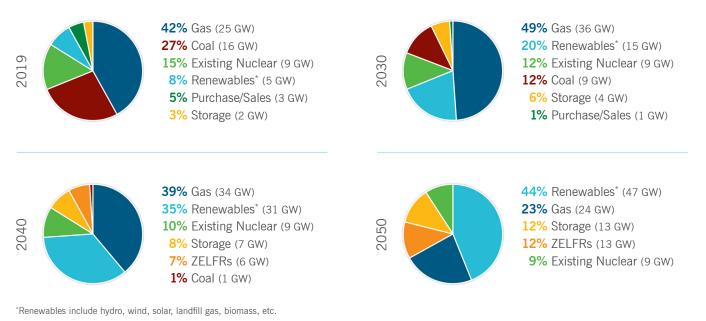
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The following charts show the company's 2019 actual regulated electric utility capacity mix and potential 2030, 2040 and 2050 capacity mixes (in GW) under a net-zero carbon scenario analysis.

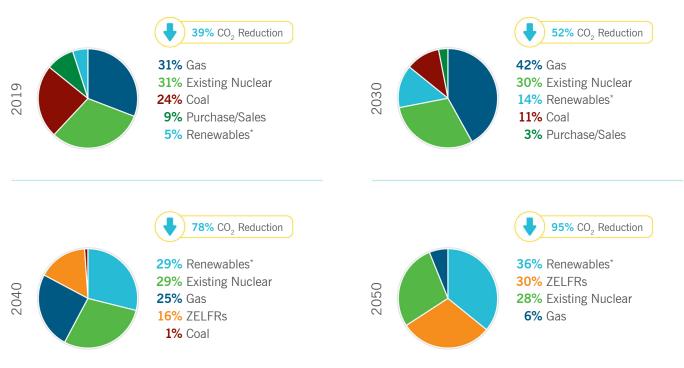
Duke Energy Regulated Generating Capacity, GW



The following charts show the company's 2019 actual regulated electric utility generation (energy) mix and

potential 2030, 2040 and 2050 generation mixes (megawatt-hours) under a net-zero carbon scenario analysis.

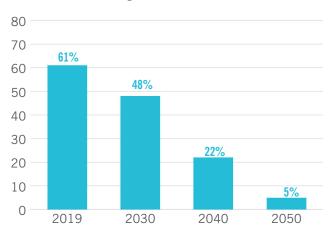
Duke Energy Regulated Generation, MWh



*Renewables include hydro, wind, solar, landfill gas, biomass, etc.



The following chart shows a projection of how Duke Energy's CO_2 emissions will decline as our electric generating fleet transforms.



Percent of 2005 CO₂ Emissions

Key Insights

We are on track to achieve our 2030 goal of reducing CO_2 emissions from electricity generation by at least 50 percent from the 2005 baseline. The trajectory to make very deep reductions in CO_2 emissions by 2050 in line with our net-zero goal will depend on the availability of advanced low- and no-carbon technologies. Some emissions may be more cost-effectively addressed through the purchase of offsets; we project that would be about 8 million

tons in 2050 (approximately 5 percent of our 2005 emissions).²⁰ Other key insights from the extensive modeling that was conducted to analyze this scenario include:

- Renewables must be diversified and balanced with energy storage. Renewables will play a key role in meeting the need for carbon-free energy. Diversity of renewables helps to reduce the need for storage, but even with a balanced portfolio of wind, solar and energy storage, further additions of renewables above a certain point - which varies among each of our modeled jurisdictions - have diminishing value and ultimately become uneconomic for carbon reduction. For example, for solar, this is due to the inability to shift the timing of renewable generation (which peaks midday) to match earlyand late-hour peak energy demand. See page 29 for external studies that have reached a similar conclusion, including a study of the impacts of integrating increasing amounts of renewables into Duke Energy's Carolinas territories performed by the National Renewable Energy Laboratory.
- Maintaining existing nuclear is critical. Achieving net-zero CO₂ emissions by 2050 requires our existing nuclear fleet to be granted subsequent license renewals. The first Duke Energy nuclear power plants will approach the end of their current operating licenses in the early 2030s.

²⁰Carbon offsets are the reduction of greenhouse gas emissions to the atmosphere. These can include modified agricultural practices, tree planting and reductions in other sectors. The market for carbon offsets decades in the future is very uncertain, but given its likely importance for the power sector and other large energy producers/ users, we hope and believe that a robust market will emerge. We are monitoring negotiations under Article 6 of the Paris Agreement, where rules for carbon trading and the use of offsets will be developed.

- ZELFRs will need to be installed by 2035. In order to achieve our net-zero goal, ZELFRs are needed starting in 2035 to retire older fossil generation, maintain grid reliability and balance the intermittency of renewables.²¹ These technologies need to be developed and refined over the next 10 years so that we can confidently plan to use these to serve our customers reliably while achieving net-zero carbon emissions. In the net-zero carbon scenario, ZELFRs make up 12 percent of capacity and supply 30 percent of energy due to their ability to operate at full output over extended periods regardless of weather conditions. The need for dispatchable net-zero carbon resources is driven by the fact that renewable resources are not wellcorrelated with the winter load shape that drives resource planning requirements for much of the Duke Energy fleet; in addition, the current cost and scale of energy storage technology makes backing up very large amounts of renewables with storage over long durations impractical. If ZELFRs become available and economically feasible prior to 2035, this would provide opportunities to accelerate coal retirements and achieve additional carbon reductions at a relatively low cost.
- Unprecedented, sustained pace of capacity additions will be needed. The net-zero carbon scenario requires Duke Energy to add new capacity at a rate double that achieved nationwide during the highest-growth decade in U.S. history, and more than double the rate at which Duke Energy added capacity over the past three decades. Moderate load growth combined with coal and gas retirements, along with the intermittency of renewables and the need for storage capacity, are key drivers for these unprecedented capacity additions. Replacing traditional electric generating capacity with renewables plus storage is not a one-for-one proposition. Due to the intermittency of renewables, significantly more capacity must be built, even with storage availability, to provide the same level of reliable electricity as a fossil plant.²² This build rate will be challenging from many aspects, including

permitting and regulatory approvals, labor, supply chain and interconnection needs.

Benefits of natural gas to facilitate the retirement of coal and balance renewables. Natural gas continues to play a critical role in achieving our 2030 and 2050 carbon reduction goals. Deploying low-cost natural gas helps speed the transition from coal and balance the intermittent nature of renewables. Even in 2050, natural gas capacity needs to remain on the system to maintain reliability, especially during times of peak electricity demand. However, the mission of the gas fleet will change from supplying 24/7 power today to a peaking and demand-balancing function by 2050. This remaining gas generation is projected to represent 5 percent of 2005 emissions, netted to zero through carbon offset purchases.

We conducted a sensitivity analysis that assumed our regulated electric utilities are not allowed to build any additional natural gas generation. This constraint would make maintaining reliable and affordable electricity very challenging, while providing a modest 5 percent decrease in cumulative CO_2 emissions between 2020 and 2050.

This "no new gas" sensitivity presents significant challenges, some of which may be very difficult to overcome, including interconnection and operational and supply chain issues associated with unprecedented additions of energy storage over a very short period of time, as well as regulatory approvals, permitting, construction and greater costs to customers. For example, Duke Energy alone would need to add more than 15,000 MW of energy storage by 2030, more than 17 times the entire battery storage capacity (899 MW) of the entire United States today.23 Our analysis shows that the incremental cost would be three to four times that of the net-zero scenario that includes gas, and would require the construction and operation of enormous amounts of renewables and energy storage. And this analysis

²¹This capacity is especially important in our Midwest and Florida jurisdictions as they do not currently have nuclear capacity.

²²See, for example, University of North Carolina: "Measuring Renewable Energy as Baseload Power," March 2018. <u>https://kenaninstitute.unc.edu/publication/measuring-renewable-energy-as-baseload-power/</u>. To equal 1 MW of natural gas combined-cycle generation, the company would need to add 5 MW of solar with 4 MW of four-hour lithium-ion batteries. The true costs of renewables are therefore substantially higher than the levelized cost of electricity reported in many studies that do not include the cost of backup power.

²³EIA, U.S. Utility-scale battery storage power capacity to grow substantially by 2023, July 2019. https://www.eia.gov/todayinenergy/detail.php?id=40072.

does not include the substantial transmission and distribution upgrade costs and permitting challenges necessary to enable the increased interconnection of energy storage and renewables. Aside from the implications of the cost impacts to our customers, especially low-income customers and energy-intensive businesses, the dependence of the "no new gas" sensitivity on a rapid addition of energy storage increases the possibility that existing resources would need to be relied upon for a longer time frame than anticipated.

Before considering the "no new gas" sensitivity as a serious alternative, it would be necessary to perform more extensive analysis to address the fact that production cost models have "perfect foresight" (with respect to weather, unplanned generation outages, etc.), while in the real world, operators do not know when such changes will occur and may not have the energy storage in the needed state (of charge or discharge) to manage actual conditions. Based on our historical experience with pumped-hydro energy storage, we understand that relying more heavily on renewables and limited-duration energy storage for capacity (the role dispatchable resources have traditionally played) will increase the complexity of planning and operating the system. Further, highly technical analysis is needed to ensure that the "perfect foresight" assumption is not masking potential system reliability challenges that would need to be addressed.

 Focused efforts will be required to improve forecasting and portfolio balancing capabilities. The challenges of balancing load with increasing levels of renewable generation will warrant exploration of opportunities to reduce renewable forecast error and improve our ability to react. Improving the accuracy of renewable generation forecasts will reduce the need for backup requirements (either storage or quickly ramping natural gas). Opportunities to improve forecast accuracy could include advanced sensing/ monitoring equipment as well as continued advancements in wind and irradiation forecasting techniques. In order to react more quickly, we are focused on improving the flexibility of our generation fleet, which can be achieved by installing more flexible and dispatchable resources; we are also reviewing potential market opportunities to better enable our grid to accommodate more intermittent, carbon-free resources. We are also exploring opportunities to add flexibility on the demand side through innovative customer programs and rate design.

Third-Party Renewables Studies

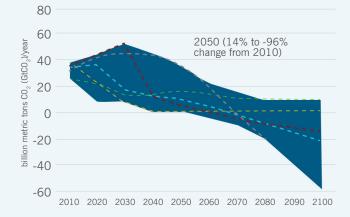
Several recent studies have examined the potential penetration of renewables in the power system. These studies, including one performed by DOE's National Renewable Energy Laboratory (NREL) of Duke Energy's Carolinas system, all conclude that further additions of renewables above 40%-50% of energy served have diminishing value and become increasingly uneconomic for carbon reduction. The studies also find that diversity of renewable resources (wind and solar) enables larger shares of carbon-free generation. Several of these studies are listed below.

- MIT: "Deep Decarbonization of the U.S. Electricity Sector: Is there a Role for Nuclear Power?" September 2019. <u>https://globalchange.mit.edu/publication/17323</u>
- NREL: "Duke Energy Carolinas and Progress: Zero-Emission Resource Integration Study," December 2019.
 www.nrel.gov/docs/fy20osti/74337.pdf
- MIT: "Storage Requirements and Costs of Shaping Renewable Energy Toward Grid Decarbonization," Joule, November 2019. <u>https://www.sciencedirect.com/science/</u> <u>article/abs/pii/S2542435119303009</u>.

Duke Energy Carbon Reduction Goals and 1.5 and 2 Degree Celsius Global Emissions Scenarios

Many stakeholders are interested in companies' analyses of scenarios that will limit global average warming to 2 degrees Celsius or lower. To inform our view of scenarios and how these relate to our climate goals, Duke Energy has been engaged for nearly two years with the Electric Power Research Institute (EPRI) in a project evaluating scientific understanding of the relationship between company scenarios and global climate goals. The purpose of the project is to develop a strong technical foundation for company analysis and decision-making on scenarios and climate goals. Among other things, the project has assessed the relevant science through a number of studies and derived insights for companies and stakeholders.²⁴ We find, upon a review of EPRI's conclusions, that the scenario we analyze in this report to achieve our net-zero climate goal is consistent with scenarios limiting global average temperature increase to less than 2 degrees Celsius, and is also consistent with scenarios that limit global average temperature increase to less than 1.5 degrees Celsius.

The EPRI studies find, among other things, that there are many emissions pathways consistent with limiting warming to any particular global average temperature due to uncertainty about future economic conditions, technology advances, energy consumption, other emissions and elements that affect climate change, physical system dynamics, and policy action. For example, the figure above (figure ES-2 from EPRI's 2018 study) shows the range for 408 global emissions pathways derived from peer-reviewed literature that are consistent with limiting warming to less than 2 degrees Celsius.



Global net CO_2 emissions pathway range for pathways consistent with limiting global average temperature to less than 2C. Range for 408 scenarios (shaded area) and illustrative select scenarios (dotted lines) shown. Source: Rose and Scott (2018)

Similar to global economy-wide emissions outcomes, EPRI also concludes that "large ranges of global electricity carbon dioxide (CO_2) emissions pathways and budgets are consistent with limiting warming to 2°C." In addition, the EPRI studies find that the global and sectoral results provide only partial representations of uncertainty, with key uncertainties relevant to individual companies absent (e.g., uncertainty about policy design details and companyspecific circumstances).

Importantly, the EPRI study goes on to compare this literature-derived range of pathways with single pathways used by the Science-Based Targets initiative (SBTi) and the United Nations Environment Programme's Finance Initiative.²⁵ The study concludes that while these single pathways lie within the ranges of the pathways described above, they do not capture the "uncertainty evident in the literature regarding global emissions pathways consistent with limiting warming to 2°C." The factors behind the different pathways are uncertainties relevant to companies and important to consider, in addition to the uncertainties absent (e.g., alternative policy designs).

²⁵Ibid 2018, Appendix A.

²⁴Rose, S.K., M. Scott, 2018. Grounding Decisions: A Scientific Foundation for Companies Considering Global Climate Scenarios and Greenhouse Gas Goals. EPRI. Palo Alto, CA. 3002014510; Rose, S.K., M. Scott, 2020. Review of 1.5 °C and Other Newer Global Emissions Scenarios: Insights for Company and Financial Climate Low-Carbon Transition Risk Assessment and Greenhouse Gas Goal Setting, EPRI, Palo Alto, CA. 3002018053.

Given that Duke Energy's net-zero by 2050 target is within the range of the scenarios shown in the EPRI analyses, the company believes that the scenario analyzed is consistent with limiting global warming to 2 degrees Celsius. Further, we believe the target is also consistent with limiting warming to 1.5 degrees Celsius according to EPRI's 2020 study. Note, however, that the EPRI analyses find that global scenarios have limited value as benchmarks for assessing company strategies for a variety of reasons, including that the aggregate scenarios do not represent the unique circumstances, uncertainties and risks relevant to individual companies. Furthermore, given that future markets, technology and policy are uncertain, as noted in the net-zero scenario analysis above, exactly how we will achieve our net-zero goal is uncertain; the analysis shown in this report is illustrative of pathways we might take.

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Looking Ahead

The actual pathway that Duke Energy takes to achieve net-zero carbon emissions by 2050 will be based on evolving technologies, costs, demand for electricity, public policy, stakeholder input and regulatory approvals. During the 2020s, significant innovation and technological advancement will be critical to ensure we have the viable technology options needed by the 2030s to achieve a netzero carbon future by the 2050s. As we have done for more than a century, we will collaborate with regulators, policymakers and other stakeholders to evaluate the best options to meet the needs of our customers, while balancing affordability, reliability and sustainability.

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;

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- 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 impact of the COVID-19 pandemic;
- 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 Duke Energy and its registered subsidiaries may be different from what is expected;
- Declines in the market prices of equity and fixedincome 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 Duke Energy's 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;

Mar 48 2021

- 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 Duke Energy's 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 Duke Energy expressly disclaims an obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.



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